

FIELD NOTES

OF THE SURVEY OF THE

Subdivision Lines of -

and

Supplemental Notes of Section Line between Secs. 24 & 25 of

and

Resurvey of the East Boundary of

Township 20 South - Range 25 East

Of the Gila & Salt River Base & Meridian,

In the State of Arizona

EXECUTED BY

John F. Hesse &
Alfred N. Oliver

In the capacity of U. S. ^{Transitmen} ~~Surveyor~~, under instructions dated July 28, 1911,

issued by the United States Surveyor General to govern surveys included in Group No. 5, which were approved by the Commissioner of the General Land Office, August 5, 1911, pursuant to authority contained in the Act of Congress dated March 4, 1911.

Survey commenced Sept. 6, 1911

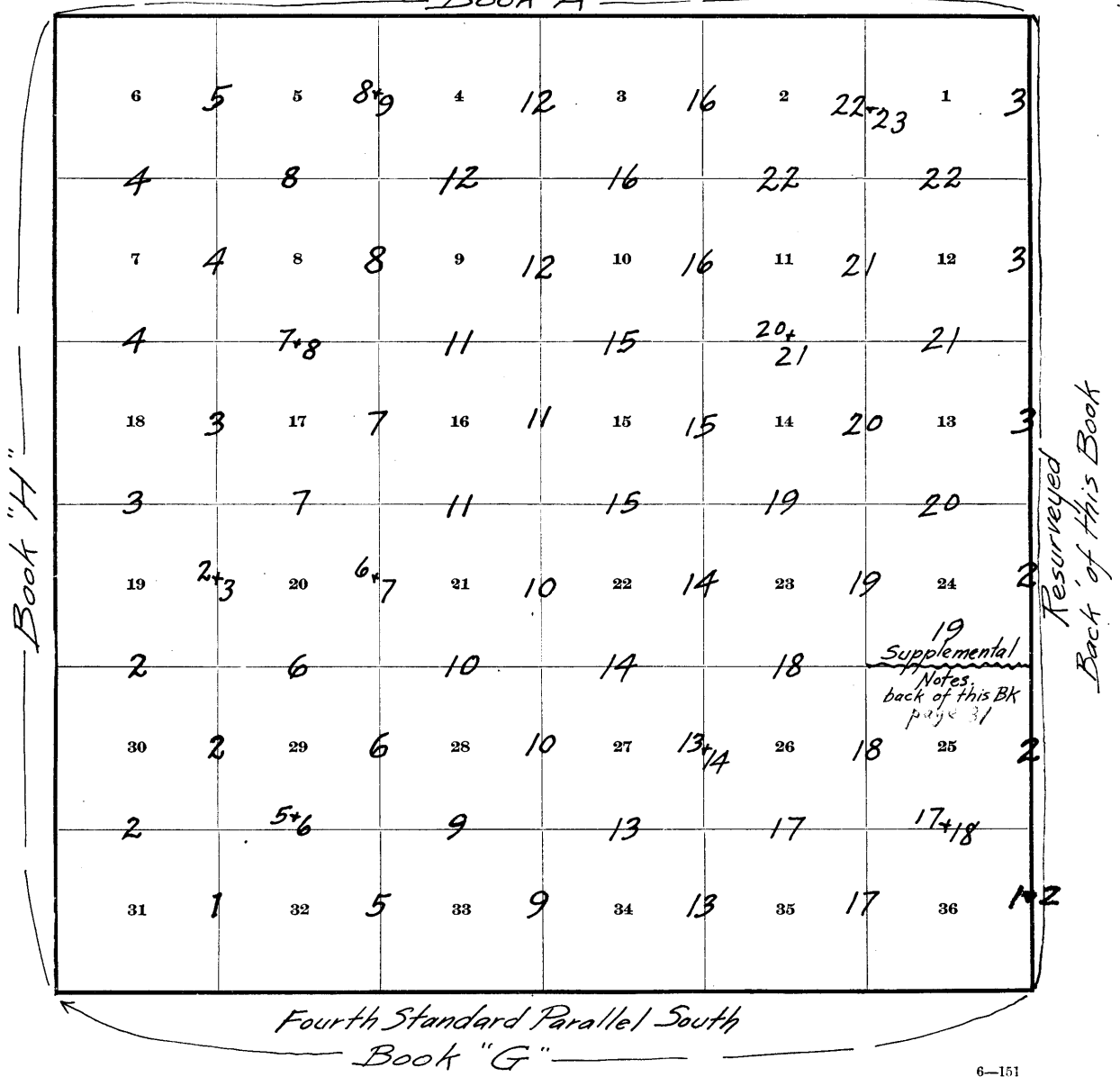
Survey completed April 4, 1913

(1A)

BOOK 2706

INDEX DIAGRAM.

Township 20 South Range 25 East
Book "A"



INDEX DIAGRAM.

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PRELIMINARY OATHS OF ASSISTANTS.

WE, N. P. Harvey and R. L. Bates

do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of the subdivision lines of P 20 S R 25 E. and resurvey of the E. bdy. of P 20 S R 25 E.

N. P. Harvey, Chainman.
R. L. Bates, Chainman.

Subscribed and sworn to before me this 13th day of September, 1911



John P. Hesse
U. S. Surveyor General

WE, J. R. Gardner and

do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given me to the best of my skill and ability, in the survey of the subdivision lines of P 20 S R 25 E. and resurvey of the E. bdy. of P 20 S R 25 E.

J. R. Gardner, Moundman.
Moundman.

Subscribed and sworn to before me this 13th day of September, 1911



John P. Hesse
U. S. Surveyor General

WE, E. Barnes and

do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given me to the best of my skill and ability, in the survey of the subdivision lines of P 20 S R 25 E. and resurvey of the E. bdy. of P 20 S R 25 E.

E. Barnes, Axman.
Axman.

Subscribed and sworn to before me this 13th day of September, 1911



John P. Hesse
U. S. Surveyor General

I, A. W. Hendrix, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of the subdivision lines of P 20 S R 25 E. and resurvey of the E. bdy. of P 20 S R 25 E.

A. W. Hendrix, Flagman.

Subscribed and sworn to before me this 13th day of September, 1911



John P. Hesse
U. S. Surveyor General

Subdivision of Tp. 20 S. Rg. 25 E.

Chains.

Survey commenced September 13, 1911 and executed with a W. and L.E. Gurley solar compass, not numbered. The horizontal limb is provided with two double verniers placed opposite to each other reading to single minutes of the arc, which is also the least count of the verniers of the latitude and declination arcs.

The instrument was examined and approved by the Supervising Surveyor.

I examine the adjustments of the compass and find them correct, then, to test the solar apparatus, by comparing its indications, resulting from solar observations made during a.m. and p.m. hours, with a meridian determined by observations on Polaris, I proceed as follows:

At camp near the cor. Tps. 20 and 21 S., Rgs. 25 and 26 E., latitude $31^{\circ}38\frac{1}{2}'N.$, longitude $109^{\circ}45'29''W$ I set off $31^{\circ}38\frac{1}{2}'N.$ on the lat. arc; $3^{\circ}58'N.$ on the decl. arc and at 5h.00m. p.m., l.m.t., determine with the solar a meridian and mark a point thereof, on a stone firmly set in the ground 5 chs. N. of my station.

At 8h.04m. p.m. by my watch, which has correct l.m.t., I observe Polaris at eastern elongation, in accordance with the 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.

September 13, 1911.

September 14: ¹⁹¹¹ At 6h.30m. a.m., l.m.t., I lay off the azimuth of Polaris, $1^{\circ}22'$ to the west and mark the meridian thus determined, by cutting a small groove in the stone set September 13, on which the meridian coincides with the mark determined by the solar.

At 7h.00m. a.m., l.m.t., I set off $31^{\circ}38\frac{1}{2}'N.$ on the lat arc; $3^{\circ}44\frac{1}{2}'N.$ on the decl. arc and mark a point in the meridian determined with the solar, by a cross on the stone already set 5 chs. N. of my station; this mark coincides with the meridian established by the Polaris observations.

The solar apparatus by p.m. and a/m. observations defines positions for meridians which coincide with the meridian determined by Polaris observations; therefore, I conclude that the adjustments of the instrument are satisfactory.

The magnetic bearing of the true meridian at 7h.15m. a. m., l.m.t., is $N 13^{\circ}15' W$ the angle thus determined gives the mag. decl. $13^{\circ}15' E$

I commence at the ^{standard} cor. of secs. 31 and 32 on the S. bdy of Tp. 20 S. Rg. 25 E., recently re-established by me & described in Book "G."

Thence I run $N.0^{\circ}01'E.$ bet. secs. 31 and 32.

Over level land.

19.43

Cross wash 40 lks. wide, course S.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 ¹⁹¹¹ S31 in W. and S32 in E. half; dig pits 18 x 18 x 12 ins. N. and S. of cor. 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, W. of cor.

80.00

Set an iron post 3 ft. long, 2 ins. diam., 24 ins. in the ground for cor. of secs. 29, 30, 31 and 32, marked on brass cap, ¹⁹¹¹

T20SR25E in N. half;

S30 in N.W.

S29 in N.E.

S32 in S.E. and

S31 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.

Land, level.

Soil, sandy loam, over 3 ft. deep; dry; medium texture; 1st rate.

No timber.

No undergrowth.

2. Subdivision of Township 20 South, Range 25 East.

Chains.

- West on a random line, bet. secs. 30 and 31.
- 40.00 Set temp. $\frac{1}{4}$ sec. cor.
- 80.10 Intersect W. bdy. of Tp. 37 lks. S. of cor. of secs. 25, 30, 31 and 36, established by me Sept. 12, 1911, & described in Book "H"
- Thence I run,
S. $89^{\circ}44'$ E. on a true line, bet. secs. 30 and 31.
Over rolling land, through scattering brush.
- 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 $\frac{1911}{4}$ S 30 in N. and S 31 in S. half; dig pits 18x18x12 ins. E. and W. of cor. 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
- 46.90 Cross wash 20 lks. wide, course SE.
- 68.67 Cross road, bears N. and S.
- 80.10 The cor. of secs. 29, 30, 31 and 32, hereinbefore described.
Land, rolling.
Soil, coarse gravel and rock, 3rd rate.
No timber. Undergrowth, greasewood, mesquite and catclaw.
- N. $0^{\circ}01'$ E., bet. secs. 29 and 30.
Over level land.
- 40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap $\frac{1911}{4}$ S 30 in W. and S 29 in E. half; dig pits 18x18x12 ins. N. and S. of cor. 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
- 52.30 Cross wash 50 lks. wide, course SE.
- 80.00 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 brass cap 1911; T 20 S R 25 E in N. half;
S 19 in NW.,
S 20 in NE.,
S 29 in SE., and
S 30 in SW. quadrant; dig pits 18x18x12 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.
Land, level.
Soil, sandy loam over 2 ft. deep, dry, medium texture; 1st rate. No timber. No undergrowth.
- September 14: At this cor. I set off $3^{\circ}38\frac{1}{2}'$ N. on the decl. arc, and observe the sun on the meridian at noon; the resulting lat. is $31^{\circ}40\frac{1}{2}'$ N.
- N. $89^{\circ}44'$ W. on random line, bet. secs. 19 and 30.
- 40.00 Set temp. $\frac{1}{4}$ sec. cor.
- 80.06 Intersect W. bdy. of Tp. 25 lks. N. of cor. of secs. 19, 24, 25 and 30, established by me Sept. 12, 1911, & described in Book "H"
- Thence I run,
S. $89^{\circ}55'$ E. on true line bet. secs. 19 and 30.
Over rolling land, through scattering brush.
- 40.03 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap $\frac{1911}{4}$ S 19 in N. and S 30 in S. half; dig pits 18x18x12 ins. E. and W. of cor. 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
- 48.66 Cross wash, 50 lks. wide, course SE., over level land.
- 63.63 Cross road, brs. N. and S.
- 80.06 The cor. of secs. 19, 20, 29 and 30, hereinbefore described.
Land, level and rolling.
Soil, rocky and worthless, 4th rate, except 31.40 chs., which is sandy loam over 2 ft. deep; dry, medium texture, 1st rate.
No timber.
Undergrowth, mesquite and catclaw.
- N. $0^{\circ}01'$ E. bet. secs. 19 and 20.
Over level land, through dense brush.

