

FIELD NOTES

OF THE SURVEY OF THE

Second Standard Parallel North

through
Rangs 7, 8, 9, 10, 11 ^{and} 12 West

2261

2261

Of the G. and S. P. Meridian,

In the ^{Terr.} State of Arizona

EXECUTED BY

Alfred S. Oliver

In the capacity of U. S. ^{Assistant} ~~Surveyor~~, under instructions dated August 21, 1910,

issued by the United States Surveyor General to govern surveys included in

Group No. 4, which were approved by the Commissioner of the General Land

Office, September 9, 1910, pursuant to authority contained in the Act of

Congress dated June 7, 1910 ^{and March 4}, 1911

Survey commenced February 24, 1911

Survey completed March 14, 1911

INDEX DIAGRAM.

Township -----, *Range* -----

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BOOK 2261

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R8W

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R12W

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INDEX DIAGRAM.

Township _____, Range _____

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Meanders Page _____

WE, R. A. Coombs, W. D. Tanner, R. E. Lyon and J. H. 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 2nd Standard Parallel N. through Rgs. 7, 8, 9, 10, 11 and 12 W.

R. A. Coombs, Chainman.
W. D. Tanner, Chainman.
R. E. Lyon, "
J. H. Bates, "
Alfred N. Olcott
U. S. Transitman

Subscribed and sworn to before me this 23rd
day of February, 1911



WE, L. P. Bates and R. L. Bates
do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of the 2nd Standard Parallel N. through Rgs. 7, 8, 9, 10, 11 and 12 W.

L. P. Bates, Moundman.
R. L. Bates, Moundman.

Subscribed and sworn to before me this 23rd
day of February, 1911



Alfred N. Olcott
U. S. Transitman

WE, C. S. Crowen and Ed. Brockway
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 us, to the best of our skill and ability, in the survey of the 2nd Standard Parallel N. through Rgs. 7, 8, 9, 10, 11 and 12 W.

C. S. Crowen, Axman.
Ed. Brockway, Axman.

Subscribed and sworn to before me this 23rd
day of February, 1911



Alfred N. Olcott
U. S. Transitman

I, P. Shimpfessel, 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 2nd Standard Parallel N. through Rgs. 7, 8, 9, 10, 11 and 12 W.

P. Shimpfessel, Flagman.

Subscribed and sworn to before me this 23rd
day of February, 1911



Alfred N. Olcott
U. S. Transitman

Second Standard Parallel North through Rg. 7 W.

chains.

Survey commenced February 24, 1911 and executed with a W. & 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 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 the standard cor. of Tps. 9 N. Rgs. 6 and 7 W. which is a stone marked and witnessed as described by the surveyor general, latitude $34^{\circ} 04' 21''$ N. longitude $112^{\circ} 56' 54''$ W. ; I set off $34^{\circ} 04\frac{1}{2}'$ N. on the lat. arc; $9^{\circ} 33'$ S. on the decl. arc; and, at 4h. 00m. p.m., l.m.t., determine with the solar a meridian and mark a point thereof, on a stone firmly set in the ground, 5 chs. N. of the cor.

At 9h. 08m p.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 the cor.

February 24, 1911

February 25: At 7:30 a.m., l.m.t, I lay off the azimuth of Polaris, $1^{\circ} 24'$ to the east, and mark the meridian thus determined, by cutting a small groove in the stone set February 24, on which the meridian coincides with the mark determined by the solar.

At 8h. 00m. a.m., l.m.t., I set off $34^{\circ} 04\frac{1}{2}'$ N. on the lat. arc; $9^{\circ} 18\frac{1}{2}'$ S. on the decl. arc; and mark a point in the meridian determined with the solar, by a cross on the stone already set 5 chs. N. of my station; this mark coincides with the meridian determined by the Polaris observation.

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

The magnetic bearing of the true meridian, at 8h. 15m. a.m., is N. $14^{\circ} 30'$ W.; the angle thus determined gives the mag. decl. $14^{\circ} 30'$ E.

From the standard cor. of Tps. 9 N. Rgs. 6 and 7 W. already described, I run

West on S. bdy. sec. 36

Over level land through dense brush.

22.00

Ascend steep granite ridge.

35.00

Ridge bears N. W. and S. E. and descend along S. slope of mountains.

Difference between measurement of 40.00 chs. by two sets of chainmen is 8 lks. position of middle point

By 1st. set 40.04 chs.

40.00

By 2nd. set 39.96 chs.; the mean of which is set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap $\frac{1}{4}$ S36 in N. half; and raise a mound of stone 3 ft. base $1\frac{1}{2}$ ft. high, N. of cor.

58.40

Cross wash 25 lks. wide course S.

68.60

Cross wash 20 lks. wide course S. E. and ascend steep granite mountains.

80.00

Difference between measurements of 80.00 chs. by two sets of chainmen is 12 lks. position of middle point

Second Standard Parallel North, through Rg. 7 W.

Chains.

