

BOOK 2678

INDEX DIAGRAM.

Township 7 South, Range 19 East
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BOOK "Z"

BOOK "Z"

Partial Subdivision of Tp. 7 S. Rg. 19 E.

Chains.

Survey commenced October 19, 1913 and executed with a W. & L. 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 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 located near the cor. of secs. 23; 24, 25, and 26, Tp. 7 S. Rg. 19 E.; latitude 32° 47' 44" N.; longitude 110° 21' 55" W.; I set off 32° 47½' N. on the lat. arc; 10° 00' S. on the decl. arc; and at 4h. 30m. 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 19, 1913.

October 20¹⁹¹³ At 5h. 38m. 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 19, on which the meridian coincides with the mark determined by the solar.

At 7h. 30m. a.m., l.m.t., I set off 32° 47½' N. on the lat. arc; 10° 13½' 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 coincides with the meridian established by the Polaris observation.

The solar apparatus, by p.m., and a.m., observations defines positions for meridians which coincide with 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.

I commence at the cor. of secs. 1, 2, 35 and 36, on the S. bdy. of the Tp. recently estab. by me as described in Book "Z",

Thence I run

N. 0° 01' W., bet. secs. 35 and 36

Along rough broken W. slope through dense brush.

10:90 Cross wash 12 lks. wide course W.

40:00 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for ¼ sec. cor., marked on brass cap ¼S35 in W. S36 in E. and 1913 in S. half; from which

A mesquite 10 ins. diam., bears N. 82° E., 74 lks. dist., marked ¼S36BT.

A mesquite 4 ins. diam., bears S. 67° W., 34 lks. dist., marked ¼S35BT.

41:10 Top ridge bears N. W. and S. E.

51:30 Top ridge bears N. E. and S. W. descend along N. W. slope.

80:00 Set an iron post 3 ft. long, 2 ins. diam., 24 ins. in the ground for cor. of secs. 25, 26, 35 and 36, marked on brass cap

T7SR19E in N. and 1913 in S. half;

S26 in N. W.

S25 in N. E.

S36 in S. E.

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S35 in S. W. quadrant; from which

A pinon 8 ins. diam., bears S. 16° E. 252
lks. dist., marked T7SR19ES36BT.A pinon 13 ins. diam., bears S. $81\frac{1}{2}^{\circ}$ W. 190
lks. dist., marked T7SR19ES35BT.No other trees available. 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.

Timber, scattering oak, cedar and pinon.

Undergrowth, oak, mesquite and catclaw.

NOTE: ~~October 20~~ At this cor. I set off $10^{\circ} 19'$ S. on the decl.
arc; and observe the sun on the meridian at noon, the
resulting lat. is $32^{\circ} 47'$ N.

East, on a random line bet. secs. 25 and 36

40.00 Set temp. $\frac{1}{4}$ sec. cor.80.10 Intersect E. bdy. of Tp., 3 lks. S. of the cor. of secs.
25, 30, 31 and 36, recently estab. by me as described in Book "Z"

Thence I run

S. $89^{\circ} 59'$ W., on a true line, bet. secs. 25 and 36.

Over broken land through dense brush.

5.00 Cross wash, 20 lks. wide course N. E.

30.80 Cross wash, 40 lks. wide course N. E. and ascend.

40.05 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 N.
and S36¹⁹¹³ in S. half; and raise a mound of stone 2 ft. base
 $1\frac{1}{2}$ ft. high; N. of cor. Pits impracticable.

70.80 Ridge bears N. E. and S. W. descend.

80.10 The cor. of secs. 25, 26, 35 and 36, hereinbefore described.

Land, mountainous.

Soil, rocky; 4th. rate.

No timber.

Undergrowth, oak, catclaw, mesquite and blackbrush.

October 20, 1913.

October 21¹⁹¹³ At 8h. 00m., a.m., l.m.t., I set off $32^{\circ} 47'$
N. on the lat. arc; $10^{\circ} 36'$ S. on the decl. arc; and
determine a meridian with the solar at the cor. of secs.
25, 26, 35 and 36, hereinbefore described

Thence I run

N. $0^{\circ} 01'$ W., bet. secs. 25 and 26.

Descending along W. slope of mountain through dense brush.

4.50 Cross fence, bears N. E. and S. W.

10.25 Cross wash, 18 lks. wide, course W.

15.30 Cross wash, 20 lks. wide, course W.

26.80 Cross fence, bears E. and W.

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 $\frac{1}{4}$ S26 in W.
S25 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.

45.75 A point from which

Allaire's house bears S. $64^{\circ} 00'$ W.barn bears S. $64^{\circ} 00'$ W.Shed bears S. $62^{\circ} 30'$ W.47.00 Ridge bears N. E. and S. W. ^{W. B. Bratton} House bears N. $36^{\circ} 30'$ W.80.00 Set an iron post 3 ft. long, 2 ins. diam., 24 ins. in the
ground for cor. of secs. 23, 24, 25 and 26, marked on
brass cap

T7SR19E in N. and

1913 in S. half;

S23 in N. W.

S24 in N. E.

S25 in S. E. and

S26 in S. W. quadrant; and raise a mound of stone 2
ft. base $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.

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Chains.

Land, mountainous.
Soil, rocky; 4th. rate.
Timber, scattering oak and pinon.
Undergrowth, oak and blackbrush.

NOTE: October 21: At this cor. I set off $10^{\circ} 40\frac{1}{2}'$ S. on the decl. arc; and observe the sun on the meridian at noon; the resulting lat. is $32^{\circ} 47\frac{1}{2}'$ N.

N. $89^{\circ} 59'$ E., on a random line, bet. secs. 24 and 25
40.00 Set temp. $\frac{1}{4}$ sec. cor.,
79.98 Intersect E. bdy. of Tp., 7 lks. N. of the cor. of secs. 19, 24, 25 and 30, recently estab. by me as described in Book "Z"
Thence I run,
N. $89^{\circ} 58'$ W., on a true line, bet. secs. 24 and 25.
Ascend S. E. slope through dense brush.
9.10 Ridge bears N. E. and S. W. descend.
27.30 Cross wash 30 lks. wide course N. E. ascend.
35.90 Ridge bears N. E. and S. W. descend.
39.99 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 N. and S25 1913 in S. half; from which
An oak 4 ins. diam., bears N. 24° E. 10 lks. dist., marked $\frac{1}{4}$ S24BT
An oak 4 ins. diam., bears S. 6° W. 11 lks. dist., marked $\frac{1}{4}$ S25BT.
47.50 Cross wash 40 lks. wide course N. E. ascend.
55.25 Ridge bears N. E. and S. W. bluff on W. 90 ft. high. descend.
79.98 The cor. of secs. 23, 24, 25 and 26, hereinbefore described
Land, mountainous.
Soil, rocky; 4th. rate.
Timber, scattering oak.
Undergrowth, oak, catclaw and blackbrush.

October 21, 1913.