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 ¹⁹¹¹ S19 in W. and S20 in E. half; dig pits 18 x 18 x 12 ins. N. and S. of cor. 3 ft. dist., and raise a mound of earth 3 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor.
80.00	Set an iron post 3 ft. long, 2 ins. diam., 24 ins. in the ground for cor. of secs. 17, 18, 19 and 20, marked on brass cap, ¹⁹¹¹ T20SR25E in N. half; 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. Land, level. Soil, sandy loam over 2 ft. deep; dry; medium texture; 1st rate. No timber. Undergrowth, mesquite and catclaw. September 14, 1911.
	----- September 15 ¹⁹¹¹ At 7h.00m. a.m., l.m.t., I set off 31° 41' N on the lat. arc; 3° 21' 1/2' N on the decl. arc and determine a meridian with the solar at the cor. of secs. 17, 18, 19 and 20, as above described. Thence I run N.89° 55' W. on a random line bet. secs. 18 and 19.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.02	Intersect W. bdy. of Tp. 18 lks. S. of cor. of secs. 13, 18, 19 and 24, established by me Sept. 12, 1911, & described in Book "H" Thence I run S.89° 47' E. on a true line bet. secs. 18 and 19. Over rolling land, through dense brush.
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 ¹⁹¹¹ S18 in N. and S19 in S. half; dig pits 18 x 18 x 12 ins. E. and W. of cor. 3 ft. dist., and raise a mound of earth 3 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor.
57.57	Cross road, bears N. and S.
80.02	The cor. of secs. 17, 18, 19 and 20, hereinbefore described. Land, rolling. Soil, sandy loam mixed with rock and gravel, 2nd rate. No timber. Undergrowth, mesquite and catclaw.
	----- N.0° 01' E. bet. secs. 17 and 18. Over rolling land, through dense brush.
4.50	Cross wash 30 lks. wide, course E.
37.20	Cross wash 10 lks. wide, course 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 ¹⁹¹¹ S18 in W. and S17 in E. half; dig pits 18 x 18 x 12 ins. N. and S. of cor. 3 ft. dist., and raise a mound of earth 3 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor.
55.11	Cross road, bears N.W. and S.E.
64.50	Cross wash 15 lks. wide, course E.
80.00	Set an iron post 3 ft. long, 2 ins. diam., 24 ins. in the ground for cor. of secs. 7, 8, 17 and 18, marked on brass cap, ¹⁹¹¹ T20SR25E in N. half; S7 in N.W. S8 in N.E. S17 in S.E. and S18 in S.W. quadrant; raise a mound of stone 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor. Pits impracticable. Land, rolling. Soil, calcareous, 4th rate, No timber. Undergrowth, mesquite, catclaw and hackberry.

4. Subdivision of Township 20 South. Range 25 East.

Chains.

- N.89°47'W. on a random line, bet. secs. 7 and 18.
 40.00 Set temp. $\frac{1}{4}$ sec.cor.
 80.00 Intersect W.bdy.of Tp. 16 lks.S.of cor. of secs.7,12,13
 and 18, established by me Sept.12,1911, & described in Book "H"
 Thence I run,
 S.89°40'E. on a true line, bet. secs.7 and 18.
 Over rolling land, through dense brush.
 5.00 Cross wash, 40 lks.wide, course S.
 29.48 Cross wash, 20 lks.wide, course SE.
 40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in
 the ground for $\frac{1}{4}$ sec.cor., marked on brass cap¹⁹¹¹ $\frac{1}{4}$ S
 7 in N. and S 18 in S.half; raise a mound of stone 2
 ft.base, $1\frac{1}{2}$ ft. high,N.of cor. Pits impracticable.
 59.80 Cross road, bears N.and S.
 60.40 Cross wash, 15 lks.wide, course S.
 80.00 The cor.of secs. 7,8,17 and 18, hereinbefore described.
 Land, rolling.
 Soil, calcareous, 4th rate.
 No timber.
 Undergrowth, mesquite and catclaw.
 At this cor. I set off 3°15 $\frac{1}{2}$ 'N. on the
 decl.arc, and observe the sun on the meridian at noon;
 the resulting lat.is 31°42'N.
-
- N.0°01' E. bet. secs.7 and 8.
 Over rolling land, through dense brush.
 12.42 Cross wash, 15 lks.wide, course SW.
 40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in
 the ground for $\frac{1}{4}$ sec.cor., marked on brass cap¹⁹¹¹ $\frac{1}{4}$ S 7
 in W. and S 8 in E.half; dig pits 18x18x12 ins. N.and
 S.of cor. 3 ft. dist., and raise a mound of earth 3 $\frac{1}{2}$ ft.
 base, $1\frac{1}{2}$ ft. high,W.of cor.
 71.20 Cross wash,20 lks.wide, course SE.
 80.00 Set an iron post 3 ft. long, 2 ins. in diam., 24 ins. in
 the ground for cor.of secs. 5,6,7 and 8, marked on
 brass cap,1911;
 T 20 S R 25 E in N.half;
 S 6 in NW.,
 S 5 in NE.,
 S 8 in SE., and
 S 7 in SW.quadrant;dig pits 18x18x12 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.
 Land,rolling.
 Soil, calcareous, 4th rate.
 No timber.
 Undergrowth, mesquite and catclaw.
-
- N.89°40'W.on a random line, bet. secs.6 and 7.
 40.00 Set temp. $\frac{1}{4}$ sec.cor.
 79.94 Intersect W.bdy.of Tp. at cor.of secs.1,6,7 and 12, established
 by me Sept.12,1911, & described in Book "H", Thence I run,
 S.89°40'E. on a true line, bet. secs.6 and 7.
 Over rolling land, through dense brush.
 8.64 Cross wash,20 lks.wide, course SE.
 28.24 House, bears S.31°E.
 33.59 Cross road, bears N.and S.
 39.97 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in
 the ground, for $\frac{1}{4}$ sec.cor., marked on brass cap,1911;
 $\frac{1}{4}$ S 6 in N. and
 S 7 in S.half; raise a mound of stone 2 ft. base, $1\frac{1}{2}$
 ft.high,N.of cor. Pits impracticable.
 49.62 Cross road, bears N.and S.
 51.33 Same house, bears S.48°20'W.
 63.76 Cross wash, 15 lks.wide, course SE.
 79.94 The cor.of secs.5,6,7 and 8, hereinbefore described.
 Land, rolling.
 Soil, calcareous, 4th rate.
 No timber. Undergrowth, mesquite.
-

5. Subdivision of Township 20 South, Range 25 East. 5

- Chains. N.0° 01' E., bet. secs. 5 and 6.
 Over rolling land, through dense brush.
- 22.40 Cross wash, 1.00 ch. wide, course SE.
- 40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground
 for $\frac{1}{4}$ sec. cor., marked on brass cap, 1911; $\frac{1}{4}$ S 6 in W., and
 S 5 in E. half; dig pits 18x18x12 ins. N. and S. of cor. 3 ft.
 dist., and raise a mound of earth 3 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high,
 W. of cor.
- 62.16 Intersect W. side line, Tom Thumb mining claim, Surv. No. 2635,
 22 lks. N. 19° 42' W. of cor. No. 3 of said claim.
- 74.79 John Gleason's house bears N. 26° 55' E.
- 78.00 Cross road, brs. NW. and SE.
- 81.34 Intersect N. bdy. of Tp. 7.07 chs. W. of $\frac{1}{4}$ sec. cor. of sec. 32,
 on S. bdy. of Tp. 19 S., R. 25 E., estab. by John F. Hesse, July 25, 1911 & described
 in Book "A"
- Set a granite rock 18x10x8 ins., 12 ins. in the ground for
 closing cor. of secs. 5 and 6, marked
 C C on S., with 5 grooves on E. and 1 groove on W. faces;
 dig pits 24x18x12 ins. crosswise on each line, E. and W.
 3 ft., and S. of stone 7 ft. dist., and raise a mound of
 earth 4 ft. base, 2 ft. high, S. of cor.
 John Gleason's house, bears N. 78° 25' E.
 Land, rolling.
 Soil, calcareous, 4th rate.
 No timber.
 Undergrowth, mesquite and catclaw.
- September 15, 1911.
- September 19, 1911 At 7h.00m. a.m., 1.m.t., I set off 31° 38 $\frac{1}{2}$ ' N.
 on the lat. arc; 1° 48 $\frac{1}{2}$ ' N. on the decl. arc, and deter-
 mine a meridian with the solar at the Standard cor. of secs. 32
 and 33 on S. bdy. of T. 20 S., R. 25 E., re-established by me, Sept. 9, 1911,
 & described in Book "G".
- Thence I run,
 N.0° 01' E. bet. secs. 32 and 33.
 Over level land, through cacti.
- 3.90 Cross wash, 20 lks. wide, course E.
- 33.00 Cross wash, 40 lks. wide, course E.
- 40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the
 ground for $\frac{1}{4}$ sec. cor., marked on brass cap, 1911; $\frac{1}{4}$ S 32 in
 W. and S 33 in E. half; dig pits 18x18x12 ins. N. and S.
 of cor. 3 ft. dist., and raise a mound of earth 3 $\frac{1}{2}$ ft.
 base, 1 $\frac{1}{2}$ ft. high, W. of cor.
- 80.00 Set an iron post 3 ft. long, 2 ins. in diam., 24 ins. in
 the ground for cor. of secs. 28, 29, 32 and 33, marked on
 brass cap, 1911;
 T 20 S R 25 E in N. half;
 S 29 in NW.,
 S 28 in NE.,
 S 33 in SE., and
 S 32 in SW. quadrant; dig pits 18x18x12 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.
- Land, level.
 Soil, sandy loam over 2 ft. deep, dry, medium texture; 1st
 rate.
 No timber. Undergrowth, cacti.
-
- West, on a random line, bet. secs. 29 and 32.
- 40.00 Set temp. $\frac{1}{4}$ sec. cor.
- 80.26 Intersect N. and S. line, 39 lks. S. of cor. of secs. 29, 30, 31
 and 32, hereinbefore described.
- Thence I run,
 S. 89° 43' E. on a true line, bet. secs. 29 and 32.
- Over level land.
- 25.26 Cross wash, 10 lks. wide, course SE.
- 40.13 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the
 ground for $\frac{1}{4}$ sec. cor., marked on brass cap, 1911; $\frac{1}{4}$ S 29 in
 N. and S 32 in S. half; dig pits 18x18x12 ins. E. and W. of
 cor. 3 ft. dist., and raise a mound of earth 3 $\frac{1}{2}$ ft.
 base, 1 $\frac{1}{2}$ ft. high, N. of cor.

6.

Subdivision of Tp. 20 S. Rg. 25 E.