By 1st. set 80.06 chs.
 By 2nd. set 79.94 chs.; the mean of which is
 80.00 Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in
 the ground for standard cor. of secs. 35 and 36, marked
 on brass cap
 T9NR7W in N. half;
 S35 in N. W. and S36 in N. E. quadrant; and raise a
 mound of stone 2 ft. base $1\frac{1}{2}$ ft. high, N. of cor. Pits
 impracticable.
 Land, level and mountainous.
 Soil, E. 22.00 chs. sandy loam; dry; medium texture;
 1st. rate.; W. 58.00 chs. rocky; worthless.
 No timber.
 Undergrowth, greasewood, mesquite and paloverde.

February 25, 1911.

February 26: At 8h. 00m. a.m., l.m.t., I set off $34^{\circ} 04\frac{1}{2}'$
 N. on the lat. arc; $8^{\circ} 56\frac{1}{2}'$ S. on the decl. arc; and
 determine a meridian with the solar at the cor. of secs.
 35 and 36

Thence I run

West on S. bdy. of sec. 35
 Ascend steep rocky E. slope.
 38.00 Top mountain ridge and descend steep S. W. slope.
 Difference between measurements of 40.00 chs. by two
 sets of chainmen is 6 lks.; position of middle point

By 1st. set 40.03 chs.

By 2nd. set 39.97 chs.; the mean of which is
 40.00 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in
 the ground for standard $\frac{1}{4}$ sec. cor., marked on brass cap
 S35 in N. half; and raise a mound of stone 2 ft. base
 $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.
 Difference between measurements of 80.00 chs. by two
 sets of chainmen is 14 lks. position of middle point

By 1st. set 80.07 chs.

By 2nd. set 79.93 chs.; the mean of which is
 80.00 Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in
 the ground for standard cor. of secs. 34 and 35, marked
 on brass cap
 T9NR7W in N. half;
 S34 in N. W. and S35 in N. E. quadrant; and raise a
 mound of stone 2 ft. base $1\frac{1}{2}$ ft. high, N. of cor. Pits
 impracticable.
 Land, mountainous.
 Soil, rocks; worthless.
 No timber.

Undergrowth, greasewood, paloverde and mesquite.

February 26: At this cor. I set off $8^{\circ} 53\frac{1}{2}'$ S. on the
 decl. arc; and observe the sun on the meridian at noon;
 the resulting lat. is $34^{\circ} 04\frac{1}{2}'$ N.

West on S. bdy. sec. 34.

Descend W. slope of mountains.
 1.70 Cross wash 15 lks. wide course S. W.
 9.30 Cross wash 10 lks. wide course S. W.
 27.80 Cross wash 10 lks. wide course S. W.
 36.80 Cross wash 10 lks. wide course S. W.
 Difference between measurements of 40.00 chs. by two
 sets of chainmen is 6 lks. position of middle point
 By 1st. set 40.03 chs.
 By 2nd. set 39.97 chs.; the mean of which is
 40.00 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in
 the ground for standard $\frac{1}{4}$ sec. cor., marked on brass cap
 S34 in N. half; and raise a mound of stone 2 ft. base
 $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.

Second Standard Parallel North, through Rg. 7 W.

Chains.
 53.05 Cross wash 10 lks. wide course S. W.
 68.35 Cross wash 30 lks. wide course S. W. and over level land.
 Difference between measurements of 80.00 chs. by two
 sets of chainmen is 10 lks. position of middle point
 By 1st. set 80.05 chs.
 By 2nd. set 79.95 chs.; the mean of which is
 80.00 Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in
 the ground for standard cor. of secs. 33 and 34, marked
 T9NR7W in N. half;
 S33 in N. W. and S34 in N. E. quadrant; dig pits 24 x 18
 x 12 ins. crosswise on each line, E. and W. 3 ft. and N.
 of post 7 ft. dist.; and raise a mound of earth 4 ft.
 base 3 ft. high, N. of cor.
 Land, mountainous and level.
 Soil, loose rocks; worthless.
 No timber.
 Undergr wth, greasewood and cactus.

February 26, 1911

February 28: At 8h. 00m. a.m., l.m.t., I set off $34^{\circ} 04\frac{1}{2}'$
 N. on the lat. arc; $8^{\circ} 11\frac{1}{2}'$ S. on the decl. arc; and
 determine a meridian with the solar at the standard cor.
 of secs. 33 and 34

Thence I run

West on S. bdy. of sec. 33
 Over level land through dense brush.
 5.50 Cross wash 15 lks. wide course S. W.
 Difference between measurements of 40.00 chs. by two
 sets of chainmen is 2 lks. position of middle point
 By 1st. set 40.01 chs.
 By 2nd. set 39.99 chs.; the mean of which is
 40.00 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in
 the ground for standard $\frac{1}{4}$ sec. cor., marked on brass cap
 $\frac{1}{4}$ S33 in N. half; dig pits 18 x 18 x 12 ins. E. and W.
 of post 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft.
 base $1\frac{1}{2}$ ft. high, N. of cor.
 64.70 Cross old road bears N. and S.
 Difference between measurements of 80.00 chs. by two
 sets of chainmen is 6 lks. position of middle point
 By 1st. set 80.03 chs.
 By 2nd. set 79.97 chs.; the mean of which is
 80.00 Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in
 the ground for standard cor. of secs. 32 and 33, marked
 on brass cap
 T9NR7W in N. half;
 S32 in N. W. and S33 in N. E. quadrant; dig pits 24 x 18
 x 12 ins. crosswise on each line, E. and W. 3 ft. and N.
 of post 7 ft. dist., and raise a mound of earth 4 ft.
 base 3 ft. high, N. of cor.
 Land, level.
 Soil, sand and gravel; 2nd. rate.
 No timber.
 Undergrowth, greasewood, paloverde and cactus.