October 27¹⁹¹³ At 8h. 00m. a.m., l.m.t., I set off $32^{\circ} 47\frac{1}{2}'$ N. on the lat. arc; $12^{\circ} 41\frac{1}{2}'$ S. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 23, 24, 25 and 26, hereinbefore described,
Thence I run
N. $0^{\circ} 01'$ W., bet. secs. 23 and 24.
Descending along N. W. slope of mountain ridge through dense brush.
1.40 Spur bears N. W. and S. E.
14.30 Cross wash 35 lks. wide course N. W. and over nearly level land.
40.00 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap $\frac{1}{4}$ S23 in W. S24 in E. and 1913 in S. half; from which
An oak 8 ins. diam., bears N. 54° W. 29 lks. dist., marked $\frac{1}{4}$ S23BT.
An oak 4 ins. diam., bears N. 78° E. 18 lks. dist., marked $\frac{1}{4}$ S24BT.
47.30 Cross Wash 100 lks. wide course N. E.
56.40 Cross road bears N. E. and S. W.
64.70 Cross wash 70 lks. wide course E. ascend.
75.90 Ridge bears E. and W. descend.
80.00 Set an iron post 3 ft. long, 2 ins. diam., 24 ins. in the ground for cor. of secs. 13, 14, 23 and 24, marked on brass cap
T7SR19E in N. and
1913 in S. half;
S14 in N. W.
S13 in N. E.
S24 in S. E. and
S23 in S. W. quadrant; and raise a mound of stone 2

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ft. base $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
Land, mountainous and level.
Soil, on level land, sandy loam, dry, medium texture;
1st. rate. On slopes, rocky; 4th. rate.
Timber, oak.
Undergrowth, oak, catclaw, mesquite and blackbrush.

- S. $89^{\circ} 58'$ E. on a random line bet. secs. 13 and 24.
40.00 Set temp. $\frac{1}{4}$ sec. cor.
79.96 Intersect E. bdy. of Tp. 7 lks. S. of the cor. of secs.
13, 18, 19 and 24, recently reestab. by me as described in Book "Z"
Thence I run
S. $89^{\circ} 59'$ W., on a true line, bet. secs. 13 and 24.
Ascend through dense brush.
5.10 Ridge bears N. and S. descend.
27.00 Ridge bears N. W. and S. E.
39.98 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 $\frac{1}{4}$ S13 in N.
and S24 1913 in S. half; and raise a mound of stone 2 ft.
base $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.
47.10 Cross road bears N. E. and S. W. and over level land.
49.40 Cross wash 100 lks. wide course N. E.
70.50 Cross wash 10 lks. wide course S. E. and ascend.
79.96 The cor. of secs. 13, 14, 23 and 24. hereinbefore described
Land, level and mountainous.
Soil, on level land, sandy loam, dry, medium texture;
1st. rate. On slopes, rocky; 4th. rate.
Timber, scattering juniper and oak. Sycamores along wash.
Undergrowth, oak, catclaw, mesquite and blackbrush.
NOTE: October 27: At this cor. I set off $12^{\circ} 46'$ S. on the
decl. arc; and observe the sun on the meridian at noon;
the resulting lat. is $32^{\circ} 48\frac{1}{2}'$ N.

- N. $0^{\circ} 01'$ W., bet. secs. 13 and 14.
Along general east slope of mountains through dense brush
1.20 Cross wash, 10 lks. wide, course E.
8.50 Cross wash, 12 lks. wide, course S. E.
11.40 Cross wash, 15 lks. wide, course S. E.
35.00 Cross wash, 10 lks. wide, course S. E.
39.00 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the
ground for witness ^{COR. 701} $\frac{1}{4}$ sec. cor., marked on brass cap WC $\frac{1}{4}$
in N. and 1913 in S. half, S13 in S. E. and S14 in S. W.
quadrant; from which
A mesquite 6 ins. diam., bears S. 25° E. 29
lks. dist., marked WC $\frac{1}{4}$ S13BT.
A mesquite 8 ins. diam., bears N. 71° W. 68
lks. dist., marked WC $\frac{1}{4}$ S14BT.
40.00 Point for $\frac{1}{4}$ sec. cor. falls in wash 10 lks. wide course
S. W.
46.40 Cross same wash 20 lks. wide course S. E.
80.00 Set an iron post 3 ft. long, 2 ins. diam., 24 ins. in the
ground for cor. of secs. 11, 12, 13 and 14, marked on
brass cap
T7SR19E in N. and
1913 in S. half;
S11 in N. W.
S12 in N. E.
S13 in S. E. and
S14 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, catclaw and blackbrush and mesquite.

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Chains.

October 29; 1913;
 N. 89° 59' E. on a random line bet. secs. 12 and 13
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 80.26 Intersect E. bdy. of Tp. 5 lks. N. 0° 15' W. of the ^{old} cor. of secs. 7, 12, 13 and 18, later reestab. by me, as hereinafter desc.
 Thence I run
 N. 89° 59' W. on a true line bet. secs. 12 and 13.
 Over rolling hilly land, through dense bru sh.
 1.50 Top of low ridge bears N. W. and S. E.
 21.00 Cross wash 14 lks. wide course S. E.
 40.13 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 $\frac{1}{4}$ S12 in N. and S13 1913 in S. half; and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.
 62.40 Cross wash 20 lks. wide course N. E. ascend.
 80.26 Cor. of secs. 11, 12, 13 and 14, hereinbefore described. Soil, rocky; 4th. rate. Land, hilly and mountainous. Timber, scattering cedar and pinon. Undergrowth, oak, mesquite, catclaw and blackbrush.

October 29, 1913.

1913:
 November 3: At 8h. 00m. a.m., l.m.t., I set off 32° 49 $\frac{1}{2}$ ' N. on the lat. arc; 14° 58 $\frac{1}{2}$ ' S. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 11, 12, 13 and 14, hereinbefore described
 Thence I run
 N. 0° 01' W. bet. secs. 11 and 12.
 Ascend through dense brush.
 4.60 Ridge bears N. E. and S. W. descend.
 9.80 Cross wash 18 lks. wide course N. E. ascend.
 12.50 Ridge bears N. E. and S. W. 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 $\frac{1}{4}$ S11 in W. S12 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.
 63.80 Cross wash 12 lks. wide course N. E. ascend.
 79.00 Ridge bears N. E. and S. W.
 80.00 Set an iron post 3 ft. long, 2 ins. diam., 24 ins. in the ground for cor. of secs. 1, 2, 11 and 12, marked on brass cap
 T7SR19E in N. and 1913 in S. half;
 S2 in N. W.
 S1 in N. E.
 S12 in S. E. and S11 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.
 Timber, a few scattering cedars.
 Undergrowth, oak, catclaw, mesquite and blackbrush.

S. 89° 59' E. on a random line bet. secs. 1 and 12.
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 79.78 Intersect E. bdy. of Tp. 2 lks. S. 0° 10' E. of the cor. of secs. 1, 6, 7 and 12, recently reestab. by me, as hereinafter desc.
 Thence I run
 West on a true line bet. secs. 1 and 12.
 Over rolling land ascending, through dense brush.
 18.50 Cross wash 20 lks. wide course N. E.
 33.30 Cross wash 20 lks. wide course N. E.
 39.89 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 $\frac{1}{4}$ S1 in N. and S12 1913 in S. half; and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.
 60.00 Ascend rough broken E. slope.