Chains.	
80.26	<p>Sec. cor. of secs. 28, 29, 32 and 33, hereinbefore described. Land, level. Soil, sandy loam over 2 ft. deep; dry; medium texture; 1st rate. No timber. No undergrowth. September 20: At this cor. I set off $1^{\circ} 42 \frac{1}{2}' N$ on the decl. arc and observe the sun on the meridian at noon; the resulting lat. is $31^{\circ} 39 \frac{1}{2}' N$.</p> <p>-----</p> <p>N. $0^{\circ} 01' E$. bet. secs. 28 and 29. Over level land.</p>
26.00	Cross wash 30 lks. wide, course 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 1911 $\frac{1}{4}$ S29 in W. and S28 in E. half; dig pits 18 x 18 x 12 ins. N. and S. of cor. 3 ft. dist., and raise a mound of earth $3 \frac{1}{2}$ ft. base, $1 \frac{1}{2}$ ft. high, W. of cor.
80.00	Set an iron post 3 ft. long, 2 ins. diam., 24 ins. in the ground for cor. of secs. 20, 21, 28 and 29, marked on brass cap, 1911 ; T20SR25E in N. half; S20 in N.W. S21 in N.E. S28 in S.E. and S29 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. Land, level. Soil, sandy loam over 2 ft. deep; dry; medium texture; 1st rate. No timber. No undergrowth.
40.00	N. $89^{\circ} 43' W$. on a random line bet. secs. 20 and 29. Set temp. $\frac{1}{4}$ sec. cor.
80.16	Intersect N. and S. line 3 lks. N. of cor. of secs. 19, 20, 29 and 30, hereinbefore described. Thence I run S. $89^{\circ} 44' E$. on a true line bet. secs. 20 and 29. Over level land.
22.96	Cross wash 20 lks. wide, course S.E.
40.08	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 1911 $\frac{1}{4}$ S20 in N. and S29 in S. half; dig pits 18 x 18 x 12 ins. E. and W. of cor. 3 ft. dist., and raise a mound of earth $3 \frac{1}{2}$ ft. base, $1 \frac{1}{2}$ ft. high, N. of cor.
80.16	The cor. of secs. 20, 21, 28 and 29, hereinbefore described. Land, level. Soil, sandy loam over 2 ft. deep; dry; medium texture; 1st rate. No timber. No undergrowth.
	September 19, 1911.

	September 20 ¹⁹¹¹ At 7h.00m. a.m., l.m.t., I set off $31^{\circ} 40 \frac{1}{2}' N$ on the lat. arc; $1^{\circ} 42 \frac{1}{2}' N$ on the decl. arc and determine a meridian with the solar at the cor. of secs. 20, 21, 28 and 29, hereinbefore described. Thence I run N. $0^{\circ} 01' E$. bet. secs. 20 and 21. Over level land.
38.50	Cross wash 40 lks. wide, course 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 1911 $\frac{1}{4}$ S20 in W. and S21 in E. half; dig pits 18 x 18 x 12 ins. N. and E. of cor. 3 ft. dist., and raise a mound of earth $3 \frac{1}{2}$ ft. base, $1 \frac{1}{2}$ ft. high, W. of cor.
55.15	Cross wash 20 lks. wide, course S.E.
80.00	Set an iron post 3 ft. long, 2 ins. in diam., 24 ins. in the ground for cor. of secs. 16, 17 20 and 21, marked on

7. Subdivision of Township 20 South, Range 25 East.

Chains.

brass cap, 1911;
 T 20 S R 25 E in N. half;
 S 17 in NW.,
 S 16 in NE.,
 S 21 in SE., and
 S 20 in SW. quadrant; dig pits 18x18x12 ins. in each
 sec. 5 1/2 ft. dist., and raise a mound of earth 4 ft. base,
 2 ft. high, W. of cor.

Land, level.
 Soil, sandy loam over 2 ft. deep, dry, medium texture; 1st
 rate.
 No timber. No undergrowth.

 N. 89°44' W. on a random line, bet. secs. 17 and 20.
 40.00 Set temp. 1/4 sec. cor.
 80.21 Intersect N. and S. line 7 lks. S. of cor. of secs. 17, 18, 19
 and 20, hereinbefore described.

Thence I run,
 S. 89°41' E. on a true line, bet. secs. 17 and 20.
 Over level land.

20.96 Cross wash, 40 lks. wide, course SE.
 40.10 1/2 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in
 the ground for 1/4 sec. cor., marked on brass cap, 1911, S 17
 in N. and S 20 in S. half; dig pits 18x18x12 ins. E. and
 W. of cor. 3 ft. dist., and raise a mound of earth 3 1/2 ft.
 base, 1 1/2 ft. high, N. of cor.

64.86 Cross wash, 8 lks. wide, course SE.
 80.21 The cor. of secs. 16, 17, 20 and 21, hereinbefore described.

Land, level.
 Soil, sandy loam, over 2 ft. deep, dry, medium texture; 1st
 rate.
 No timber. No undergrowth.

At this cor. I set off 1°19 1/2' N. on the
 decl. arc, and observe the sun on the meridian at noon;
 the resulting lat. is 31°41' N.

 N. 0°01' E. bet. secs. 16 and 17.
 Over rolling land.
 35.00 Cross wash, 30 lks. wide, course SE.
 40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in
 the ground for 1/4 sec. cor., marked on brass cap, 1911, S
 17 in W. and S 16 in E. half; dig pits, 18x18x12 ins.
 N. and S. of cor. 3 ft. dist., and raise a mound of earth
 3 1/2 ft. base, 1 1/2 ft. high, W. of cor.

78.60 Cross wash, 15 lks. wide, course E.
 80.00 Set an iron post 3 ft. long, 2 ins. in diam., 24 ins. in
 the ground for cor. of secs. 8, 9, 16 and 17, marked on
 brass cap, 1911;

T 20 S R 25 E in N. half;
 S 8 in NW.,
 S 9 in NE.,
 S 16 in SE., and
 S 17 in SW. quadrant; raise a mound of stone 2 ft.
 base, 1 1/2 ft. high, W. of cor. Pits impracticable.

Land, rolling.
 Soil, sandy loam, over 2 ft. deep, dry, medium texture;
 1st rate.
 No timber. No undergrowth.

 N. 89°41' W. on a random line, bet. secs. 8 and 17.
 40.00 Set temp. 1/4 sec. cor.
 80.30 Intersect N. and S. line at cor. of secs. 7, 8, 17 and 18, here-
 inbefore described,
 Thence I run,

S. 89°41' E. on a true line, bet. secs. 8 and 17.
 Over rolling land, through dense cacti.
 40.15 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in
 the ground for 1/4 sec. cor., marked on brass cap, 1911, S 8 in

8. Subdivision of Twp. 20 S. Rg. 25 E.

Chains.	
80.30	N. and S17 in S. half; raise a mound of stone 2 ft. base, 1½ ft. high, N. of cor. Pits impracticable.
	The cor. of secs. 8, 9, 16 and 17, hereinbefore described.
	Land, rolling.
	Soil, calcareous, 4th rate.
	No timber.
	Undergrowth, cacti, mesquite and catclaw.
	September 20, 1911.
	September 21 ¹⁹¹¹ At 7h.00m. a.m., l.m.t., I set off 31° 42' N on the lat. arc; 1° 02' ½ N on the decl. arc and determine a meridian with the solar at the cor. of secs. 8, 9, 16 and 17, hereinbefore described.

	Thence I run
	N.0° 01' E. bet. secs. 8 and 9.
	Over rolling land through dense brush.
9.50	Cross wash 10 lks. wide, course S.E.
27.00	Cross wash 20 lks. wide, course S.E.
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 ¹⁹¹¹ S8 in W. and S9 in E. half; dig pits 18 x 18 x 12 ins. N. and S. of cor. 3 ft. dist., and raise a mound of earth 3½ ft. base 1½ ft. high, W. of cor.
80.00	Set an iron post 3 ft. long, 2 ins. diam., 24 ins. in the ground for cor. of secs. 4, 5, 8 and 9, marked on brass cap, ¹⁹¹¹
	T20SR25E in N. half;
	S5 in N.W.
	S4 in N.E.
	S9 in S.E. and
	S8 in S.W. quadrant; dig pits 18 x 18 x 12 ins. in each
	sec. 5½ ft. dist., and raise a mound of earth 4 ft. base
	2 ft. high, W. of cor.
	Land, rolling.
	Soil, calcareous, 4th rate.
	No timber.
	Undergrowth, mesquite, catclaw, chico and cacti.
	At this cor. I set off 0° 56' N. on the decl. arc and observe the sun on the meridian at noon; the resulting lat. is 31° 43' N:

40.00	N.89° 41' W. on a random line bet. secs. 5 and 8
80.26	Set temp. ¼ sec. cor.
	Intersect N. and S. line 3 lks. S. of cor. of secs. 5, 6, 7 and 8, hereinbefore described
	Thence I run
	S.89° 40' E. on a true line bet. Secs. 5 and 8.
35.26	Over rolling land, through dense brush, ascend.
40.13	Top of ridge, bears N. and S., descend.
	Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for ¼ sec. cor., marked on brass cap ¹⁹¹¹ S5 in N. and S8 in S. half; raise a mound of stone 2 ft. base, 1½ ft. high, N. of cor. Pits impracticable., ascend.
74.26	Top of ridge, bears N. and S., descend.
80.26	The cor. of secs. 4, 5, 8 and 9, hereinbefore described.
	Land, rolling and hilly.
	Soil, calcareous, 4th rate.
	No timber.
	Undergrowth, mesquite and cacti.

	N.0° 01' E. bet secs. 4 and 5.
1.30	Over rolling land, through dense brush.
12.30	Cross wash 20 lks. wide, course S.E.
25.40	Cross road, bears N.W. and S.E.
40.00	Cross wash 15 lks. wide, course E.
	Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for ¼ sec. cor., marked on brass cap ¹⁹¹¹ S5 in W. and S4 in E. half; Dig pits 18 x 18 x 12 ins. N. and S. of cor. 3 ft. dist., and raise a mound of earth 3½ ft. base, 1½ ft. high, W. of cor.

Chains.	
57.00	Cross wash 50 lks. wide, course E., ascend.
68.00	Top of ridge, bears E. and W., descend.
81.96	Intersect N. bdy. of Tp. 6.39 chs. W. of $\frac{1}{4}$ sec. cor. of sec. 33, on S. bdy. of Tp. 19 S. Rg. 25 E., ^{estab. by John F. Hesse, July 25, 1911 & described in Book "A"} Set an iron post 3 ft. long, 2 ins. diam., 24 ins. in the ground for closing cor. of secs. 4 and 5, marked on brass cap, 1911;
	CC S. of center.
	T19SR25E., S32 and S33 in N. half;
	S4 in S.E. and
	S5 in S.W. quadrant; dig pits 18 x 18 x 12 ins. cross-wise of each line, E. and W. 3 ft. and S. of cor. 7 ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high S. of cor.
	Land, rolling and hilly.
	Soil, calcareous, 4th rate.
	No timber.
	Undergrowth, grease wodd, catclaw and mesquite.
	September 21, 1911

	September 22 ¹⁹¹¹ At 7h.00m. a.m., l.m.t., I set off $31^{\circ} 38\frac{1}{2}' N$ on the lat. arc; $0^{\circ} 39\frac{1}{2}' N$ on the decl. arc and determine a meridian with the solar at the Standard cor. of secs. 33, and 34. on the S. bdy. of Tp. 20 S. Rg. 25 E., reestablished by me Sept. 9, 1911 & described in Book "G"
	Thence I run
	N. $0^{\circ} 02' E.$ bet. secs. 33 and 34.
	Over level land.
2.43	Cross wash 50 lks. wide, course 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 ¹⁹¹¹ S33 in W. and S34 in E. half; dig pits 18 x 18 x 12 ins. N. and S. of cor. 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
48.55	Cross wash 12 lks. wide, course E.
80.00	Set an iron post 3 ft. long 2 ins. diam., 24 ins. in the ground for cor. of secs. 27, 28, 33 and 34, marked on brass cap, 1911;
	T20SR25E 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 2 ft. high, W. of cor.
	land, level.
	Soil, sandy loam over 2 ft. deep; dry; medium texture; 1st rate.
	No timber.
	No undergrowth.