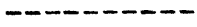
West on S. bdy. of sec. 32
 Over level land through dense brush.
 Difference between measurements of 40.00 chs. by two
 sets of chainmen is 6 lks. position of middle point
 By 1st. set 40.03 chs.
 By 2nd. set 39.97 chs.; the mean of which is
 40.00 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in
 the ground for standard $\frac{1}{4}$ sec. cor., marked on brass cap
 $\frac{1}{4}$ S32 in N. half; dig pits 18 x 18 x 12 ins. E. and W.
 of post 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft.
 base $1\frac{1}{2}$ ft. high N. of cor.

Second Standard Parallel North, through Rg. 7 W.

Chains.

Difference between measurements of 80.00 chs. by two sets of chainmen is 8 lks. position of middle point.
 By 1st. set 80.04 chs.
 By 2nd. set 79.96 chs.; the mean of which is

80.00 Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for standard cor. of secs. 31 and 32, marked on brass cap
 T9NR7W in N. half;
 S31 in N. W. and S32 in N. E. quadrant; dig pits 24 x 18 x 12 ins. crosswise on each line, E. and W. 3 ft. and N. of post 7 ft. dist., and raise a mound of earth 4 ft. base 2 ft. high, N. of cor.
 Land, level.
 Soil, sandy loam; medium texture; dry; 1st. rate.
 No timber.
 Undergrowth, greasewood, palo verde, mesquite and cactus.
 February 28: At this cor. I set off 8° 08½' S. on the decl. arc; and observe the sun on the meridian at noon; the resulting lat. is 34° 04½' N.



West on S. bdy. of sec. 31
 Over level land through dense brush

19.77 Cross wash 10 lks. wide course S. W.
 Difference between measurements of 40.00 chs. by two sets of chainmen is 4 lks. position of middle point
 By 1st. set 39.98 chs.
 By 2nd. set 40.02 chs.; the mean of which is

40.00 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for standard ¼ sec. cor., marked on brass cap
 S31 in N. half; dig pits 18 x 18 x 12 ins. E. and W. of post 3 ft. dist., and raise a mound of earth 3½ ft. base 1½ ft. high, N. of cor.
 Difference between measurements of 80.00 chs. by two sets of chainmen is 2 lks. position of middle point
 By 1st. set 79.99 chs.
 By 2nd. set 80.01 chs.; the mean of which is

80.00 Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for standard cor. of Tps. 9 N. Rgs. 7 and 8 W. marked on brass cap
 T9N in N. half;
 R8WS36 in N. W. and
 R7WS31 in N. E. quadrant; dig pits 30 x 24 x 12 ins. crosswise on each line E. and W. 4 ft. and N. of post 8 ft. dist.; and raise a mound of earth 5 ft. base, 2½ ft. high N. of cor.
 Land, level.
 Soil, Sandy loam; medium texture; dry; 1st. rate.
 No timber.
 Undergrowth, greasewood, mesquite and cactus.



General Description.

Through the E. half of range 7 this line runs over rough rocky mountains, while the west half runs over level land. Both north and south of the east half of the line the land is rough and mountainous, while the land north and south of the west half is level and the soil good. There is no timber.

Second Standard Parallel North, through Rg. 8 W.

Chains.

- 17.59 West on S. bdy. of sec. 36
Over level land through dense brush.
Cross road bears N. E. and S. W.
Difference between measurements of 40.00 chs. by two sets of chainmen is 4 lks. position of middle point
By 1st. set 40.02 chs.
By 2nd. set 39.98 chs.; the mean of which is
- 40.00 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for standard $\frac{1}{4}$ sec. cor., marked on brass cap S36 in N. half; dig pits 18 x 18 x 12 ins. E. and W. of post 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base $1\frac{1}{2}$ ft. high, N. of cor.
Difference between measurements of 80.00 chs. by two sets of chainmen is 10 lks. position of middle point
By 1st. set 80.05 chs.
By 2nd. set 79.95 chs.; the mean of which is
- 80.00 Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for standard cor. of secs. 35 and 36, marked on brass cap
T9NR8W in N. half;
S35 in N. W. and S36 in N. E. quadrant; dig pits 24 x 18 x 12 ins. crosswise on each line E. and W. 3 ft. and N. of post 7 ft. dist.; and raise a mound of earth 4 ft. base 2 ft. high, N. of cor.
Land, level.
Soil, sandy loam, medium texture; dry; 1st. rate.
No timber.
Undergrowth, greasewood, mesquite and cactus.