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- 79.50 Ridge bears N. E. and S. W. descend.
 79.78 The cor. of secs. 1, 2, 11 and 12. ~~hereinbefore~~ described
 Land, rolling and mountainous.
 Soil, rocky; 4th. rate.
 Timber, a few scattering cedars.
 Undergrowth, catclaw, mesquite and blackbrush.
- Note:* At this cor. I set off $15^{\circ} 03'$ S. on the decl. arc; and observe the sun on the meridian at noon; the resulting lat. is $32^{\circ} 50\frac{1}{2}'$ N.
-
- 19.91 N. $0^{\circ} 01'$ W. bet. secs. 1 and 2, on true line.
 Descend along N. W. slope, through dense brush.
 A point from which
 C. S. Power house bears S. 88 11' E.
 Windmill bears N. 85 53' E.
 T.J. Rex house bears N. 59 43' E.
 windmill bears N. 59 22' E.
- 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 $\frac{1}{4}$ S2 in W. S1 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.
- 47.70 Cross wash 25 lks. wide course N. E.
- 80.04 Intersect N. bdy. of Tp. 145 lks. S. $89^{\circ} 58'$ E. of the reestab. cor. of secs. 1, 2, 35 and 36 ~~hereinafter~~ described the markings on on brass cap, from cor. of 4 secs. to cor. of secs. 35 & 36 only, move mound of stone N. of cor. At point of intersection Set an iron post 3 ft. long, 2 ins. diam., 24 ins. in the ground for closing cor. of secs. 1 and 2, marked on brass cap
 T. 7 S., R. 19 E.
 CC S. of center;
 T6S 19E S35 S36 in N. and
 T7S 1913 in S. and
 R19E in W. half
 S1 in S. E. and
 S2 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, mountainous.
 Soil, rocky; 4th. rate.
 Timber, a few scattering cedars.
 Undergrowth, oak, catclaw, mesquite and blackbrush.

November 3, 1913.

1913

- October 22: At 8h. 00m. a.m., l.m.t., I set off $32^{\circ} 46'$ N. on the lat. arc; $10^{\circ} 57\frac{1}{2}'$ S. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 2, 3, 34 and 35 on the S. bdy. of the Tp. recently established by me, as described in Book "Z." Thence I run, N. $0^{\circ} 01'$ W. bet. secs. 34 and 35.
 Along rough west slope through dense brush.
- 37.20 Ridge bears N. E. and S. W. descend along N. W. slope.
- 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 $\frac{1}{4}$ S34 in W. S35 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.
- 69.41 A point from which.
 Stamp mill bears N. $13^{\circ} 01'$ E.
 Bunk house bears N. $27^{\circ} 30'$ E.
 Bunk house bears N. $29^{\circ} 51'$ E.
- 79.11 Cross road bears N. E. and S. W.
- 79.32 Cross wash 50 lks. wide course N. E. over level land.
- 80.00 Set an iron post 3 ft. long, 2 ins. diam., 24 ins. in the ground for cor. of secs. 26, 27, 34 and 35, marked on brass cap
 T7SR19E in N. and
 1913 in S. half;
 S27 in N. W.

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- S26 in N. E.
 S35 in S. E. and
 S34 in S. W. quadrant; from which
 A hackberry 4 ins. diam., bears N. $36^{\circ} 44'$ W.
 126 lks. dist., marked T7SR19ES27BT
 A sycamore 24 ins. diam., bears N. $25^{\circ} 4'$ E. 159
 lks. dist., marked T7SR19ES26BT.
 A sycamore 22 ins. diam., bears S. $6^{\circ} 50'$ E. 95
 lks. dist., marked T7SR19ES35BT.
 A mesquite 7 ins. diam., bears S. $67^{\circ} 2'$ W. 124
 lks. dist., marked T7SR19ES34BT.

From this cor..

- Stamp mill bears N. 43 48' E.
 Bunk house bears S. 89 27' E
 Bunk house bears N. 87 27' E.

Land, mountainous.

Soil, rocky; 4th. rate.

Timber, scattering oak, with sycamore and hackberry along wash.

Undergrowth, oak, mesquite, catclaw and blackbrush.

Note: At this cor. I set off $11^{\circ} 02'$ S. on the decl. arc; and observe the sun on the meridian at noon; the resulting lat. is $32^{\circ} 47'$ N..

- East on a random line bet. secs. 26 and 35
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 79.90 Intersect N. and S. line 7 lks. N. of the cor. of secs.
 25, 26, 35 and 36. **hereinafter described**
 Thence I run
 N. $89^{\circ} 57'$ W. on a true line bet. secs. 26 and 35.
 Descend through dense brush.
 1.75 Cross fence bears N. E. and S. W.
 2.50 Cross fence bears N. W. and S. E.
 39.95 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the
 ground for $\frac{1}{4}$ sec. cor., marked on brass cap $\frac{1}{4}$ S26 in N.
 and S35 1913 in S. half; and raise a mound of stone 2 ft.
 base $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.
 40.58 Cross wash 12 lks. wide course N. W. over level land.
 49.40 Cross wash 25 lks. wide course N, E. ascend rough E. slope.
 65.47 A point from which
 Allaire's house bears N. 30 40' E.
 Barn bears N. 30 55' E.
 Shed bears N. 19 15' E.
 66.10 Top of point of high ridge bears S. descend.
 78.90 Cross road bears N. E. and S. W., in bottom of wash 40
 lks. wide course N. E.
 79.90 The cor. of secs. 26, 27, 34 and 35. **hereinafter described**
 Land, mountainous and level.
 Soil, rocky; 4th. rate.
 Timber, scattering pinon and cedar, with sycamore along wash.
 Undergrowth, oak, mesquite, catclaw, and blackbrush.

October 22, 1913.

1913
 October 23, At 8h. 00m. a.m., l.m.t., I set off $32^{\circ} 47'$ N. on the lat. arc; $11^{\circ} 18\frac{1}{2}'$ S. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 26, 27, 34 and 35. **hereinafter described**

Thence I run

- N. $0^{\circ} 01'$ W. bet. secs. 26 and 27.
 Over level land through dense brush.
 1.10 Cross wash 50 lks. wide course S. E.
 1.50 Cross fence bears N. W. and S. E.
 1.80 Cross ditch 8 lks. wide running water, course E. and ascend rough broken S. slope.

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- 14.80 Ridge bears E. and W. descend.
- 30.40 Cross wash 25 lks. wide course E. ascend.
- 36.00 Ridge bears E. and W. 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 $\frac{1}{4}$ S27 in W. S26 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.
- 45.15 Cross wash 20 lks. wide course E. ascend.
- 57.45 Ridge bears E. and W. descend.
- 69.60 Cross wash 18 lks. wide course E. ascend.
- 77.00 Ridge bears E. and W. descend.
- 80.00 Set an iron post 3 ft. long, 2 ins. diam., 24 ins. in the ground for cor. of secs. 22, 23, 26 and 27, marked on brass cap
 T7SR19E in N. and
 1913 in S. half;
 S22 in N. W.
 S23 in N. E.
 S26 in S. E. and
 S27 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.
 Timber, scattering oak and pinon.
 Undergrowth, oak and blackbrush.
 Note: At this cor. I set off $11^{\circ} 23'$ S. on the decl. arc; and observe the sun on the meridian at noon; the resulting lat. is $32^{\circ} 47\frac{1}{2}'$ N.