	N. $89^{\circ} 45' W.$ on a random line bet. secs. 28 and 33.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.12	Intersect N. and S. line at the $\frac{1}{4}$ sec. cor. of secs. 28, 29, 32 and 33, hereinbefore described.
	Thence I run
	S. $89^{\circ} 45' E.$ on a true line bet. secs. 28 and 33.
	Over level land, through scattering cacti.
25.87	Cross wash 20 lks. wide, course S.E.
40.06	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 ¹⁹¹¹ S28 in N. and S33 in S. half; dig pits 18 x 18 x 12 ins. E. and W. of cor. 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
80.12	The cor. of secs. 27, 28, 33 and 34, hereinbefore described.
	Land, level.
	Soil, sandy loam over 2 ft. deep; dry; medium texture; 1st rate.
	No timber.
	Undergrowth, cacti.

10. Subdivision of Township 20 South, Range 25 East.

Chains.

- N.0°02'E., bet. secs.27 and 28.
Over level land, through scattering cacti.
- 4.50 Cross wash, 10 lks. wide, course E.
20.25 Cross wash, 20 lks. wide, course SE.
32.42 Cross wash, 15 lks. wide, course E.
40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap¹⁹¹¹ $\frac{1}{4}$ S 28 in W. and S 27 in E. half; dig pits 18x18x12 ins. N. and S. of cor. 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
- 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, 1911;
T 20 S R 25 E in N. half;
S 21 in NW.,
S 22 in NE.,
S 27 in SE., and
S 28 in SW. quadrant; dig pits 18x18x12 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.
- Land, level.
Soil, sandy loam over 2 ft. deep, dry, medium texture; 1st rate.
No timber.
Undergrowth, cacti.
- September 20: At this cor. I set off 0°33'N. on the decl. arc, and observe the sun on the meridian at noon; the resulting lat. is $31^{\circ}40\frac{1}{2}'$ N.
-
- N.89°45'W. on a random line, bet. secs. 21 and 28.
40.00 Set temp. $\frac{1}{4}$ sec. cor.
80.10 Intersect N. and S. line at cor. of secs. 20, 21, 28 and 29, hereinbefore described
Thence I run,
S.89°45'E. on a true line, bet. secs. 21 and 28.
Over level land.
- 27.30 Cross wash, 20 lks. wide, course SE.
40.05 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap¹⁹¹¹ $\frac{1}{4}$ S 21 in N., and S 28 in S. half; dig pits 18x18x12 ins. E. and W. of cor. 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
- 80.10 The cor. of secs. 21, 22, 27 and 28, hereinbefore described.
Land, level.
Soil, sandy loam over 2 ft. deep, dry, medium texture; 1st rate.
No timber.
No undergrowth.
-
- N.0°02'E. bet. secs. 21 and 22.
Over level land.
- 25.40 Cross wash, 30 lks. wide, course SE.
40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap¹⁹¹¹ $\frac{1}{4}$ S 21 in W. and S 22 in E. half; dig pits 18x18x12 ins. N. and S. of cor. 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
- 52.00 Cross wash, 50 lks. wide, course SE.
80.00 Set an iron post 3 ft. long, 2 ins. in diam., 24 ins. in the ground for cor. of secs. 15, 16, 21 and 22, marked on brass cap, 1911;
T 20 S R 25 E in N. half;
S 16 in NW.,
S 15 in NE.,
S 22 in SE., and
S 21 in SW. quadrant; dig pits 18x18x12 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.
- Land, level.
Soil, sandy loam over 2 ft deep, dry, medium texture; 1st rate.
No timber or underbrush.

Subdivision of T_p. 20 S. R_g. 25 E.

11.

Chains.	
	N.89°45'W. on a random line bet. secs. 16 and 21.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.19	Intersect N. and S. line at cor. of secs. 16, 17, 20 and 21, hereinbefore described
	Thence I run
	S.89°45'E. on a true line bet. secs. 16 and 21.
	Over level land.
10.19	Cross wash 20 lks. wide, course S.E.
33.19	Cross wash 30 lks. wide, course S.E.
38.69	Cross wash 20 lks. wide, course S.E.
40.09 $\frac{1}{2}$	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 ¹⁹¹¹ S16 in N. and S21 in S. half; dig pits 18 x 18 x 12 ins. E. and W. of cor. 3 ft. dist., and raise a mound of earth 3 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor.
48.74	Cross wash 20 lks. wide, course S.E.
80.19	The cor. of secs. 15, 16, 21 and 22, hereinbefore described.
	Land, level.
	Soil, sandy loam over 2 ft. deep; dry; medium texture; 1st rate.
	No timber.
	No undergrowth.
	September 22, 1911.

	September 23 ¹⁹¹¹ At 7h.00m. a.m., l.m.t., I set off 31°41'N. on the lat. arc; 0°16'N on the decl. arc and determine a meridian with the solar at the cor. of secs. 15, 16, 21 and 22, hereinbefore described.
	Thence I run
	N.0°02'E. bet. secs. 15 and 16.
	Over 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 ¹⁹¹¹ S16 in W. and S15 in E. half; dig pits 18 x 18 x 12 ins. N. and S. of cor. 3 ft. dist., and raise a mound of earth 3 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor.
42.00	Cross wash 30 lks. wide, course N.E.
49.00	Cross wash 50 lks. wide, course E.
80.00	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, 1911;
	T20SR25E in N. half;
	S9 in N.W.
	S10 in N.E.
	S15 in S.E. and
	S16 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.
	Land, level.
	Soil, sandy loam over 2 ft. deep; dry; medium texture; 1st rate.
	No timber.
	No undergrowth.

	N.89°45'W. on a random line bet. secs. 9 and 16.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.26	Intersect N. and S. line 11 lks. S. of cor. of secs. 8, 9, 16 and 17, hereinbefore described,
	Thence I run
	S.89°40'E. on a true line bet. secs. 9 and 16.
	Over level land.
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 ¹⁹¹¹ S9 in N. and S16 in S. half; dig pits 18 x 18 x 12 ins. E. and W. of cor. 3 ft. dist., and raise a mound of earth 3 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor.
44.91	Cross wash 20 lks. wide, course S.E.
61.26	Cross wash 30 lks. wide, course S.E.
80.26	The cor. of secs. 9, 10, 15 and 16, hereinbefore described.
	Land, level and rolling.
	Soil, sandy loam mixed with rock, 3rd rate,
	No timber or undergrowth.

12. Subdivision of Township 20 South, Range 25 East.

Chains.

- N.0°02'E., bet. secs.9 and 10.
Over level land, through scattering brush.
- 26.60 Cross wash, 15 lks.wide, course E.
- 40.00 Set an iron post 3 ft. long, 1 in in diam., 26 ins. in the ground for $\frac{1}{4}$ sec.cor., marked on brass cap¹⁹¹¹ S 9 in W. and S 10 in E.half; dig pits 18x18x12 ins. N. and S.of cor. 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high,W.of cor.
- 51.00 Cross wash, 25 lks.wide, course E.
- 63.60 Cross road, brs.NW.and SE.
- 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,1911;
T 20 S R 25 E in N.half;
S 4 in NW.,
S 3 in NE.,
S 10 in SE., and
S 9 in SW. quadrant; dig pits 18x18x12 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.
- Land, level.
Soil, sandy loam, over 2 ft. deep, dry,medium texture; 1st rate.
No timber.
Undergrowth, mesquite and cacti.
Bearing: At this cor.I set off 0°09 $\frac{1}{2}$ 'N.on the decl. arc; and observe the sun on the meridian at noon;the resulting lat.is 31°43'N.
-
- N.89°40'W. on a random line, bet. secs.4 and 9.
- 40.00 Set temp. $\frac{1}{4}$ sec.cor.
- 80.32 Intersect N.and S. line 5 lks.N.of cor.of secs .4,5,8 and 9,hereinbefore described
Thence I run,
S.89°42'E. on a true line, bet. secs.4 and 9.
Over level land, through scattering brush.
- 1.02 Cross wash, 20 lks.wide, course SE.
- 4.32 Cross wash, 15 lks.wide, course SE.
- 33.02 Cross wash 10 lks.wide, course SE.
- 40.16 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for $\frac{1}{4}$ sec.cor., marked on brass cap¹⁹¹¹ S 4 in N. and S 9 in S.half; dig pits 18x18x12 ins.E.and W.of cor. 3 ft.dist., and raise a mound of earth $3\frac{1}{2}$ ft. $1\frac{1}{2}$ ft. high,N.of cor.
- 43.92 Cross wash, 15 lks.wide, course SE.
- 67.92 Cross wash,12 lks.wide, course SE.
- 75.82 Cross road, brs.NW.and SE.
- 80.32 The cor.of secs.3,4,9 and 10,hereinbefore described.
Land,level.
Soil, sandy loam, over 2 ft.deep; dry,medium texture;1st rate.
No timber.
Undergrowth, mesquite, catclaw and cacti.
-
- N.0°02'E., bet. secs.3 and 4.
Over level land, through dense brush.
- 13.00 Cross road, brs. NW.and SE.
- 40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for $\frac{1}{4}$ sec.cor., marked on brass cap¹⁹¹¹ S 4 in W. and S 3 in E.half; dig pits 18x18x12 ins. N. and S.of cor. 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft.base, $1\frac{1}{2}$ ft. high,W.of cor.
- 53.00 Cross road, brs. E.and W.
- 78.40 Cross wash, 20 lks.wide, course E.
- 82.54 Intersect N.bdy.of Tp., 6.30 chs.W.of $\frac{1}{4}$ sec.cor.of sec. 34 on S.bdy.of T.19 S., R.25 E.,established by John F.Hesse July 25,1911 as described in Book 'A'
Set an iron post 3 ft.long, 2 ins.diam., 24 ins. in the ground for closing cor. of secs. 3 and 4, marked on brass cap,1911;
C C,S of center,
T 19 S R 25 E,
S 33 and

Chains.

S34 in N. half;
 S3 in S.E. and
 S4 in S.W. quadrant; raise a mound of stone 2 ft. base,
 1½ ft. high, S. of cor. Pits impracticable.
 Land, level.
 Soil, sandy loam mixed with rock, 3rd rate.
 No timber.
 Undergrowth, mesquite, catclaw and cacti.
 September 23, 1911.

September 25¹⁹¹¹ At 7h.00m a.m. l.m.t., I set off 31° 38½' N.
 on the lat arc; 0° 31' S. on the decl. arc and determine
 a meridian with the solar at the ^{standard} cor. of secs. 34 and 35
 on the S. bdy. of Tp. 20 S. Rg. 25 E., re-established by me Sept. 9, 1911
 & described in Book "G"

Thence I run
 N.0° 02' E. bet. secs. 34 and 35.

Over level land

1.68 Cross wash 10 lks. wide, course E.
 22.92 Cross wash 15 lks. wide, course E.
 30.00 Cross wash 15 lks. wide, course E.
 40.00 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the
 ground for ¼ sec. cor., marked on brass cap¹⁹¹¹ S34 in W.
 and S35 in E. half; dig pits 18 x 18 x 12 ins. N. and S.
 of cor. 3 ft. dist., and raise a mound of earth 3½ ft.
 base, 1½ ft. high, W. of cor.
 53.60 Cross wash 10 lks. wide, course E.
 54.72 Cross wash 10 lks. wide, course E.
 67.60 Cross wash 12 lks. wide, course E.
 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 cap¹⁹¹¹;
 T20SR25E in N. half;
 S27 in N.W.
 S26 in N.E.
 S35 in S.E. and
 S34 in S.W. quadrant; dig pits 18 x 18 x 12 ins. in each
 sec. 5½ ft. dist., and raise a mound of earth 4 ft. base
 2 ft. high, W. of cor.
 Land, level.
 Soil, sandy loam over 2 ft. deep; dry; medium texture;
 1st rate.
 No timber.
 No undergrowth.

N89° 45' W. on a random line bet. secs. 27 and 34.

40.00 Set temp. ¼ sec. cor.
 80.24 Intersect N. and S. line 5 lks. S. of cor. of 7 sets, 27,
 28, 33, and 34, hereinbefore described.