February 28, 1911.

March 1: At 8h. 00m. a.m., l.m.t., I set off $34^{\circ} 04\frac{1}{2}'$ N. on the lat. arc; $7^{\circ} 49'$ S. on the decl. arc; and determine a meridian with the solar at the standard cor. of secs. 35 and 36

thence I run

- West on S. bdy. of sec. 35.
Over level land through dense brush.
Difference between measurements of 40.00 chs. by two sets of chainmen is 2 lks. position of middle point
By 1st. set 39.99 chs.
By 2nd. set 40.01 chs.; the mean of which is
- 40.00 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for standard $\frac{1}{4}$ sec. cor., marked on brass cap S35 in N. half; dig pits 18 x 18 x 12 ins. e. and W. of post 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base $1\frac{1}{2}$ ft. high, N. of cor.
Difference between measurements of 80.00 chs. by two sets of chainmen is 6 lks. position of middle point
By 1st. set 39.97 chs.
By 2nd. set 40.03 chs.; the mean of which is
- 80.00 Set an iron post 3 ft. long, 3 ins. diam. 24 ins. in the ground for standard cor. of secs. 34 and 35, marked on brass cap
T9NR8W in N. half;
S34 in N. W. and S35 in N. E. quadrant; dig pits 24 x 18 x 12 ins. crosswise on each line, E. and W. 3 ft. and N. of post 7 ft. dist., and raise a mound of earth 4 ft. base 2 ft. high, N. of cor.
Land, level.
Soil, sandy loam; dry; medium texture; 1st. rate.
No timber.
Undergrowth, greasewood, mesquite and cactus.

West on S. bdy. of sec. 34
Over level land through dense brush.

Second Standard Parallel North, through Rg. 8 W.

Chains.

- Difference between measurements of 40.00 chs. by two sets of chainmen is 4 lks. position of middle point
By 1st. set 40.03 chs.
By 2nd. set 39.98 chs.; the mean of which is
- 40.00 Set an iron post 3 ft. long, 1 in. diam. 26 ins. in the ground for standard $\frac{1}{4}$ sec. cor., marked on brass cap $\frac{1}{4}$ S34 in N. half; and dig pits 18 x 18 x 12 ins. E. and W. of post 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base $1\frac{1}{2}$ ft. high, N. of cor.
- Difference between measurements of 80.00 chs. by two sets of chainmen is 6 lks. position of middle point
By 1st. set 80.03 chs.
By 2nd. set 79.97 chs.; the mean of which is
- 80.00 Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for standard cor. of secs. 33 and 34, marked on brass cap
T9NR8W in N. half;
S33 in N. W. and S34 in N. E. quadrant; dig pits 24 x 18 x 12 ins. crosswise on each line E. and W. of post 3 ft. and N. of post 7 ft. dist.; and raise a mound of earth 4 ft. base 2 ft. high, N. of cor.
Land, level.
Soil, sandy loam; medium texture; dry; 1st; rate;
No timber.
Undergrowth, greasewood, mesquite and cactus.
March 1; At this cor. I set off 7° 46' S. on the decl. arc; and observe the sun on the meridian at noon; the resulting lat. is 34° 04 $\frac{1}{2}$ ' N.

-
- West on S. bdy. of sec. 33
Over level land through dense brush.
Difference between measurements of 40.00 chs. by two sets of chainmen is 6 lks. position of middle point
By 1st. set 40.03 chs.
By 2nd. set 39.97 chs.; the mean of which is
- 40.00 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for standard $\frac{1}{4}$ sec. cor., marked on brass cap $\frac{1}{4}$ S33 in N. half; dig pits 18 x 18 x 12 ins. E. and W. of post 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base $1\frac{1}{2}$ ft. high, N. of cor.
- Difference between measurements of 80.00 chs. by two sets of chainmen is 8 lks. position of middle point
By 1st. set 80.04 chs.
By 2nd. set 79.96 chs.; the mean of which is
- 80.00 Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for standard cor. of secs. 32 and 33, marked on brass cap
T9NR8W in N. half;
S32 in N. W. and S33 in N. E. quadrant; dig pits 24 x 18 x 12 ins. crosswise on each line E. and W. 3 ft. and N. of post 7 ft. dist., and raise a mound of earth 4 ft. base 2 ft. high, N. of cor.
Land, level.
Soil, sandy loam; medium texture; dry; 1st. rate.
No timber.
Undergrowth, greasewood, mesquite and cactus.

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- West on S. bdy. of sec. 33
Over level land through dense brush.
Difference between measurements of 40.00 chs. by two sets of chainmen is 4 lks. position of middle point
By 1st. set 39.98 chs.
By 2nd. set 40.03 chs.; the mean of which is
- 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 $\frac{1}{4}$ S33 in N. half; dig pits 18 x 18 x 12 ins. E. and W.