- 40.00 S. $89^{\circ} 57'$ E. on a random line bet. secs. 23 and 26 Set temp. $\frac{1}{4}$ sec. cor.
- 79.96 Intersect N. and S. line 12 lks. S. of the cor. of secs. 23, 24, 25 and 26. ~~hereinbefore described~~
 Thence I run
 S. $89^{\circ} 58'$ W. bet. secs. 23 and 26.
 Descend through dense brush.
- 22.55 Cross road bears N. E. and S. W. over level land.
- 27.60 Cross wash 60 lks. wide course N. E. ascend.
- 39.98 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 $\frac{1}{4}$ S23 in N. and S26 1913 in S. half; and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.
- 64.20 A point from which
 W. B. Bratton house bears N. $74^{\circ} 29'$ E.
- 79.96 The cor. of secs. 22, 23, 26 and 27. ~~hereinbefore described~~
 Land, mountainous and level.
 Soil, rocky; 4th. rate, except level land along wash which is a sandy loam, dry, medium texture; 1st. rate.
 Timber, scattering pinon and cedar.
 Undergrowth, oak, catclaw, mesquite and blackbrush.

October 23, 1913.

1913.

- October 28; At 8h. 00m. a.m., l.m.t., I set off $32^{\circ} 47\frac{1}{2}'$ N. on the lat. arc; $13^{\circ} 01\frac{1}{2}'$ S. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 22, 23, 26, and 27. ~~hereinbefore described~~
 Thence I run
 N. $0^{\circ} 01'$ W. bet. secs. 22 and 23.
 descend through dense brush.
- 1.60 Cross wash 12 lks. wide course E. ascend.
- 19.00 Ridge bears N. W. and S. E. descend.
- 21.80 Cross wash 20 lks. wide course S. E. 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 $\frac{1}{4}$ S22 in W. S23 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.

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Chains.

46.60 Ridge bears S. E. and N. W. descend.
 54.85 Cross wash 15 lks. wide course S. E. ascend.
 80.00 Set an iron post 3 ft. long, 2 ins. diam., 24 ins. in the ground for cor. of secs. 14, 15, 22 and 23, marked on brass cap
 T7SR19E in N. and
 1913 in S. half;
 S15 in N. W.
 S14 in N. E.
 S23 in S. E. and
 S22 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.
 Timber, scattering oak and pinon.
 Undergrowth, oak, catclaw, mesquite and blackbrush.
 Note: At this cor. I set off $13^{\circ}06'$ S. on the decl. arc; and observe the sun on the meridian at noon; the resulting lat. is $32^{\circ}48\frac{1}{2}'$ N.

N. $89^{\circ}58'$ E. on a random line bet. secs. 14 and 23.
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 80.04 Intersect N. and S. line 14 lks. N. of the cor. of secs. 13, 14, 23 and 24. **hereinbefore described**
 Thence I run
 N. $89^{\circ}56'$ W. on a true line bet. secs. 14 and 23.
 Ascend through dense brush.
 7.90 Ridge bears N. W. and S. E. descend.
 30.50 Cross wash 40 lks. wide course S. E. ascend.
 40.02 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 $\frac{1}{4}$ S14 in N. and S23 1913 in S. half; from which
 A pinon 6 ins. diam., bears N. 70 W. 30 lks. dist., marked $\frac{1}{4}$ S14BT.
 An oak 4 ins. diam., bears S. 40 E. 28 lks. dist., marked $\frac{1}{4}$ S23BT.
 68.20 Ridge bears N. W. and S. E. descend.
 80.04 The cor. of secs. 14, 15, 22 and 23. **hereinbefore described**
 Land, mountainous.
 Soil, rocky; 4th. rate.
 Timber, scattering pinon and cedar.
 Undergrowth, oak, mesquite, catclaw and blackbrush.

October 28, 1913.

1913:
 October 29; At 8h. 00m. a.m., l.m.t., I set off $13^{\circ}22'$ S. on the decl. arc; $32^{\circ}48\frac{1}{2}'$ N. on the lat. arc; and determine a meridian with the solar at the cor. of secs. 14, 15, 22 and 23. **hereinbefore described**
 Thence I run
 N. $0^{\circ}01'$ W. bet. secs. 14 and 15.
 Ascend through dense brush.
 37.50 Ridge bears N. W. and S. E. 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 $\frac{1}{4}$ S15 in W., S14 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.
 54.30 Cross wash 12 lks. wide course S. E. ascend.
 69.50 Ridge bears N. W. and S. E. descend.
 80.00 Set an iron post 3 ft. long, 2 ins. diam., 24 ins. in the ground for cor. of secs. 10, 11, 14 and 15, marked on brass cap
 T7SR19E in N. and
 1913 in S. half;
 S10 in N. W.
 S11 in N. E.

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Chains.

- S14 in S. E. and
 S15 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, catclaw, mesquite and blackbrush.
-
- S. $89^{\circ} 56'$ E. on a random line bet. secs. 11 and 14.
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 79.98 Intersect N. and S. line 5 lks. S. of the cor. of secs. 11, 12, 13 and 14. **hereinbefore described**
 Thence I run
 N. $89^{\circ} 58'$ W. on a true line bet. secs. 11 and 14.
 Ascend through dense brush.
 20.60 Ridge bears N. E. and S. W. descend.
 30.55 Cross wash 20 lks. wide course N. E. ascend.
 39.99 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 $\frac{1}{4}$ S11 in N. and S14 1913 in S. half; and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.
 45.00 Ridge bears N. E. and S. W. descend.
 48.40 Cross wash 10 lks. wide course S. E.
 66.05 Cross wash 10 lks. wide course S. E. ascend.
 75.00 Ridge bears N. and S. descend.
 79.98 The cor. of secs. 10, 11, 14 and 15. **hereinbefore described**
 Land, mountainous.
 Soil, rocky; 4th. rate.
 No timber.
 Undergrowth, catclaw, mesquite and blackbrush.
 Note: At this cor. I set off $13^{\circ} 26'$ S. on the decl. arc; and observe the sun on the meridian at noon; the resulting lat. is $32^{\circ} 49\frac{1}{2}'$ N. October 29, 1913.
-
1913.
 November 4: At 8h. 00m. a.m., l.m.t., I set off $32^{\circ} 49\frac{1}{2}'$ N. on the lat. arc; $15^{\circ} 17'$ S. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 10, 11, 14 and 15. **hereinbefore described**
 Thence I run
 N. $0^{\circ} 01'$ W. bet. secs. 10 and 11.
 Descend through dense brush.
 6.80 Cross wash 16 lks. wide course S. E. ascend.
 28.00 Ridge bears N. E. and S. W. 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 $\frac{1}{4}$ S10 in W. and S11 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.
 64.55 Cross wash 18 lks. wide course N. E. ascend.
 80.00 Set an iron post 3 ft. long, 2 ins. diam., 24 ins. in the ground for cor. of secs. 2, 3, 10 and 11, marked on brass cap
 T7SR19E in N. and
 1913 in S. half;
 S3 in N. W.
 S2 in N. E.
 S11 in S. E. and
 S10 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, catclaw, mesquite and blackbrush.