Thence I run

S.89° 43' E. on a true line bet. secs. 27 and 34.
 Over level land, through scattering brush.
 7.24 Cross wash 50 lks. wide, course SE.
 40.12 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the
 ground for ¼ sec. cor., marked on brass cap¹⁹¹¹ S27 in N.
 and S34 in S. half; dig pits 18 x 18 x 12 ins. E. and W.
 of cor. 3 ft. dist., and raise a mound of earth 3½ ft.
 base, 1½ ft. high, N. of cor.
 45.74 Cross wash 10 lks. wide, course SE.
 80.24 The cor. of secs. 26, 27, 34 and 35, hereinbefore described.
 Land, level.
 Soil, sandy loam over 2 ft. deep; dry; medium texture;
 1st rate.
 No timber.
 Undergrowth, cacti.

At this cor. I set off 0° 37½' S. on the
 decl. arc and observe the sun on the meridian at noon;
 the resulting lat. is 31° 39½' N.

N.0° 02' E. bet. secs. 26 and 27.

Over level land.

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

14. Subdivision of Township 20 South, Range 25 East.

Chains.

- ground for $\frac{1}{4}$ sec. cor., marked on brass cap ¹⁹¹¹ $\frac{1}{4}$ S 27 in W. and S 26 in E. half; dig pits 18x18x12 ins. N. and S. of cor. 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
- 80.00 Point for cor. falls in wash 30 lks. wide, course SE.
- 81.00 Set an iron post 3 ft. long, 2 ins. in diam., 24 ins. in the ground for witness cor. to cor. of secs. 22, 23, 26 and 27, marked on brass cap, 1911;
W C, N. of center,
T 20 S R 25 E in N. half;
S 22 in NW.,
S 23 in NE.,
S 26 in SE., and
S 27 in SW. quadrant; dig pits 18x18x12 ins. NW., NE., SE. and SW. of witness cor. $5\frac{1}{2}$ ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high, W. of cor.
- Land, level.
Soil, sandy loam, over 2 ft. deep; dry, medium texture; 1st rate.
No timber.
No undergrowth.
- From the true point for the cor. of secs. 22, 23, 26 & 27, I run,
N. $89^{\circ}43'$ W. on a random line, bet. secs. 22 and 27.
- 40.00 Set temp. $\frac{1}{4}$ sec. cor.
- 80.26 Intersect N. and S. line, 11 lks. N. of cor. of secs. 21, 22, 27 and 28, hereinbefore described,
Thence I run,
S. $89^{\circ}48'$ E. on a true line, bet. secs. 22 and 27.
Over level land, through scattering cacti.
- 40.13 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap ¹⁹¹¹ $\frac{1}{4}$ S 22 in N. and S 27 in S. half; dig pits 18x18x12 ins. E. and W. of cor. 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
- 58.46 Cross wash, 20 lks. wide, course SE.
- 80.26 The true point for cor. of secs. 22, 23, 26 and 27.
Land, level.
Soil, sandy loam, over 2 ft. deep; dry, medium texture; 1st rate.
No timber.
Undergrowth, cacti.
- September 25, 1911.
- September 27: ¹⁹¹¹ At 7h.00m. a.m., 1.m.t., I set off $31^{\circ}40\frac{1}{2}'$ N. on the lat. arc; $1^{\circ}17\frac{1}{2}'$ S. on the decl. arc, and determine a meridian with the solar at the ¹⁹¹¹ cor. of secs. 22, 23, 26 and 27, ~~hereinbefore described,~~ true point for
Thence I run,
N. $0^{\circ}02'$ E. bet. secs. 22 and 23.
Over level land through scattering cacti, and through
Witness cor. to ^{cor. of} secs. 22, 23, 26 & 27, hereinbefore described.
- 1.00
- 31.50 Cross wash, 60 lks. wide, course E.
- 40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap ¹⁹¹¹ $\frac{1}{4}$ S 22 in W. and S 23 in E. half; dig pits 18x18x12 ins. N. and S. of cor. 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
- 52.20 Cross wash, 15 lks. wide, course E.
- 80.00 Set an iron post 3 ft. long, 2 ins. diam., 26 ins. in the ground for cor. of secs. 14, 15, 22 and 23, marked on brass cap, 1911;
T 20 S R 25 E in N. half;
S 15 in NW.,
S 14 in NE.,
S 23 in SE., and
S 22 in SW. quadrant; dig pits 18x18x12 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.
- Land, level.
Soil, sandy loam over 2 ft. deep; dry, medium texture; 1st rate.
No timber, Undergrowth, cacti.
-

15. Subdivision of Township 20 South, Range 25 East.

15

Chains.

N.89°48'W. on a random line, bet. secs.15 and 22.
 40.00 Set temp. ¼ sec.cor.
 80.24 Intersect N.and S. line 3 lks.N.of cor.of secs.15,16,21
 and 22,hereinbefore described,
 Thence I run,
 S.89°49'E.on a true line, bet. secs.15 and 22.
 Over level land, through scattering cacti.
 16.40 Cross wash, 8 lks.wide, course SE.
 40.12 Set an iron post 3 ft. long, 1 in. in diam., 26 ins.in
 the ground for ¼ sec.cor., marked on brass cap,¹⁹¹¹ ¼ S
 15 in N., and S 22 in S.half; dig pits 18x18x12
 ins. E.and W.of cor.3 ft dist., and raise a mound of
 earth 3½ ft.base, 1½ ft. high,N.of cor.
 62.30 Cross wash, 8 lks.wide, course SE.
 80.24 The cor.of secs.14,15,22 and 23,hereinbefore described.
 Land,level.
 Soil, sandy loam over 2 ft.deep; dry,medium texture;1st
 rate.
 No timber. Undergrowth, cacti.
 At this cor.I set off 1°-24½'S on the
 decl.arc, and observe the sun on the meridian at
 noon; the resulting lat.is 31° 41'N.

N.0.°02'E., bet. secs.14 and 15.
 Over level land, through dense cacti.
 12.40 Cross wash, 12 lks.wide, course NE.
 18.00 Cross wash, 50 lks.wide, course SE.
 38.40 Cross road, bears NW.and SE.
 40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in
 the ground for ¼ sec.cor., marked on brass cap,¹⁹¹¹ ¼ S
 15 in W. and S 14 in E.half; dig pits 18x18x12 ins.
 N.and S.of cor.3 ft. dist., and raise a mound of earth
 3½ ft. base, 1½ ft. high,W.of cor.
 80.00 Set an iron post 3 ft. long, 2 ins. in diam., 24 ins. in
 the ground for cor.of secs.10,11,14 and 15, marked on
 brass cap,¹⁹¹¹;
 T 20 S R 25 E in N.half;
 S 10 in NW.,
 S 11 in NE.,
 S 14 in SE., and
 S 15 in SW. quadrant; dig pits 18x18x12 ins.in each
 sec.5½ ft. dist., and raise a mound of earth 4 ft. base,
 2 ft.high,W.of cor.
 Land,level.
 Soil, sandy loam over 2 ft. deep; dry, medium texture;1st
 rate.
 No timber.
 Undergrowth, cacti.

September 27, 1911.

September 28:¹⁹¹¹ At 7h.00m.a.m.,l.m.t., I set off 31°42'N.
 on the lat.arc; 1°41'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.89°48'W. on a random line, bet. secs.10 and 15.
 40.00 Set temp. ¼ sec.cor.
 80.20 Intersect N.and S. line 5 lks.N.of cor.of secs.9,10,15
 and 16,hereinbefore described,
 Thence I run,
 S.89°51'E. on a true line, bet. secs.10 and 15.
 Over level land, through dense cacti.
 37.65 Cross wash,30 lks.wide, course SE.
 40.10 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in
 the ground for ¼ sec.cor., marked on brass cap,¹⁹¹¹ ¼ S 10
 in N. and S 15 in S.half; dig pits 18x18x12 ins.N.
 and S.of cor. 3 ft.dist., and raise a mound of earth
 3½ ft.base, 1½ ft. high.N.of cor.
 80.20 The cor.of secs.10,11,14 and 15,hereinbefore described.
 Land,level.
 Soil, sandy loam, over 2 ft. deep; dry,medium texture ;

16. Subdivision of Tp. 20 S. Rg. 25 E.

Chains.	
	1st rate. No timber. Undergrowth, cacti.
	----- N.0°02'E. bet. secs. 10 and 11. Over level land, through dense brush.
24.40	Cross wash 9 lks. wide, course S.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 ¹⁹¹¹ S10 in W. and S11 in E. half; dig pits 18 x 18 x 12 ins. N. and S. of cor. 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
54.00	Cross wash 20 lks. wide, course S.E.
67.37	Cross road, bears E. and W.
78.20	Cross wash 15 lks. wide, course E.
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, 1911; T20SR25E in N. half; S3 in N.W. S2 in N.E. S11 in S.E. and S10 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. Land, level. Soil, sandy loam over 2 ft. deep; dry; medium texture; 1st rate. No timber. Undergrowth, mesquite and cacti. At this cor. I set off $1^{\circ}47\frac{1}{2}'S$ on the decl. arc and observe the sun on the meridian at noon; the resulting lat. is $31^{\circ}43'N$.
	----- N.89°51'W. on a random line bet. secs. 3 and 10
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.16	Intersect N. and S. line at cor. of secs. 3, 4, 9, and 10 hereinbefore described, Thence 1 run, S.89°51'E. on a true line bet. secs. 3 and 10
	Over level land, through dense brush,
34.16	Cross road, bears N.W. and S.E.
40.08	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 ¹⁹¹¹ S3 in N. and S10 in S. half; dig pits 18 x 18 x 12 ins. E. and W. of cor. 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
80.16	The cor. of secs. 2, 3, 10 and 11, hereinbefore described. Land, level Soil, sandy loam over 2 ft. deep; dry; medium texture; 1st rate. No timber. Undergrowth, mesquite and cacti.
	----- N.0°02'E. bet. secs. 2 and 3.
	Over level land, through dense brush.
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 ¹⁹¹¹ S3 in W. and S2 in E. half; dig pits 18 x 18 x 12 ins. N. and S. of cor. 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
41.00	Cross road, bears N.W. and S.E.
58.51	Cross road, bears E. and W.
59.15	Cross road, bears N.W. and S.E.
67.20	Cross wash 20 lks. wide, course E.
82.80	Intersect N. bdy. of Tp. 6.09 chs. W. of $\frac{1}{4}$ sec. cor. of sec. 35, on S. bdy. of Tp. 19 S. Rg. 25 E. <small>established John F. Hesse July 25, 1911, & described in Book "A"</small> Set an iron post 3 ft. long, 2 ins. diam., 24 ins. in the ground for closing cor. of secs. 2 and 3, marked on brass cap, 1911; CC S. of center.

Chains.

T19SR25E.,
 S34 and
 S35 in N. half;
 S2 in S.E. and
 S3 in S.W. quadrant; dig pits 24 x 18 x 12 ins. cross-wise of each line, E. and W. 3 ft. and S. of cor. 7 ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high S. of cor.
 Land, level.
 Soil, sandy loam over 2 ft. deep; dry; medium texture; 1 st. rate.
 No timber.
 Undergrowth, mesquite and cacti.

September 28, 1911.

September 26¹⁹¹¹ At 7h.00m. a.m. 1.m.t. I set off $31^{\circ} 38\frac{1}{2}' N.$ on the lat/ arc; $0^{\circ} 54\frac{1}{2}' S$ on the decl. arc and determine a meridian with the solar at the cor. of secs 35, and 36 on the S. bdy. of Tp. 20 S. Rg. 25 E. ^{re-estab. by me Sept. 9, 1911} & described in Book 'G'

Thence I run

N. $0^{\circ} 03' E.$ bet. secs. 35 and 36.

Over level land, through dense brush

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 ¹⁹¹¹ S35 in W. and S36 in E. half; dig pits 18 x 18 x 12 ins. N. and S. of cor. 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, W. of cor.

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, 1911;

T20SR25E in N. half;

S26 in N.W.