Chains. ~~Second Standard Parallel North, through Rg. 8 W.~~
of post 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base $1\frac{1}{2}$ ft. high, N. of cor.
Difference between measurements of 80.00 chs. by two sets of chainmen is 6 lks., position of middle point
By 1st. set 79.97 chs.
By 2nd. set 80.03 chs.; the mean of which is
80.00 Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for standard cor. of secs. 31 and 32, marked on brass cap
T9NR8W in N. half;
S31 in N. W. and S32 in N. E. quadrant; dig pits 24 x 18 x 12 ins. crosswise on each line, E. and W. 3 ft. and N. of post 7 ft. dist., and raise a mound of earth 4 ft. base 2 ft. high, N. of cor.
Land, level.
Soil, sandy loam; medium texture; dry; 1st. rate.
No timber.
Undergrowth, greasewood, mesquite and cactus.
March 1, 1911.

March 2: At 8h. 00m. a.m., l.m.t., I set off $34^{\circ} 04\frac{1}{2}'$ N. on the lat. arc; $7^{\circ} 26'$ S. on the decl. arc; and determine a meridian with the solar at the standard cor. of secs. 31 and 32
Thence I run
West on S. bdy. of sec. 31
Over level land through dense brush.
Difference between measurements of 40.00 chs. by two sets of chainmen is 8 lks. position of middle point
By 1st. set 40.04 chs.
By 2nd. set 39.96 chs.; the mean of which is
40.00 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for standard $\frac{1}{4}$ sec. cor., marked on brass cap
T331 in N. half; dig pits 18 x 18 x 12 ins. E. and W. of post 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base $1\frac{1}{2}$ ft. high, N. of cor.
Difference between measurements of 80.00 chs. by two sets of chainmen is 10 lks. position of middle point
By 1st. set 80.05 chs.
By 2nd. set 79.95 chs.; the mean of which is
80.00 Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for standard cor. of Tps. 9 N. Rgs. 8 and 9 W. marked on brass cap
T9N in N. half;
R9WS36 in N. W. and
R8WS31 in N. E. quadrant; dig pits 30 x 24 x 12 ins. crosswise on each line E. and W. 4 ft. and N. of post 8 ft. dist.; and raise a mound of earth 5 ft. base $2\frac{1}{2}$ ft. high, N. of cor.
Land, level.
Soil, sandy loam; medium texture; dry; 1st. rate.
No timber.
Undergrowth, greasewood, mesquite and cactus.

General Description.

Through range 8 west this line runs over level land and the land is level both north and south of the line.
There is no timber or water.

Second Standard Parallel North, through Rg. 9 W.

Chains.	West on S. bdy. of sec. 36 Over level land through dense brush.
15.95	Cross wash 15 lks. wide course N. W. Difference between measurements of 40.00 chs. by two sets of chainmen is 2 lks. position of middle point By 1st. set 39.99 chs. By 2nd. set 40.01 chs.; the mean of which is
40.00	Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for standard $\frac{1}{4}$ sec. cor., marked on brass cap $\frac{1}{4}$ S36 in N. half; dig pits 18 x 18 x 12 ins. E. and W. of post 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base $1\frac{1}{2}$ ft. high, N. of cor. Difference between measurements of 80.00 chs. by two sets of chainmen is 6 lks. position of middle point By 1st. set 79.97 chs. By 2nd. set 80.03 chs.; the mean of which is
80.00	Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for standard cor. of secs. 35 and 36, marked on brass cap T9NR9W in N. half; S35 in N. W. and S36 in N. E. quadrant; dig pits 24 x 18 x 12 ins. crosswise on each line, E. and W. 3 ft. and N. of post 7 ft. dist., and raise a mound of earth 4 ft. base 2 ft. high, N. of cor. Land, level. Soil, sandy loam; dry; medium texture; 1st. rate. No timber. Undergrowth, greasewood, mesquite and cactus. Clouds prevented an observation for latitude.

	West on S. bdy. of sec. 35 Over level land through dense brush.
1.25	Cross wash 15 lks. wide course N. E. and over rolling land,
10.95	Cross road bears N. E. and S. W. Difference between measurements of 40.00 chs. by two sets of chainmen is 6 lks. position of middle point By 1st. set 40.03 chs. By 2nd. set 39.97 chs. the mean of which is
40.00	Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for standard $\frac{1}{4}$ sec. cor., marked on brass cap $\frac{1}{4}$ S35 in N. half; dig pits 18 x 18 x 12 ins. E. and W. of post 3 ft. dist., and raise a mound of earth 4 ft. base 2 ft. high, N. of cor.
59.57	Cross wash 10 lks. wide course N. E.
64.50	Cross wash 10 lks. wide course N. E.
67.50	Cross wash 10 lks. wide course N. E.
78.27	Cross wash 10 lks. wide course N. E. Difference between measurements of 80.00 chs. by two sets of chainmen is 10 lks. position of middle point By 1st. set 80.05 chs. By 2nd. set 79.95 chs., the mean of which is
80.00	Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for standard cor. of secs. 34 and 35, marked on brass cap T9NR9W in N. half; S34 in N. W. and S35 in N. E. quadrants; dig pits 24 x 18 x 12 ins. crosswise on each line, E. and W. 3 ft. and N. of post 7 ft. dist., and raise a mound of earth 4 ft. base 2 ft. high, N. of cor. Land, level and rolling. Soil, sandy loam; medium texture; dry; 1st. rate. No timber. Undergrowth, greasewood, mesquite and cactus.