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- Chains.
- 41.80 Cross wash 20 lks. wide course N. E. ascend along S. E. slope.
- 79.75 Set an iron post 3 ft. long, 2 ins. diam., 24 ins. in the ground for witness cor. of secs. 27, 28, 33 and 34, marked on brass cap ^{to cor}
 WC S. of center,
 T7SR19E in N. and
 1913 in S. half;
 S28 in N. W.
 S27 in N. E.
 S34 in S. E. and
 S33 in S. W. quadrant; from which
 A pinon 9 ins. diam., bears N. $11\frac{1}{2}^{\circ}$ W. 98 lks. dist., marked WCT7SR19ES28BT.
 A pinon 12 ins. diam., bears N. $22\frac{1}{2}^{\circ}$ E. 60 lks. dist., marked WCT7SR19ES27BT.
 A cedar 6 ins. diam., bears S. 48° E. 83 lks. dist., marked WCT7SR19ES34BT.
 A pinon 7 ins. diam., bears S. 70° W. 52 lks. dist., marked WCT7SR19ES33BT.
- 80.00 Point for cor. of secs. 27, 28, 33 and 34 rough granite ledge impossible to mark and on which it is impossible to set post.
 Land, rough and mountainous.
 Soil, rocky; 4th. rate.
 Timber scattering oak, pinon and cedar.
 Undergrowth, oak, mesquite and catclaw.
 Note: At this cor. I set off $11^{\circ} 45'$ S. on the decl. arc; and observe the sun on the meridian at noon; the resulting lat. is $32^{\circ} 47'$ N.
-
- 40.00 East on a random line bet. secs. 27 and 34, from ^{true} cor. pt. Set temp. $\frac{1}{4}$ sec. cor.
- 79.98 Intersect N. and S. line 5 lks. S. of the cor. of secs. 26, 27, 34 and 35. ~~hereinbefore~~ described
 Thence I run
 S. $89^{\circ} 58'$ W. bet. secs. 27 and 34.
 Ascend steep, rough slope through dense brush.
- 14.15 Top peak descend.
- 24.10 Cross wash 10 lks. wide course N. E.
- 39.99 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 $\frac{1}{4}$ S27 in N. and S34 ¹⁹¹³ in S. half; from which
 A cedar 4 ins. diam., bears N. 80° E. 92 lks. dist., marked $\frac{1}{4}$ S27BT.
 A pinon 6 ins. diam., bears S. 42° W. 34 lks. dist., marked $\frac{1}{4}$ S34BT.
- 67.90 Cross wash 25 lks. wide course N. ascend.
- 79.98 The point for cor. of secs. 27, 28, 33 and 34. ~~hereinbefore~~ described
 Land, mountainous.
 Soil, rocky; 4th. rate.
 Timber, scattering pinon and cedar.
 Undergrowth, oak, catclaw and mesquite.
- October 24, 1913.
-
- 1913,
 October 25, At 8h. 00m. a.m., l.m.t., I set off $32^{\circ} 47'$ N. on the lat. arc; $12^{\circ} 00\frac{1}{2}'$ S. on the decl. arc; and determine a meridian with the solar at the true point for cor. of secs. 27, 28, 33 and 34. ~~hereinbefore~~ described
 Thence I run
 N. $0^{\circ} 02'$ W. bet. secs. 27 and 28.
 Descend steep, rough slope, through dense brush.
- 12.50 Cross wash 75 lks. wide course S. E. ascend.
- 37.30 Ridge bears N. W. and S. E. descend along rough broken W. slope.

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Chains.
 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 $\frac{1}{4}$ S28 in W. S27 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.
 80.00 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 brass cap
 T7SR19E in N. and
 1913 in S. 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.
 Soil, rocky; 4th. rate.
 No timber.
 Undergrowth, oak, mesquite and catclaw.
 Note: At this cor. I set off $12^{\circ} 05'$ S. on the decl. arc; and observe the sun on the meridian at noon; the resulting lat. is $32^{\circ} 47\frac{1}{2}'$ N.

N. $89^{\circ} 58'$ E. on a random line bet. secs. 22 and 27
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 80.10 Intersect N. and S. line 14 lks. N. of the cor. of secs. 22, 23, 26 and 27 ~~hereinbefore described~~
 Thence I run
 N. $89^{\circ} 56'$ W. on a true line bet. secs. 22 and 27
 Ascend along N. side of ridge through dense brush.
 23.40 Ridge bears N. E. and S. W. descend.
 37.00 Cross wash 35 lks. wide course N. E. ascend.
 40.05 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 $\frac{1}{4}$ S22 in N. and S27 1913 in S. half; and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.
 70.66 Ridge bears N. E. and S. W. descend.
 80.10 The cor. of secs. 21, 22, 27 and 28. ~~hereinbefore described~~
 Land, mountainous.
 Soil, rocky; 4th. rate.
 No timber.
 Undergrowth, oak, catclaw and mesquite.

October 25, 1913.

1913:
 October 30: At 8h. 00m. a.m., l.m.t., I set off $32^{\circ} 47\frac{1}{2}'$ N. on the lat. arc; $13^{\circ} 41\frac{1}{2}'$ S. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 21, 22, 27 and 28. ~~hereinbefore described~~
 Thence I run
 N. $0^{\circ} 02'$ W. bet. secs. 21 and 22
 Descending along side of ridge through dense brush.
 39.00 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for witness ^{cor. to} $\frac{1}{4}$ sec. cor., marked on brass cap WC $\frac{1}{4}$ in N. and 1913 in S. half; S22 in S. E. and S21 in S. W. quadrant; from which
 A pinon 6 ins. diam., bears N. 59° E. 70 lks. dist., marked WC $\frac{1}{4}$ S22BT
 A cedar 4 ins. diam., bears S. 42° W. 39 lks. dst., marked WC $\frac{1}{4}$ S21BT.
 The line north from this point runs over land so rough and broken that it is impossible to get the line over it. The true point for $\frac{1}{4}$ sec. cor. at 40.00 chs. is inaccessible.
 From the witness ^{cor. to} $\frac{1}{4}$ sec. cor. I offset east 13.00 chs and run thence N. $0^{\circ} 02'$ W. on offset line.
 80.00 The land is so rough and broken that it is impossible to regain line at this point; therefore,

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Chains.

- 90.66 .I continue N. $0^{\circ} 02'$ W. on offset line in sec. 15.
From this point I run west 13.00 chs. to line and
Set an iron post 3 ft. long, 2 ins. diam., 24 ins. in the
ground for witness cor. of secs. 15, 16, 21 and 22,
Marked on brass cap ~~to~~ ^{to} cor.
WC N. of center
T7SR19E in N. and
1913 in S. half;
S16 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.
Timber, scattering pinon and cedar.
Undergrowth, oak, catclaw, mesquite, and blackbrush.
Note: At this cor. I set off $13^{\circ} 46'$ S. on the
decl. arc; and observe the sun on the meridian at noon;
the resulting lat. is $32^{\circ} 48\frac{1}{2}'$ N.
-
- 40.00 S. $89^{\circ} 56'$ E. on a random line bet. secs. 15 and 22
From witness cor. of secs. 15, 16, 21 and 22.
Set temp. $\frac{1}{4}$ sec. cor.
- 80.02 Intersect N. and S. line 10.61 chs. $0^{\circ} 01'$ W.
14, 15, 22 and 23. ~~hereinbefore~~ described
The line bet. secs. 15 and 22 is so broken by cliffs
that it is impassible, therefore From a point 10.66 chs.
N. $0^{\circ} 01'$ W. of the cor. of secs. 14, 15, 22 and 23
I run
N. $89^{\circ} 58'$ W. on an offset line bet. secs. 15 and 22.
Top of high ridge about 15.50 chs. W. of cor.
- 38.00 At this point I run S. $0^{\circ} 02'$ E. 10.66 chs. and
Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the
ground for witness ^{to} ~~cor.~~ ^{cor.} $\frac{1}{4}$ sec. cor., marked on brass cap WC $\frac{1}{4}$
in W. and 1913 in S. half; S15 in N. E. and S22 in S. E.
quadrant; and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft.
high N. of cor. The true point for $\frac{1}{4}$ sec. cor. at 40.01
chs. is inaccessible.
I return to my offset line 10.66 chs. N. of witness
 $\frac{1}{4}$ sec. cor.
- 80.02 Thence I continue my line N. $89^{\circ} 58'$ W.
The witness cor. ^{to} ~~cor.~~ ^{cor.} of secs. 15, 16, 21 and 22. ~~hereinbefore~~ described
Land, mountainous and very rough and broken.
Soil, rocky; 4th. rate.
Timber, scattering cedars and pinon.
Undergrowth, oak, mesquite, catclaw and blackbrush.