S25 in N.E.

S36 in S.E. and

S35 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.

Land, level.

Soil, sandy loam over 2 ft. deep; dry; medium texture; 1st rate.

No timber.

Undergrowth, mesquite.

N. $89^{\circ} 45' W.$ on a random line bet. secs. 26 and 35.

40.00 Set temp. $\frac{1}{4}$ sec. cor.

80.14 Intersect N. and S. line 12 lks. N. of cor. of secs. 26 27, 34 and 35, hereinbefore described

Thence I run

S. $89^{\circ} 50' E.$ on a true line bet. secs. 26 and 35.

Over level land,

39.64 Arizona and Eastern R.R., bears N.E. and S.W.

40.07 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 ¹⁹¹¹ S26 in N. and S35 in S. half; dig pits 18 x 18 x 12 ins. E. and W. of cor. 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, N. of cor.

42.50 Enter dense brush.

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

Land, level.

Soil, sandy loam over 2 ft. deep; dry; medium texture; 1st rate.

No timber.

Undergrowth, mesquite.

At this cor. I set off $1^{\circ} 01' S$ on the decl. arc and observe the sun on the meridian at noon; the resulting lat. is $31^{\circ} 39\frac{1}{2}' N.$

S. $89^{\circ} 45' E.$ on a random line bet. secs. 25 and 36

40.00 Set temp. $\frac{1}{4}$ sec. cor.

77.07 Intersect E. bdy. of Tp. 18 lks. S. $2^{\circ} 07' E.$ of cor. of secs. 25, 30, 31 and 36, re-established by me Sept. 13, 1911 & described in Notes of Resurvey of E. bdy. of Tp. 20 S. R. 25 E., hereto attached, Thence I run,

18. Subdivision of Township 20 South. Range 25 East.

Chains.

- N.89°53'W. on a true line, bet.secs.25 and 36.
Over level land, through dense brush.
- 0.91 Fence, bears N.and S.
16.87 Cross road, bears N.and S.
37.07 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for $\frac{1}{4}$ sec.cor., marked on brass cap¹⁹¹¹ S 25 in N. and S 36 in S.half; dig pits 18x18x12 ins.E.and W.of cor. 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft.base, $1\frac{1}{2}$ ft. high,N.of cor.
- 77.07 The cor.of secs.25,26,35 and 36, hereinbefore described.
Land, level.
Soil, sandy loam, over 2 ft.deep; dry, medium texture; 1st rate.
No timber.
Undergrowth, mesquite.
-
- N.0°03'E., bet. secs.25 and 26.
Over level land, through dense brush.
- 10.33 Cross wash, 10 lks.wide, course E.
40.00 Point for cor.falls in wash, 30 lks.wide, course E.
42.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for witness cor.¹⁹¹¹ $\frac{1}{4}$ sec.cor., marked on brass cap¹⁹¹¹ C $\frac{1}{4}$ in S.half; S 26 in NW. and S 25 in NE.quadrants; dig pits 18x18x12 ins. N.and S.of cor.3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high,W.of cor.
- 51.55 Cross wash, 8 lks.wide, course E.
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, 1911;
T 20 S R 25 E in N. half;
S 23 in NW.,
S 24 in NE.,
S 25 in SE., and
S 26 in SW. quadrant; dig pits 18x18x12 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.
- Land, level.
Soil, sandy loam over 2 ft.deep; dry, medium texture; 1st rate.
No timber.
Undergrowth, mesquite.
- September 26, 1911.
-
- September 27:¹⁹¹¹ N.89°50'W.on a random line, bet.secs.23 and 26.
- 40.00 Set temp. $\frac{1}{4}$ sec.cor.
80.12 Intersect N.and S. line, 5 lks.N.of true point for cor.of secs. 22, 23, 26 and 27, hereinbefore described,
Thence I run,
S.89°52'E. on a true line, bet. secs.23 and 26.
Over level land.
- 40.06 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for $\frac{1}{4}$ sec.cor.; marked on brass cap¹⁹¹¹ S 23 in N. and S 26 in S.half; dig pits 18x18x12 ins.E.and W.of cor. 3 ft.dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high,N.of cor.
- 50.80 Arizona and Eastern R.R. bears NE.and SW.
80.12 The cor.of secs.23,24,25 and 26, hereinbefore described.
Land, level.
Soil, sandy loam over 2 ft. deep; dry, medium texture; 1st rate.
No timber.
No undergrowth.
- September 27, 1911.
-
- September 29:¹⁹¹¹ At 7h.00m.a.m., 1.m.t., I set off $31^{\circ}40\frac{1}{2}'$ N. on the lat.arc; $2^{\circ}04\frac{1}{2}'$ 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,

19. Subdivision of Township 20 South, Range 25 East.

See Supplemental Notes of
this mile, hereto attached

Chains.

S.89°53'E. on a random line bet. secs.24 and 25.
 40.00 Set temp. $\frac{1}{4}$ sec.cor.
 73.84 Intersect E.bdy.of Tp.28 lks.S.of cor.of secs.19,24,25
 and 30.
 Thence I run,
 S.89°55'W.on a true line,bet.secs.24 and 25.
 Over level land,through dense brush.
 2.69 Cross road, bears NE.and SW.
 33.84 Set an iron post 3 ft.long, 1 in. in diam., 26 ins. in
 the ground for $\frac{1}{4}$ sec.cor., marked on brass cap¹⁹¹¹ S 24
 in N. and S 25 in S.half; dig pits 18x18x12 ins.E.and
 W.of cor. 3 ft. dist., and raise a mound of earth 3 $\frac{1}{2}$ ft.
 base, 1 $\frac{1}{2}$ ft. high,N.of cor.
 58.54 Cross wash, 20 lks.wide, course SE.
 73.34 Cross road, bears N.and S.
 73.84 The cor.of secs.23,24,25 and 26.
 Land,level.
 Soil, sandy loam over 2 ft.deep; dry,medium texture;1st
 rate.
 No timber.
 Undergrowth, mesquite.

N.0°03'E., bet. secs.23 and 24.
 Over level land, through dense brush.
 9.55 Cross road, bears NW.and SE.
 18.40 Cross wash,40 lks.wide, course E.
 29.60 Cross wash, 40 lks.wide, course E.
 40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in
 the ground for $\frac{1}{4}$ sec.cor., marked on brass cap¹⁹¹¹ S 23
 in W. and S 24 in E.half; dig pits 18x18x12 ins.N.and
 S.of cor. 3 ft. dist., and raise a mound of earth 3 $\frac{1}{2}$ ft.
 base; 1 $\frac{1}{2}$ ft. high,W.of cor,
 70.00 Cross wash, 15 lks.wide, course E.
 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,1911;
 T 20 S R 25 E in N.half;
 S 14 in NW.,
 S 13 in NE.,
 S 24 in SE., and
 S 23 in SW. quadrant; dig pits 18x18x12 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.
 Land,level.
 Soil, sandy loam over 2 ft.deep; dry, medium texture;1st
 rate.
 No timber.
 Undergrowth, mesquite.

At this cor. I set off 2°11'S.on the decl.
 arc; and observe the sun on the meridian at noon;the
 resulting lat.is 31°41'N.

N.89°52'W.on a random line, bet. secs.14 and 23.
 40.00 Set temp. $\frac{1}{4}$ sec.cor.
 80.06 Intersect N.and S.line 7 lks.N.of cor.of secs.14,15,22
 and 23,hereinbefore described,
 Thence I run,
 S.89°55'E. on a true line, bet.secs. 14 and 23.
 Over level land, through cacti.
 23.25 Cross road, brs. N.and S.
 35.00 Wash,10.00 chs.wide, course SE.
 40.03 Point for $\frac{1}{4}$ sec.cor.falls in wash.
 47.00 Set an iron post 3 ft.long, 1 in. in diam., 26 ins.in the
 ground for witness cor.to $\frac{1}{4}$ sec.cor.of secs.14 and 23,
 marked on brass cap¹⁹¹¹ W C $\frac{1}{4}$ in W.half; S 14 in NW.and
 S 23 in SW. quadrant; dig pits 18x18x12 ins.E.and W.
 of cor.3 ft.dist., and raise a mound of earth 3 $\frac{1}{2}$ ft.
 base, 1 $\frac{1}{2}$ ft. high,N.of cor.
 62.00 Arizona and Eastern R.R., bears N.8°02'E. and S.8°02'W.
 80.06 The cor.of secs.13,14,23 and 24,hereinbefore described.
 Land,level.
 Soil, sandy loam over 2 ft. deep; dry,medium texture.

20. Subdivision of Tp. 20 S. Rg. 25 E.

Chains.	
	<p>1st rate.</p> <p>No timber.</p> <p>Undergrowth, mesquite</p> <p>-----</p> <p>on a true line</p> <p>East bet. secs. 13 and 24.</p>
40.00	<p>Over level land, through dense brush.</p> <p>Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap¹⁹¹¹ S13 in N. and S24 in S. half; dig pits 18 x 18 x 12 ins. E. and W. of cor. 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, N. of cor.</p>
70.88	<p>Intersect E. bdy. of Tp. 1.21 chs, S. 02⁰07⁰E. of ^{cor. of} secs. 18 and 19, T.20S-R.26 E. re-established by me Sept. 13, 1911, & described in Notes of resurvey of E. bdy. of T.20S-R.25E. here to attached</p> <p>Set an iron post 3 ft. long, 2 ins. diam., 24 ins. in the ground for closing cor. of secs. 13 and 24, marked on brass cap, 1911;</p> <p>CC W. of center.</p> <p>T20S in N. and S18, S19, R26E in E. half; S13 in N.W. and S24, R25E in S.W. quadrant; dig pits 24 x 18 x 12 ins. crosswise on each line, N. and S. 3 ft. and W. of cor. 7 ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high, W. of cor.</p> <p>Land, level.</p> <p>Soil, sandy loam over 2 ft. deep; dry; medium texture; 1st rate.</p> <p>No timber.</p> <p>Undergrowth, mesquite and catclaw.</p> <p style="text-align: right;">September 29, 1911.</p>
	<p>-----</p> <p>September 30¹⁹¹¹ At 7h.00m. a.m. l.m.t., I set off 31° 41' N. on the lat. arc; 2° 28' 15" on the decl. arc and determine a meridian with the solar at the cor. of secs. 13, 14, 23 and 24, hereinbefore described</p> <p>Thence I run</p> <p>N.0° 03' E. bet secs. 13 and 14.</p>
19.50	<p>Over level land, through dense brush.</p> <p>Cross road, bears E. and W.</p>
26.40	<p>Cross wash 12 lks. wide, course E.</p>
40.00	<p>Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap¹⁹¹¹ S14 in W. and S13 in E. half; dig pits 18 x 18 x 12 ins. N and S. of cor. 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, W. of cor.</p>
57.50	<p>Cross wash 10 lks. wide, course E.</p>
67.50	<p>Cross wash 10 lks. wide, course E.</p>
80.00	<p>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, 1911;</p> <p>T20SR25E in N. half;</p> <p>S11 in N.W.</p> <p>S12 in N.E.</p> <p>S13 in S.E. and S14 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.</p> <p>Land, level.</p> <p>Soil, sandy loam over 2 ft. deep; dry; medium texture; 1st rate.</p> <p>No timber.</p> <p>Undergrowth, mesquite.</p> <p>-----</p>
40.00	<p>N. 89° 55' W. on a random line bet. secs. 11 and 14.</p> <p>Set temp. $\frac{1}{4}$ sec. cor.</p>
79.94	<p>Intersect N. and S. line 10 lks. N. of cor. of secs. 10, 11, 14 and 15, hereinbefore described</p> <p>Thence I run</p> <p>S. 89° 59' E. on a true line bet. secs. 11 and 14</p>
31.05	<p>Over level land, through scattering brush.</p> <p>Cross road, bears N. and S.</p>

21. Subdivision of Township 20 South, Range 25 East.

Chains.