March 2, 1911.

Second Standard Parallel North, through Rg. 9 W.

Chains.

March 3: At 8h. 00m. a.m., l.m.t., I set off $34^{\circ} 04\frac{1}{2}'$ N. on the lat. arc; $7^{\circ} 03'$ S. on the decl. arc; and determine a meridian with the solar at the standard cor. of secs. 34 and 35

Thence I run
West on S. bdy. of sec. 34
Overr rolling land, through dense brush.

17.95 Cross wash 20 lks. wide course N.
24.35 Cross wash 30 lks. wide course N.
Difference between measurements of 40.00 chs. by two sets of chainmen is 2 lks. position of middle point
By 1st. set 39.99 chs.
By 2nd. set 40.01 chs.; the mean of which is

40.00 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for standard $\frac{1}{4}$ sec. cor., marked on brass cap $\frac{1}{4}$ S34 in N. half; dig pits 18 x 18 x 12 ins. E. and W. of post 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base $1\frac{1}{2}$ ft. high, N. of cor.

41.00 Cross wash 15 lks. wide course N. and ascend
53.00 Ridge bears SE. and NW. descend.
61.75 Cross wash 25 lks. wide course N. E. ascend.
Difference between measurements of 80.00 chs. by two sets of chainmen is 8 lks. position of middle point
By 1st. set 79.96 chs.
By 2nd. set 80.04 chs.; the mean of which is

30.00 Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for standard cor. of secs. 33 and 34, marked on brass cap
T9NR9W in N. half;
S33 in N. W. and S34 in N. E. quadrant; dig pits 24 x 18 x 12 ins. crosswise on each line E. and W. 3 ft. and N. of post 4 ft. dist.; and raise a mound of earth 4 ft. b base 2 ft. high, N. of cor.
Land, rolling and mountainous.
Soil, E. 41.00 chs. sandy loam; dry; medium texture; 1st rate. W. 39.00 chs. rocky and worthless.
No timber.
Undergrowth, greasewood, mesquite and cactus.
Clouds prevented an observation for latitude.

March 3, 1911.

March 4: At 8h. 00m. a.m., l.m.t., I set off $34^{\circ} 04\frac{1}{2}'$ N. on the lat. arc; $6^{\circ} 40'$ S. on the decl. arc; and determine a meridian with the solar at the standard cor. of secs. 33 and 34

Thence I run
West on S. bdy. of sec. 33
Ascending mountainous land through dense brush.

31.00 Ridge bears N. and S.
37.30 Cross drain 5 lks. wide course S. W.
39.70 Cross drain 5 lks. wide course S. W.
34.40 Cross drain 7 lks. wide course S. W.
39.80 Cross wash 25 lks. wide course S. W.
Difference between measurements of 40.00 chs. by two sets of chainmen is 6 lks. position of middle point
By 1st. set 40.03 chs.
By 2nd. set 39.97 chs.; the mean of which is

40.00 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for standard $\frac{1}{4}$ sec. cor., marked on brass cap $\frac{1}{4}$ S33 in N. half; and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.

55.00 Ridge bears N. and S.
63.00 Cross drain 20 lks. wide course S. W.
65.00 Cross drain 30 lks. wide course S. W.
69.00 Cross wash 50 lks. wide course S. W. ascend.
75.00 Ridge bears N. W. and S. E.
79.00 Cross drain 7 lks. wide course S. E.

Second Standard Parallel North, through Rg. 9 W.

Chains.

Difference between measurements of 80.00 chs. by two sets of chainmen is 10 lks. position of middle point
 By 1st. set 80.05 chs.
 By 2nd. set 79.95 chs.; the mean of which is
 80.00 Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for standard cor. of secs. 32 and 33, marked on brass cap
 T9NR9W in N. half;
 S32 in N. W. and S33 in N. E. quadrant; and raise a mound of stone 3 ft. base $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.
 Land, mountainous.
 Soil, rocky; 4th. rate.
 No timber.
 Undergrowth, greasewood, paloverde and cactus.