October 30, 1913.

October 31, 1913: At 8h. 00m. a.m., l.m.t., I set off 32°
 $48\frac{1}{2}'$ N. on the lat. arc; $14^{\circ} 01'$ S. on the decl. arc; and
determine a meridian with the solar at the witness cor. to cor.
of secs. 15, 16, 21 and 22 ~~hereinbefore~~ described

- Thence I run
N. $0^{\circ} 02'$ W. bet. secs. 15 and 16 *measuring from cor. point.*
Along rough broken W. slope through dense brush.
- 3.44 Cross wash 25 lks. wide course N. W.
- 7.50 Cross wash 60 lks. wide course N. W.
- 29.34 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 $\frac{1}{4}$ S16 in W.
S15 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.
- 61.40 Cross wash 40 lks. wide course N. W. ascend.
- 69.34 Set an iron post 3 ft. long, 2 ins. diam., 24 ins. in the
ground for cor. of secs. 9, 10, 15 and 16, marked on
Brass cap

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Chains.

T7SR19E in N. and
 1913 in S. half;
 S9 in N. W.
 S10 in N. E.
 S15 in S. E. and
 S16 in S. W. quadrant; from which
 A pinon 8 ins. diam., bears N. 16° W. 59
 lks. dist., marked T7SR19ES9BT.
 A pinon 18 ins. diam., bears N. 60° E. 119
 lks. dist., marked T7SR19ES10BT.
 A pinon 12 ins. diam., bears S. 42° E. 68
 lks. dist., marked T7SR19ES15BT.
 A pinon 16 ins. diam., bears S. 80° W. 93
 lks. dist., marked T7SR19ES16BT.

Land, mountainous.
 Soil, rocky; 4th. rate.
 Timber, pinon, oak and cedar.
 Undergrowth, oak, catclaw, mesquite and blackbrush.
 Note: At this cor. I set off 14° 05½' S. on the
 decl. arc; and observe the sun on the meridian at noon;
 the resulting lat. is 32° 49½' N.

40.00 S. 89° 58' E. on a random line bet. secs. 10 and 15.
 Set temp. ¼ sec. cor.
 79.94 Intersect N. and S. line 12 lks. S. of the cor. of secs.
 10, 11, 14 and 15. ~~hereinbefore~~ described
 Thence I run
 S. 89° 57' W. on a true line bet. secs. 10 and 15.
 Descending through scattering brush.
 6.90 Cross wash 12 lks. wide course N. ascend.
 14.10 Ridge bears N. E. and S. W. descend.
 39.97 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the
 ground for ¼ sec. cor., marked on brass cap ¼ S10 in N.
 and S15 1913 in S. half; and raise a mound of stone 2 ft.
 base 1½ ft. high, N. of cor. Pits impracticable.
 71.40 Cross wash 8 lks. wide course N. W. brush becomes dense
 and through heavy timber.
 79.94 The cor. of secs. 9, 10, 15 and 16. ~~hereinbefore~~ described
 Land, mountainous.
 Soil, rocky; 4th. rate.
 No timber.
 Undergrowth, oak, mesquite, catclaw, and blackbrush.

October 31, 1913.

November 5, 1913:
 At 8h. 00m. a.m., l.m.t., I set off 32° 49½'
 N. on the lat. arc; 15° 35½' S. on the decl. arc; and
 determine a meridian with the solar at the cor. of secs.
 9, 10, 15 and 16, ~~hereinbefore~~ described
 Thence I run
 N. 0° 02' W. bet. secs. 9 and 10
 Ascending through dense brush.
 1.40 Cross wash 10 lks. wide course S. W.
 40.00 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the
 ground for ¼ sec. cor., marked on brass cap ¼ S9 in W.
 S10 in E. and 1913 in S. half; and raise a mound of stone
 2 ft. base 1½ ft. high, W. of cor. Pits impracticable.
 44.00 Ridge bears N. and S. W. and along on top of ridge.
 80.00 Set an iron post 3 ft. long, 2 ins. diam., 24 ins. in the
 ground for cor. of secs. 3, 4, 9 and 10, marked on brass
 cap
 T7SR19E in N. and
 1913 in S. half;
 S4 in N. W.
 S3 in N. E.
 S10 in S. E. and
 S9 in S. W. quadrant; and raise a mound of stone 2 ft.

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Chains.

base $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
 Land, mountainous.
 Soil, rocky; 4th. rate.
 Timber, scattering pinon.
 Undergrowth, oak, catclaw, mesquite and blackbrush.
 Note: At this cor. I set off $15^{\circ}40'$ S. on the
 decl. arc; and observe the sun on the meridian at noon;
 the resulting lat. is $32^{\circ}50\frac{1}{2}'$ N.

N. $89^{\circ}57'$ E. on a random line bet. secs. 3 and 10
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 80.02 Intersect N. and S. line 9 lks. N. of the cor. of secs.
 2, 3, 10 and 11. *hereinbefore described*
 Thence I run
 N. $89^{\circ}59'$ W. on a true line bet. secs. 3 and 10.
 Ascend through dense brush.
 5.00 Top ridge bears N. E. and S. W. descend.
 40.01 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 $\frac{1}{4}$ S3 in N. and
 S10 1913 in S. half; and raise a mound of stone 2 ft.
 base $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.
 51.70 Cross wash 35 lks. wide course N. W. ascend.
 60.90 Ridge bears N. and S. descend.
 72.95 Cross wash 18 lks. wide course N. E. ascend.
 80.02 The cor. of secs. 3, 4, 9 and 10. *hereinbefore described*
 Land, mountainous.
 Soil, rocky; 4th. rate.
 No timber.
 Undergrowth, oak, catclaw and blackbrush.

November 5, 1913.

GENERAL DESCRIPTION.

This township is very rough and mountainous, and the soil is generally rocky and worthless. The soil along the wash in secs. 26, 23, 24, 23 and the E. half of sec. 1 is a sandy loam and very fertile. There is a small stream of water in secs. 26 and 27 which is used by Mr. Allaire to irrigate land in sec. 26. There is a scattering growth of oak, pinon and cedar timber, and along the main wash grow sycamore and hackberry. Mining work has been conducted in secs. 27 and 34 but the plant is now idle. There is one settler in sec. 26, one in sec. 23, and two in sec. 1. James T. Davidson and Jose Murago, two of the applicants for the survey of this township, have moved away.