37.10 Cross road, bears N. and S.
 39.97 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap $1911 \frac{1}{4}$ S 11 in N. and S 14 in S. half; dig pits, 18x18x12 ins. E. and W. of cor. 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
 71.00 Cross wash, 8 lks. wide, course SE.
 73.05 Arizona and Eastern R.R., bears NE. and SW.
 79.94 The cor. of secs. 11, 12, 13 and 14, herein before described.
 Land, level.
 Soil, sandy loam over 2 ft. deep; dry, medium texture; 1st rate.
 No timber. Undergrowth, mesquite and cacti.
 At this cor. I set off $2^{\circ}34\frac{1}{2}'$ S. on the decl. arc; and observe the sun on the meridian at noon; the resulting lat. is $31^{\circ}42'$ N.

on a true line

East, bet. secs. 12 and 13.
 Over level land, through dense brush.
 40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap $1911 \frac{1}{4}$ S 12 in N. and S 13 in S. half; dig pits 18x18x12 ins. E. and W. of cor. 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
 67.62 Intersect E. bdy. of Tp. 1.85 chs. S. $2^{\circ}07'$ E. of cor. of secs. 7 and 18, T. 20 S. R. 26 E., re-established by me Sept. 13, 1911, as described in Notes of Resurvey of E. bdy. of T. 20 S. R. 25 E. hereto attached
 Set an iron post 3 ft. long, 2 ins. diam., 24 ins. in the ground for closing cor. of secs. 12 and 13, marked on brass cap, 1911;
 C C, W of center,
 T. 20 S in N., and
 S 7, S 18, R 26 E in E. half;
 S 12 in NW., and
 S 13, R 25 E in SW. quadrant; dig pits 24x18x12 ins., crosswise on each line, N. and S. 3 ft., and W. of cor. 7 ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high, W. of cor.
 Land, level.
 Soil, sandy loam, over 2 ft. deep; dry, medium texture; 1st rate.
 No timber; undergrowth, mesquite.

N. $0^{\circ}03'$ E, bet. secs 11 and 12.

Over level land, through dense brush,
 40.00 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap $1911 \frac{1}{4}$ S 11 in W. and S 12 in E. half; dig pits 18x18x12 ins. N. and S. of cor. 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
 48.63 Arizona and Eastern R.R., bears NE. and SW.
 51.25 Cross wash, 20 lks. wide, course E.
 55.45 Cross road, bears E. and 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, 1911;
 T 20 S R 25 E in N. half;
 S 2 in NW.,
 S 1 in NE.,
 S 12 in SE., and
 S 11 in SW. quadrant; dig pits 18x18x12 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.
 Land, level.
 Soil, sandy loam over 2 ft. deep; dry, medium texture; 1st rate.
 No timber. Undergrowth, mesquite.

September 30, 1911.

22. Subdivision of Tn. 20 S. Rg. 25 E.

Chains.	
	October 2, 1911 At 7h.00m. a.m. l.m.t., I set off $31^{\circ}43'N$ on the lat. arc; $3^{\circ}14'S$ on the decl. arc and determine a meridian with the solar at the cor. of secs. 1, 2, 11 and 12, hereinbefore described
	Thence I run
	N. $89^{\circ}59'W$. on a random line bet. secs. 2 and 11.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.06	Intersect N. and S. line 7 lks. N. of cor. of secs. 2, 3 10 and 11, hereinbefore described
	Thence I run
	N. $89^{\circ}58'E$. on a true line bet. secs. 2 and 11
	Over level land, through dense brush.
10.37	Cross road, bears N. and S.
40.03	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 $1911S2$ in N. and S11 in S. half; dig pits 18 x 18 x 12 ins. E. and W. of cor. 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
50.10	Cross road, bears N. and S.
80.06	The cor. of secs. 1, 2, 11 and 12, hereinbefore described.
	Land, level.
	Soil, sandy loam over 2 ft. deep; dry; medium texture; 1st rate.
	No timber.
	Undergrowth, mesquite and cacti.
	----- on a true line
	East bet. secs. 1 and 12.
	Over level land, through dense brush.
4.22	Cross Arizona and Eastern R.R., bears N.E. and S.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 $1911S1$ in N. and S12 in S. half; dig pits 18 x 18 x 12 ins. E. and W. of cor. 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
64.68	Intersect E. bdy. of Tp. 2.29 chs. $S.2^{\circ}07'E$. of cor. of secs. 6 and 7, T.20S; R.26E, reestablished by me Sept. 13, 1911 & described in Notes of Resurvey of E. bdy. of T.20S; R.25E, hereto attached
	Set an iron post 3 ft. long, 2 ins. diam., 24 ins. in the ground for closing cor. of secs. 1 and 12, marked on brass cap, 1911;
	CC W. of center.
	T20S in N. and
	S6, S7, R26E in E. half;
	S1 in N.W. and
	S12, R25E in S.W. quadrant; dig pits 24 x 18 x 12 ins. crosswise on each line, N. and S. 3 ft., and W. of cor. 7 ft. dist., and raise a mound of earth 4 ft. base, 2 ft high, W. of cor.
	Land, level.
	Soil, sandy loam over 2 ft. deep; dry; medium texture; 1st rate.
	No timber.
	Undergrowth, mesquite.
	Cor. 12: At this cor. I set off $3^{\circ}21'S$ on the decl. arc and observe the sun on the meridian at noon; the resulting lat. is $31^{\circ}43'N$.

	N. $0^{\circ}03'E$. bet secs. 1 and 2.
	Over level land, through dense brush.
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 $1911S2$ in W. and S1 in E. half; dig pits 18 x 18 x 12 ins. N. and S. of cor. 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
54.08	Cross road, bears E. and W.
65.00	Cross road, bears E. and W.
75.62	Cross wash 10 lks. wide, course E.
82.76	Intersect N. bdy. of Tp. 6.09 chs. W. of $\frac{1}{4}$ sec. cor. of Secs. 36, 6th S. bdy. of Tp. 19 S. Rg 25 E. established by John F. Hesse, July 25, 1911, & described in Book "A"
	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, 1911;

Chains.

CC S. of center.
 T19SR25E. S35 and
 S36 in N. half;
 S1 in S.E. and
 S2 in S.W. quadrant; dig pits 24 x 18 x 12 ins. cross-
 wise on each line, E. and W. 3 ft. and S. of cor. 7 ft.
 dist., and raise a mound of earth 4 ft. base, 2 ft. high
 S. of cor.
 Land, level.
 Soil, sandy loam over 2 ft. deep; dry; medium texture;
 1st rate.
 No timber.
 Undergrowth, mesquite.

October 2, 1911.

Alfred N. Oliver

U.S. Transitman.

General Description.

This township is hilly in the northwestern part, the rest
 of the township is rolling and level sloping to the east.
 The soil generally is a sandy loam capable, with irriga-
 tion, of producing abundant crops. There is no water
 or timber in the township.

Resurvey of East Boundary of Tp. 20S. Rg. 25 E.

Chains.

Survey commenced September 6, 1911 and executed with a W. and L.E. Gurley solar compass, not numbered. The horizontal limb is provided with two double verniers placed opposite to each other reading to single minutes of the arc, which is also the least count of the verniers of the latitude and declination arcs.

The instrument was examined and approved by the Supervising Surveyor.

I examine the adjustments of the compass and find them correct; then, to test the solar apparatus, by comparing its indications, resulting from solar observations made during a.m. and p.m. hours, with a meridian determined by observations on Polaris, I proceed as follows;

At camp near the cor. of Tps. 19 and 20 S., Rgs. 25 and 26 E. latitude 31°44'N., longitude 109°45½'W., I set off 31°44'N. on the lat. arc; 6°36½'N on the decl. arc and at 5h.00m. p.m. l.m.t., determine with the solar a meridian and mark a point thereof, on a stone firmly set in the ground 5 chs. N. of my station.

At 5h.32m. p.m. by my watch, which has correct l.m.t. I observe Polaris at eastern elongation, in accordance with the 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

September 6, 1911.

September 7¹⁹¹¹ At 6h.30m. a.m. l.m.t., I lay off the azimuth of Polaris, 1°22' to the west and mark the meridian thus determined, by cutting a small groove in the stone set September 6, on which the meridian coincides with the mark determined by the solar.

At 7h.00m. a.m. l.m.t., I set off 31°44'N. on the lat. arc; 6°23½'N on the decl. arc and mark a point in the stone already set 5 chs. N. of my station; this mark coincides with the meridian established by the Polaris observations.

The solar apparatus by p.m. and a.m. observations defines positions for meridians which coincide with the meridian determined by Polaris observations; therefore, I conclude that the adjustments of the instrument are satisfactory.

The magnetic bearing of the true meridian at 7h.15m. a.m. l.m.t., is N 13°15'W. the angle thus determined gives the mag. decl. 13°15'E

I commence at the cor. of Tps. 19 and 20 S. Rgs, 25 and 26 E, re-established July 22, 1911, by John F. Hesse, U.S. Transitman, & described in Book "A".

Thence I run

S.2°05'E. on a random line on E. bdy. of Tp. 20 S. Rg. 25 E., finding no trace of cors. and at 483.54 Chs. intersect 4th Standard Par., N., 30 lks. W. of stand. cor. of Tps. 20 S., Rgs. 25 and 26 E., hereafter re-established by me, & described in Book "G".

September 7, 1911.

September 13¹⁹¹¹ At 7h.00m. a.m. l.m.t., I set off 31°38½'N on the lat. arc; 4°10½'N on the decl. arc and determine a meridian with the solar at the cor. of Tp. 20 S. Rgs. 25 and 26 E., re-established by me Sept. 9, 1911, & described in Book "G".

Thence I run

N.2°07'W. on a true line on E. bdy. of Tp. 20 S. Rg. 25 E. marking and blazing true line and setting ¼ and sec. cors. at their proper proportional part of the whole dist.

Bet. bears. 31 and 36
Over level land.

10.90
20.35
40.29½

Cross road, bears E. and W.
Fence, bears E. and W.
Set an iron post 3 ft. long, 1 in. diam., 26 in. in the ground for ¼ sec. cor., marked on brass cap 1911 S36 in W. and S31 in E. half; dig pits 18 x 18 x 12 ins. N. and S. of cor. 3 ft. dist., and raise a mound of earth 3½ ft. base, 1½ ft. high, W. of cor.

26 Resurvey of East boundary of Township 20 South R.25 E.

Chains.

75.41 Fence, bears E. and W.
 80.59 Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for cor. of secs. 25, 30, 31 and 36, marked on brass cap, 1911;
 T 20 S on N. half;
 R 25 E, S 25 in NW.,
 R 26 E, S 30 in NE.,
 S 31 in SE., and
 S 36 in SW. quadrant; dig pits 18x18x12 ins., in each sec. 5 1/2 ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high, W. of cor.
 Land, level.
 Soil, white sandy loam, mixed with alkali, 3rd rate.
 No timber. No undergrowth.

N. 2° 07' W., bet. secs. 25 and 30.
 Over level land, through dense brush.

12.74 Fence bears NE. and SW.
 40.29 1/2 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for 1/4 sec. cor., marked on brass cap 1911 1/4 S 30 in E. half; dig pits 18x18x12 ins. N. and S. of cor. 3 ft. dist., and raise a mound of earth 3 1/2 ft. base, 1 1/2 ft. high, E. of cor.

73.95 Cross wash, 15 lks. wide, course E.

80.59 Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for cor. of secs. 19, 24, 25 and 30, marked on brass cap, 1911;

See Supplemental Plots E. Section between secs. 24 & 25, Subdivision of Tp. 20 S. - R. 25 E. hereto attached.

T 20 S in N. half,
 R 25 E, S 24 in NW.,
 S 30 in SE., and
 S 25 in SW. quadrant; dig pits 18x18x12 ins. in each sec. 5 1/2 ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high, W. of cor.