 West on S. bdy. of sec. 32
 Ascend through dense brush.
 4.00 Ridge bears N. and S. descend.
 16.10 Cross wash 25 lks. wide course S. W. ascend.
 16.88 Old road bears N. and S.
 26.50 Ridge bears N. and S. descend.
 34.60 Cross wash 15 lks. wide course S. W.
 Difference between measurements of 40.00 chs. by two sets of chainmen is 4 lks.; position of middle point
 By 1st. set 40.02 chs.
 By 2nd. set 39.98 chs.; the mean of which is
 40.00 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for standard $\frac{1}{4}$ sec. cor., marked on brass cap
 S32 in N. half; and raise a mound of stone 3 ft. base $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.
 45.50 Ridge bears N. and S. descend.
 61.52 Cross wash 30 lks. wide course S. and over rolling land.
 71.80 Cross waab 15 lks. wide course S.
 Difference between measurements of 80.00 chs. by two sets of chainmen is 8 lks. position of middle point
 By 1st. set 80.04 chs.
 By 2nd. set 79.96 chs.; the mena of which is
 80.00 Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for standard cor. of secs 31 and 32, marked on brass cap
 T9NR9W in N. half;
 S31 in N. W. and S32 in N. E. quadrant; and raise a mound of stone 3 ft. base $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.
 Land, rolling and mountainous.
 Soil, rocky; 4th. rate.
 No timber.
 Undergrowth, greasewood, paloverde and cactus.
 Clouds prevented an observation for latitude.

 March 5: At 8h. 00m. a.m., l.m.t., I set off $34^{\circ} 04\frac{1}{2}'$ N. on the lat. arc; $6^{\circ} 17'$ S. on the decl. arc; and determine a meridian with the solar at the standard cor. of secs. 31 and 32
 Thence I run
 West on S. bdy. of sec. 31
 Over rolling land through dense brush.
 14.30 Cross wash 30 lks. wide course S.
 28.00 Cross wash 15 lks. wide course S.
 37.30 Cross wash 20 lks. wide course S.
 Difference between measurements of 40.00 chs. by two sets of chainmen is 6 lks. position of middle point
 By 1st. set 40.03 chs.
 By 2nd. set 39.97 chs.; the mean of which is
 40.00 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in

Second Standard Parallel North, through Rg. 9 W.

Chains.

45.10

61.07

80.00

the ground for standard $\frac{1}{4}$ sec. cor., marked on brass cap
 $\frac{1}{4}$ S31 in N. half; dig pits 18 x 18 x 12 ins. E. and W.
 of post 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft.
 base $1\frac{1}{2}$ ft. high, N. of cor.

Cross wash 10 lks. wide course S. E. and over level land.

Cross road bears N. and S.

Difference between measurements of 80.00 chs. by two
 sets of chainmen is 8 lks. position of middle point

By 1st. set 80.04 chs.

By 2nd. set 79.96 chs.; the mean of which is

Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in
 the ground for standard cor. of Tps. 9 N. Rgs. 9 and 10
 W. marked on brass cap

T9N in N. half;

R10WS36 in N. W. and

R9WS31 in N. E. quadrant; dig pits 30 x 24 x 12 ins.

crosswise on each line E. and W. 4 ft. and N. of post 8
 ft. dist.; and raise a mound of earth 5 ft. base $2\frac{1}{2}$ ft.
 high, N. of cor.

Land, level and rolling.

Soil, sandy loam; dry; medium texture; 1st. rate.

No timber.

Undegrowth, greasewood, mesquite and cactus.

March 5, 1911.

 General Description.

This line runs over rocky mountainous land, and the land
 on either side of the line is mountainous.

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Second Standard Parallel North, through Rg. 10 W.

Chains.

- March 6: At 8h. 00m. a.m., l.m.t., I set off $34^{\circ} 04\frac{1}{2}'$ N. on the lat. arc; $5^{\circ} 54'$ S. on the decl. arc; and determine a meridian with the solar at the standard cor. of Tps. 9 N. Rgs. 9 and 10 W.
- Thence I run
- West on S. bdy. of sec. 36.
 - Over level land, through dense brush.
 - 22.80 Cross wash 15 lks. wide course S. E. and over rolling land.
 - Difference between measurements of 40.00 chs., by two sets of chainmen is 2 lks. position of middle point
 - By 1st. set 39.99 chs.
 - By 2nd. set 40.01 chs.; the mean of which is
 - 40.00 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for standard $\frac{1}{4}$ sec. cor., marked on brass cap $\frac{1}{4}$ S36 in N. half; dig pits 18 x 18 x 12 ins. E. and W. of post 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base $1\frac{1}{2}$ ft. high, N. of cor.
 - 42.17 Cross wash 15 lks. wide course S. E.
 - 56.64 Cross wash 20 lks. wide course S. E.
 - 68.00 Cross wash 20 lks. wide course S. E.
 - 73.00 Ridge bears N. and S.
 - 75.00 Cross wash 15 lks. wide course S. E. ascend.
 - 79.30 Ridge bears N. and S. descend.
 - Difference between measurements of 80.00 chs. by two sets of chainmen is 12 lks. position of middle point
 - By 1st. set 80.06 chs.
 - By 2nd. set 79.94 chs.; the mean of which is
 - 80.00 Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for standard cor. of secs. 35 and 36, marked on brass cap
 - T9NR10W in N. half;
 - S35 in N. W. and S36 in N. E. quadrants; and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.
 - Land, level and rolling.
 - Soil, E. 22.80 chs. sandy loam; dry; medium texture; 1st rate; W. 57.20 chs. rocky; 4th. rate.
 - No timber.
 - Undergrowth, greasewood, mesquite, paloverde and cactus.
 - March 6: At this cor. I set off $5^{\circ} 51'$ S. on the decl. arc; and observe the sun on the meridian at noon; the resulting lat. is $34^{\circ} 04\frac{1}{2}'$ N.
-
- West on S. bdy. of sec. 35.
 - Descending over mountainous land through dense brush.
 - 2.65 Cross wash 15 lks. wide course S. E.
 - 9.00 Ridge bears N. W. and S. E.
 - 12.75 Cross wash 20 lks. wide course S. E. ascend.
 - Difference between measurements of 40.00 chs. by two sets of chainmen is 4 lks. position of middle point
 - By 1st. set 40.02 chs.
 - By 2nd. set 39.98 chs.; the mean of which is
 - 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 $\frac{1}{4}$ S35 in N. half; and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.
 - 42.50 Ridge bears N. and S.
 - 45.25 Ravine 50 ft. deep, 25 lks. wide course S. E.
 - 57.25 Cross wash 15 lks. wide course S. E.
 - 64.10 Cross pipe line bears N. E. and S. W.
 - 70.00 Cross wash 15 lks. wide course S. E. ascend.
 - Difference between measurements of 80.00 chs. by two sets of chainmen is 10 lks. position of middle point
 - By 1st. set 80.05 chs.
 - By 2nd. set 79.95 chs.; the mean of which is
 - 80.00 Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for standard cor. of secs. 34 and 35, marked