The portion of the township surveyed covers all of the agricultural land in the township and the survey was discontinued with these lines because the remainder of the township is extremely rough and broken and almost un-surveyable.

John P. Hesse
 U. S. Surveyor.

Resurvey of portion of the east boundary of Tp. 7 S. R. 19 E.

Chains.

November 1, 1913.
The cor. of secs. 7, 12, 13 and 18 on the east boundary is a stone marked and witnessed as described by the surveyor general, but as the stone is broken into two pieces I destroy this cor. and re-establish it in its original position as follows:
Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for cor. of secs. 7, 12, 13 and 18, marked on brass cap

T7S in N. and
1913 in S. half;
R19ES12 in N. W.
R20ES7 in N. E.

S18 in S. E. and
S13 in S. W. quadrant; and raise a mound of stone 2 ft. base 1 1/2 ft. high, W. of cor. Pits impracticable.

Note: At this cor. I set off 14° 24 1/2' S. on the decl. arc; 32° 49 1/2' N. on the lat. arc; and determine a meridian with the solar at lh. oom. p.m., 1.m.t.,

Thence I run
North, bet. secs. 7 and 12, on random line.
Over rolling land, through dense brush.

27.40 Cross wash 10 lks. wide course N. E.

40.02 Fall 17 lks. E. of ^{OLD} 1/4 sec. cor. and as the accessories are

Destroyed and the marks on this ^{OLD} cor. almost illegible. I ^{DESTROY} old
cor. and reestablish this cor. in its original position as follows:

Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for 1/4 sec. cor., marked on brass cap 1/4 S12 in W. S7 in E. half, and ^{1913 in S. half} raise a mound of stone 2 ft. base 1 1/2 ft. high, W. of cor. Pits impracticable.

^{AND DIST.} True course of this half mile is ^{THEREFORE} N. 0° 15' W., 40.02 chs.
From 1/4 sec. cor. I run

39.89 North, on random line, bet. secs. 7 and 12, on N. half mile.
Fall 12 lks. E. of ^{OLD} cor. of secs. 1, 6, 7 and 12, the bearing trees have all been cut down and the marks on the post are nearly rotted away, therefore ^{DESTROY OLD COR. AND} re-establish this cor. in its original position as follows:

Set an iron post 3 ft. long, 3 ins. diam, 24 ins. in the ground for cor. of secs. 1, 6, 7 and 12, marked on brass cap

T7S in N. and
1913 in S. half;
R19ES1 in N. W.
R20ES6 in N. E.
S7 in S. E. and

S12 in S. W. quadrant: from which

A catclaw 5 ins. diam., bears N. 48 1/4° W. 239 lks. dist., marked T7SR19ES1BT.

A catclaw 5 ins. diam., bears N. 46 1/2° E. 301 lks. dist., marked T7SR20ES6BT.

A mesquite 7 ins. diam., bears S. 18 3/4° E. 168 lks. dist., marked T7SR20ES7BT.

A catclaw 4 ins. diam., bears S. 32° W. 306 lks. dist., marked T7SR19ES12BT.

From this cor. C. H. Power house bears N. 15° W.

Windmill bears N. 9° 26' W.

^{AND DIST.} True course of this half mile is ^{THEREFORE} N. 0° 10' W., 39,89 chs.
Land, hilly.

Soil, Rocky; 4th. rate.

Timber, scattering cedars.

Undergrowth, oak, catclaw, mesquite and blackbrush.

North, bet. secs. 1 and 6, on random line.

Over rolling land, through dense brush.

25.60 Cross Arivaipa Creek, dry, 500 lks. wide course N. W.

38.50 Cross road bears N. W. and S. E.

39.92 Fall 17 lks. E. of ^{OLD} 1/4 sec. cor. and as the post is badly rotted I destroy the old cor. and re-establish it in its original position as follows:

of

~~Resurvey of portion the east boundary of Tp. 7 S. Rg. 19 E.~~

Chains.

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 $\frac{1}{4}$ S1 in W. S7 in E. and 1913 in S. half; dig pits 18 x 18 x 12 ins. E. 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.

True course ^{AND DIST.} of this half mile is ^{THEREFORE} N. $0^{\circ} 15'$ W., 39.92 chs.

From $\frac{1}{4}$ sec. cor. I run

North, on random line, bet. secs. 1 and 6, on N. half mile.

0.20 Cross road bears E. and W.

40.03 Fall 100 lks. E. of cor. of Tps. 6 and 7 S. Rgs. 19 and 20 E. and as the marks on the cor. and on the bearing trees are almost illegible I reestablish this cor. in its original position as follows:

Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for cor. of Tps. 6 and 7 S. Rgs. 19 and 20 E. marked on brass cap

T6S in N.

R20E in E.

T7S 1913 in S. and

R19E in W. half;

S36 in N. W.

S31 in N. E.

S6 in S. E. and

S1 in S. W. quadrant; from which

A catclaw 4 ins. diam., bears N $47\frac{1}{4}^{\circ}$ W. 77 lks. dist., marked T6SR19ES36BT.

A catclaw 4 ins. diam., bears N. 53° E. 110 lks. dist., marked T6SR20ES31BT.

A catclaw 4 ins. diam., bears S. 77° E. 25 lks. dist., marked T7SR20ES6BT.

A mesquite 4 ins. diam., bears S. $73\frac{1}{2}^{\circ}$ W. 38 lks. dist., marked T7SR19ES1BT.

The course ^{AND DIST.} of this half mile is ^{THEREFORE} N. $1^{\circ} 26'$ W., 40.04 chs.

Land, level and rolling.

Soil, sandy loam, dry, fine texture, 1st. rate.

Timber, Cottonwoods along Arivaipa Creek.

Undergrowth, mesquite and catclaw.

November 1, 1913.

Resurvey of portion of north boundary of Tp. 7 S. Rg. 19 E.

Chains.

November 2⁽¹⁹¹³⁾ At 8h. 00m. a.m., l.m.t., I set off 32° 51' N. on the lat. arc; 14° 40¹/₂' S. on the decl. arc; and determine a meridian with the solar at the ^{REESTAB.} cor. of Tps. 6 and 7 S. Rgs. 19 and 20 E. hereinbefore described.

Thence I run West ^{on random line} bet. secs. 1 and 36, making diligent search at 40.00 and 80.00 chs. for the ^{OLD} 1/4 sec. and sec. cors. but without success until at

160.08 Fall 10 lks. S. of the ^{OLD} cor. of secs. 2, 3, 34 and 35 a stone poorly set and poorly marked with mound of stone scattered. True course & dist. of line from Tp. cor. is therefore N. 89° 58' W., 160.08 chs. I return to the ^{REESTAB.} cor. of Tps. 6 and 7 S. Rgs. 19 and 20 E. hereinbefore described. Thence I run, N. 89° 58' W., bet. secs. 1 and 36, on true line. Over level land, through dense brush, alongside road.

30.00 Leave brush.

39.50 Cross road bears N. W. and E.

40.02 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for ^{REESTAB.} sec. cor., marked on brass cap 1/4 S36 in N. and S1 1913 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 1/2 ft. base 1 1/2 ft. high, N. of cor.