Land, level.
 Soil, sandy loam, over 2 ft. deep; dry, medium texture; 1st rate.
 No timber.
 Undergrowth, mesquite.

N. 2° 07' W. bet. secs. 19 and 24.
 Over level land, through dense brush.

5.36 Cross road, brs. NE. and SW.
 19.99 Cross same road, brs. NW. and SE.
 24.26 Cross wash, 7 lks. wide, course E.
 25.11 Cross same road, bears NE. and SW.
 40.29 1/2 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for 1/4 sec. cor., marked on brass cap 1911 1/4 S 19 in E. half; dig pits 18x18x12 ins. N. and S. of cor. 3 ft. dist., and raise a mound of earth 3 1/2 ft. base, 1 1/2 ft. high, E. of cor.

70.99 Cross wash, 20 lks. wide, course E.

79.39 Cross road, brs. E. and W.

80.59 Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for cor. of secs. 18, and 19, T. 20 S. R. 26 E., marked on brass cap, 1911;

T 20 S in N. half,
 S. 13, S. 24, R. 25 E. in W. half,
 S 18 in NE., and
 S 19, R. 26 E. in SE. quad.,
 S 24 in SW. quadrant; dig pits 18x18x12 ins. NE. & SE. of cor. 5 1/2 ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high, E. of cor.

Land, level.
 Soil, sandy loam, over 2 ft. deep; dry, medium texture; 1st rate.
 No timber. Undergrowth, mesquite.
 At this cor. I set off 4° 01 1/2' N. on the decl. arc; and observe the sun on the meridian at noon;

Resurvey of East Boundary of Tps. 20 S. Rgs. 25 E.

Chains.

the resulting lat. is 31°41'N.

N.2°07'W. bet. secs. 13 and 18.

Over level land, through dense brush.

40.29 1/2 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for 1/4 sec. cor., marked on brass cap 1911 1/4 S18 in E. half; dig pits 18 x 18 x 12 ins. N. and S. of cor. 3 ft. dist., and raise a mound of earth 3 1/2 ft. base, 1 1/2 ft. high, E. of cor.

80.59 Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for cor. of secs. 7, and 12, T.20S. R.26E., marked on brass cap, 1911; T20S in N., and S.; S12, S13 R25E, in W. half; S7 in NE., and S18, R26E in SE. quadrant; dig pits 18 x 18 x 12 ins. NE. & SE. of cor. 5 1/2 ft. dist., and raise a mound of earth 4 ft. base 2 ft. high, E. of cor. Land, level. Soil, sandy loam over 2 ft. deep; dry; medium texture; 1st rate. No timber. Undergrowth, mesquite,

N.2°07'W. bet. secs. 7 and 12.

Over level land, through dense brush.

11.56 Cross road, bears E. and W.

40.29 1/2 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for 1/4 sec. cor., marked on brass cap 1911 1/4 S7 in E. half; dig pits 18 x 18 x 12 ins. N. and S. of cor. 3 ft. dist., and raise a mound of earth 3 1/2 ft. base, 1 1/2 ft. high, E. of cor.

80.59 Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for cor. of secs. 6 & 7, T.20S. R.26E., marked on brass cap, 1911; T20S in N. and S.; S1, S12 R25E, in W. half; S6 in NE., and S7 R26E in SE. quadrant; dig pits 18 x 18 x 12 ins. NE. & SE. of cor. 5 1/2 ft. dist., and raise a mound of earth 4 ft. base 2 ft. high, E. of cor. Land, level. Soil, sandy loam over 2 ft. deep; dry; medium texture; 1st rate. No timber. Undergrowth, mesquite.

N.2°07'W. bet. secs. 1 and 6.

Over level land, through dense brush.

1.48 Cross road, bears E. and W.

20.91 Cross road, bears E. and W.

40.29 1/2 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for 1/4 sec. cor., marked on brass cap 1911 1/4 S6 in E. half; dig pits 18 x 18 x 12 ins. N. and S. of cor. 3 ft. dist., and raise a mound of earth 3 1/2 ft. base 1 1/2 ft. high, E. of cor.

80.59 The cor. of Tps. 19 and 20 S., Rgs. 25 and 26 E., re-established July 22, 1911, by John F. Hesse, U.S. Transitman, & described in Book "A". Land level. Soil, sandy loam over 2 ft. deep; dry; medium texture; 1st rate. No timber. Undergrowth, mesquite.

September 13, 1911.

Alfred N. Blinn

U.S. Transitman.

UNITED STATES TRANSITMAN
FINAL OATHS OF ~~DEPUTY SURVEYOR~~ AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by John P. Hesse and
Alfred N. Oliver, United States ~~Deputy Surveyor~~
Transitman, to assist in running, measuring, and
marking the lines and corners described in the foregoing field notes of the survey of the subdivision
lines of P 20 S R. 25 E. and resurvey of the E. ldy of P 20 S R. 25 E.
showing the respective capacities in which they acted:

- H. R. Harvey Chainman.
- R. L. Bates Chainman.
- J. L. Gardner Moundman.
- Moundman.
- E. Barnes Axman.
- Axman.
- A. W. Hendrix Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted John P. Hesse and Alfred N. Oliver
....., United States ~~Deputy Surveyor~~
Transitman
those parts or portions of the the subdivision lines of P 20 S R. 25 E. and
resurvey of the E. ldy of P 20 S R. 25 E.

..... of the Gila and
Salt River meridian, Territory of Arizona, which are represented
in the foregoing field notes as having been surveyed by him and under his direction; and that said survey
has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the
corner monuments established, according to the instructions furnished by the United States Surveyor
General for Arizona

- H. R. Harvey Chainman.
- R. L. Bates Chainman.
- J. L. Gardner Moundman.
- Moundman.
- E. Barnes Axman.
- Axman.
- A. W. Hendrix Flagman.

Subscribed and sworn to before me this 3rd
day of October, 1911



John P. Hesse
U. S. Transitman

TRANSITMAN
FINAL OATH OF UNITED STATES ~~DEPUTY SURVEYOR~~.

I, Alfred N. Oliver, United States ~~Deputy Surveyor~~ ^{Transitman}, do solemnly swear that, in pursuance of ~~a contract~~ ^{instructions} received from Frank S. Ingalls United States Surveyor General for Arizona, for Group 5, bearing date of the 28th day of July 1911 and 5th day of August, 1911, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for Arizona, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of the subdivision lines of P20 S R. 25 E. and resurvey of the E. bdy of P20 S R. 25 E.

of the Gila and Salt River meridian, in the Territory of Arizona, which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States 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 survey.

Alfred N. Oliver
United States ~~Deputy Surveyor~~ ^{Transitman}.

Subscribed by said Alfred N. Oliver, and sworn to before me }
this 2nd day of August, 1912

Frank S. Ingalls
SURVEYOR-GENERAL OF ARIZONA



APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Phoenix, Ariz., 1914

The foregoing field notes of the survey of the

Subdivision Lines of T. 20 S. R. 25 E. and Resurvey of East bdy of T. 20 S. R. 25 E. of the

Gila + Salt River Base and Meridian Arizona

executed by Alfred N. Oliver, U.S. Transitman under ~~his contract~~ ^{instructions} No. 5 dated July 28, 1911 and August 5, 1911, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

United States 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.

United States Surveyor General.

Supplemental Notes of Section Line between secs. 24 and 25.
Subdivision of Township 20 South, Range 25 East.

Chains

7.45
40.00

72.90
73.85

April 4, 1913: At 4h. 00m. p.m., l.m.t., I set off $31^{\circ} 39\frac{1}{2}'$ N., on the lat. arc; $5^{\circ} 46' N.$ on the decl. arc, at the cor. of secs. 23, 24, 25 and 26, which is a 2" iron post, marked and witnessed as described by the Surveyor General, set by Alfred N. Oliver, U.S. Transitman, Sept. 26, 1911. (See page 18, original notes hereto attached). Thence I run East, bet. secs. 24 and 25. Over level land, through scattering brush. Cross road, brs. NW. and SE. Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, 1913; $\frac{1}{4}$ S 24 in N., and S 25 in S. half; dig pits 18x18x12 ins. E. and W. of cor. 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, N. of cor. I dig up the post set by A. N. Oliver, U.S. Transitman, Sept. 29, 1911, and described on page 19, original notes hereto attached; fill the pits and destroy the mound of earth. Cross road, brs. N. and S. Intersect E. bdy. of Tp. 44 lks. $S. 2^{\circ} 07' E.$ of cor. of secs. 19, 24, 25 and 30, which is a 3" iron post, marked and witnessed, as described by the Surveyor General, set by Alfred N. Oliver, U.S. Transitman, Sept. 13, 1911. (See page 26, Resurvey of E. bdy. of T. 20 S., R. 25 E., hereto attached). At point of intersection, I set an iron post 3 ft. long, 2 ins. in diam., 24 ins. in the ground, for closing cor. of secs. 24 and 25, T 20 S R 25 E, marked on brass cap, 1913; C C, E. of center, T 20 S in N., and S 19 S 30 R 26 E in E. half; S 24 in NW., and S 25 R 25 E in SW. quadrant; dig pits 24x18x12 ins. crosswise on each line, N. and S. 3 ft., and W. of post, 7ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high, W. of cor. I obliterate marks on post at cor. of secs. 19, 24, 25 and 30, set by Alfred N. Oliver, and remark it for cor. of secs. 19 and 30, T. 20 S., R. 26 E., as follows: 1913; T 20 S in N., and S 24 S 25 R 25 E in W. half; S 19 in NE., and S 30 R 26 E in SE. quadrant; dig pits 24 x 24 x 12 ins. in each sec. 6 ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high, E. of cor. Land, level. Soil, rich sandy loam, over two feet deep, medium texture, dry; 1st rate. No timber. Undergrowth, mesquite.

April 4, 1913.

John P. Kesse
U. S. Surveyor.

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CERTIFICATE OF ASSISTANTS.

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
under Group 5
stated opposite our several signatures, in surveying all those parts or portions of the subdivision
lines of Tp. 20 S. Rg. 25 E.

of the Gila & 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-
tion; and that said survey 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>G. E. Lange</i>	<i>April 1, 1913</i>	<i>April 4, 1913</i>	<i>Chainman</i>
<i>B. S. Jackson</i>	<i>Feb. 9, 1913.</i>	<i>April 4, 1913</i>	<i>Azman</i>
<i>E. C. Kealey</i>	<i>March 18, 1913</i>	<i>April 4, 1913</i>	<i>Chainman</i>
<i>J. S. Hughes</i>	<i>Feb. 9, 1913.</i>	<i>April 4, 1913</i>	<i>Flagman</i>
<i>E. L. Hamlett</i>	<i>April 1, 1913.</i>	<i>April 4, 1913</i>	<i>Cornerman.</i>

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

John F. Hesse
U. S. Surveyor.

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BOOK 2706

FINAL OATH OF UNITED STATES SURVEYOR

I, John F. Hesse, U. S. Surveyor, do solemnly swear that, in pursuance of special instructions ^{for Group 5} received from the U. S. Surveyor General for Arizona bearing date of the 28th day of July, 1911, 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 Tp. 20 S. Rg. 25 E.

of the Gila & 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 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 survey.

John F. Hesse
U. S. Surveyor.

Subscribed by said John F. Hesse, and sworn to before me }
this 2nd day of June, 1913

George E. Shigh
U. S. Commissioner Dist. of Ariz.



APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Phoenix Arizona, Nov. 14, 1914

The foregoing ^{Supplemental} field notes of the survey of the Section Line between Sections 24 & 25 of T. 20 S. - R. 25 E. of the Gila & Salt River Base & Meridian, Arizona.

executed by John F. Hesse, U. S. Surveyor under his special instructions ^{for Group 5} dated July 28, 1911, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Frank S. Lygall
U. S. Surveyor General of Arizona.

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

U. S. Surveyor General of Arizona.

JUN 4 - 1913