40.50 Cross road bears N. and S.

50.55 Cross Arivaipa Creek, dry, 5 chs. wide course N. W.

61.20 Ascend rough E. slope through dense brush.

80.04 Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for ^{REESTAB.} cor. of secs. 1, 2, 35 and 36, marked on brass cap

T6S in N.,
T7S 1913 in S. and
R19E in W. half;
S35 in N. W.
S36 in N. E.
S1 in S. E. and
S2 in S. W. quadrant; and raise a mound of stone 2 ft. base 1 1/2 ft. high, W. of cor. Pits impracticable.
Land, mountainous and level.
Soil, E. 61.20 chs. sandy loam, dry, medium texture, 1st. rate. W. 18.84 chs. rocky; 4th. rate.
Timber, a few cottonwoods and sycamores along Arivaipa Creek.
Undergrowth, mesquite and catclaw.
Note: At this cor. I set off 14° 45' S. on the decl. arc; and observe the sun on the meridian at noon; the resulting lat. is 32° 51' N.
From this cor. T. J. Rex house bears S. 11° 20' E.
windmill bears S. 8° 14' E.

West, bet. secs. 2 and 35, on true line,
Descend through dense brush.

6.90 Cross wash 125 lks. wide course N. E. ascend.

40.02 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for ^{REESTAB.} sec. cor., marked on brass cap 1/4 S35 in N. and S2 1913 in S. half; and raise a mound of stone 2 ft. base 1 1/2 ft. high, N. of cor. Pits impracticable. descend.

54.70 Cross wash 19 lks. wide course N. E. ascend.

80.04 The ^{OLD} cor. of secs. 2, 3, 34 and 35 ^{HEREIN BEFORE DESCRIBED} I destroy all traces of the old cor. and re-establish it in its original position as follows:
Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for cor. of secs. 2, 3, 34 and 35, marked on brass cap

T6S in N.
T7S 1913 in S. and
R19E in W. half;
S34 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 1/2 ft. high, W. of cor. Pits impracticable.

PORTION OF
Resurvey of the north boundary of Tp. 7 S. Rg. 19 E.

Chains.

Land, mountainous.
Soil, rocky; 4th. rate.
Timber, scattering pinon and oak.
Undergrowth, oak and blackbrush.

West, bet. secs. 3 and 34., on random line,
Ascend through scattering brush.
3.40 Ridge bears N. E. and S. W.
26.00 Ridge bears N. W. and S. E. descend.
39.90 Fall 1 lk. N. of $\frac{1}{4}$ sec. cor. a stone poorly marked and
loosely set in the ground. I destroy this old cor. and
re-establish it in the same place as follows:
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 $\frac{1}{4}$ 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.
Land, rough, broken, mountainous.
Soil, rocky, 4th. rate.
No timber.
Undergrowth, mesquite, blackbrush and catclaw.
True course^{and dist} of this half mile is therefore S. 89° 59' W.,
39.90 chs.

November 2, 1913.

John P. Hesse
U. S. Surveyor

CERTIFICATE OF ASSISTANTS.

Same applies to Book "ZA" Group 18, and to Books "B" & "C" Group 6

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*

Subdivision lines of Tps. N° 8 and 9 S., Range 20 E. under Group N° 6, and the Subdivision lines of Tp. 7 S., R. 19 E. and Tp. 12 S., R. 20 E. under Group N° 18 and in Resurveying all those parts or portions of the East bdy of Tp. 8 S. R. 20 E. under Group N° 6, and of the East and North bdis of Tp. 7 S. R. 19 E. and West boundary of Tp. 12 S. R. 20 E. under Group N° 18

of the *Base and* 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 direction; and that said survey ^{and resurvey} has been, in all respects, to the best of our knowledge and belief, well and faithfully executed.

NAME.	PERIOD OF SERVICE.		CAPACITY.
	BEGUN.	ENDED.	
<i>R. J. Sheridan</i>	<i>October 1, 1913</i>	<i>October 31, 1913</i>	<i>Assman</i>
<i>R. B. Gardner</i>	<i>August 12, 1913</i>	<i>October 31, 1913</i>	<i>Cornerman</i>
<i>J. S. Hughes</i>	<i>February 9, 1913</i>	<i>October 31, 1913</i>	<i>Flagman</i>
<i>J. L. Sisson</i>	<i>November 1, 1913</i>	<i>November 5, 1913</i>	<i>Assman</i>
<i>W. E. Francis</i>	<i>November 1, 1913</i>	<i>November 5, 1913</i>	<i>Flagman</i>
<i>C. J. Porter</i>	<i>November 1, 1913</i>	<i>November 5, 1913</i>	<i>Cornerman</i>
<i>E. E. Kestey</i>	<i>March 18, 1913</i>	<i>November 5, 1913</i>	<i>Chairman</i>
<i>F. G. Ayers</i>	<i>August 10, 1913</i>	<i>November 5, 1913</i>	<i>Chairman</i>

Subscribed and certified to before me on the dates of the final service as shown above.

John F. Hesse
U. S. Surveyor.

22
BOOK 2678

FINAL OATH OF UNITED STATES SURVEYOR.
Same applies to Book "Z A" Group 18 and to Books "B" & "C" Group 6

I, John F. Hesse, U. S. Surveyor, do solemnly swear that, in pursuance of special instructions received from the U. S. Surveyor General for Arizona for Groups 6 & 18 bearing dates of the 25th of Aug. 1910 (Group 6) and the 22nd of May 1912 (Group 18) I have well, faithfully, and truly, in my own proper person, and in strict conformity with said instructions, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of the Subdivision lines of Tps. N^o 8 and 9 S., Range 20 E. under Group N^o 6 and of the Subdivision lines of Tp. 7 S., R. 19 E. and Tp. 12 S., R. 20 E. under Group N^o 18; and Resurveyed all those parts or portions of the East bdy. of Tp. 8 S., R. 20 E. under Group N^o 6, and of the East and North bdis. of Tp. 7 S., R. 19 E. and West bdy. of Tp. 12 S., R. 20 E. under Group N^o 18 and resurveys or reestablished of the Gila and Salt River Base and Meridian, in the State of Arizona, which are represented in the foregoing field notes as having been executed by me, and under my direction; and I do further solemnly swear that all the corners of said survey and resurveys or reestablished have been established, and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the U. S. Surveyor General for Arizona and in the specific manner described in the field notes, and that the foregoing are the original field notes of such surveys and resurveys.

John F. Hesse
U. S. Surveyor.

Subscribed by said John F. Hesse, and sworn to before me }
this 11th day of May, 1914



Frank Ingalls
Surveyor General of Arizona.

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,
Phoenix, Arizona, July 21, 1914

The foregoing field notes of the survey of the Subdivision lines and Resurvey of parts of the East and North boundaries of Township N^o 7 South, Range N^o 19 East of the Gila and Salt River Base and Meridian, Arizona.

executed by John F. Hesse, U.S. Surveyor under his special instructions dated May 22nd, 1912, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys and resurveys they describe, are hereby approved.

Frank Ingalls
U. S. Surveyor General of Arizona.

~~I certify that the foregoing transcript of the field notes of the above-described surveys in _____, has been correctly copied from the original notes on file in this office.~~