Second Standard Parallel North, through Rg. 10 W.

Chains.

on brass cap
 T9NR10W in N. half;
 S34 in N. W. and S 35 in N. E. quadrants; and raise a mound of stone 2 ft. base 1½ ft. high, N. of cor. Pits impracticable.
 Land, mountainous.
 Soil, rocky; 4th. rate.
 No timber.
 Undergrowth, greasewood, paloverde and cactus.

March 6, 1911.

March 7: At 8h. 00m. a.m., l.m.t., I set off 34° 04½' N. on the lat. arc: 5° 31' S. on the decl. arc; and determine a meridian with the solar at the standard cor. of secs. 34 and 35

Thence I run

- 5.50 West on S. bdy. of sec. 34
Ascend through dense brush.
Ridge bears N. and S. descend. Bullards house bears S. 27° 45' E.
- 13.00 Cross wash 20 lks. wide course S. E.
- 19.00 Cross wash 15 lks. wide course S. E.
- 36.00 Ridge bears N. and S. Bullards house bears S. 46° 45' E
Difference between measurements of 40.00 chs. by two sets of chainmen is 6 lks. position of middle point
By 1st. set 40.03 chs.
By 2nd. set 39.97 chs.; the mean of which is
- 40.00 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for standard cor., marked on brass cap S34 in N. half; and raise a mound of stone 2 ft. base 1½ ft. high, N. of cor. Pits impracticable.
- 51.00 Cross wash 10 lks. wide course S.
- 61.00 Cross wash 10 lks. wide course S.
- 66.00 Ridge bears N. and S.
- 75.50 Cross wash 25 lks. wide course S. ascend.
Difference between measurements of 80.00 chs. by two sets of chainmen is 8 lks. position of middle point
By 1st. set 80.04 chs.
By 2nd. set 79.96 chs.; the mean of which is
- 80.00 Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for standard cor. of secs. 33 and 34, marked on brass cap
T9NR10W in N. half;
S33 in N. W. and S34 in N. E. quadrants; and raise a mound of stone 2 ft. base 1½ ft. high, N. of cor. Pits impracticable.
Land, mountainous.
Soil, rocky; 4th. rate.
No timber.
Undergrowth, greasewood, paloverde and cactus.
March 7; At this cor. I set off 5° 28' S. on the decl. arc; and observe the sun on the meridian at noon; the resulting lat. is 34° 04½' N.

- 32.00 West on S. bdy. of sec. 33
Ascend steep rocky slope through dense brush.
Ridge bears N. and S. descend.
- 35.50 Cross wash 15 lks. wide course S. W.
Difference between measurements of 40.00 chs. by two sets of chainmen is 4 lks. position of middle point
By 1st. set 40.02 chs.
By 2nd. set 39.98 chs.; the mean of which is
- 40.00 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for standard cor., marked on brass cap S33 in N. half; and raise a mound of stone 2 ft.

Second Standard Parallel North, through Rg. 10 W.

Chains. base $1\frac{1}{2}$ ft. high N. of cor. Pits impracticable.
 40.30 Cross wash 10 lks. wide course S. E. ascend.
 53.50 Ridge bears N. and S. descend.
 74.50 Cross wash 15 lks. wide course S. ascend.
 Difference between measurements of 80.00 chs. by two
 sets of chainmen is 10 lks. position of middle point
 By 1st. set 80.05 chs.
 By 2nd. set 79.95 chs.; the mean of which is
 80.00 Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in
 the ground for standard cor. of secs. 32 and 33, marked
 on brass cap
 T9NR10W in N. half;
 S32 in N. W. and S33 in N. E. quadrants; and raise a
 mound of stone 2 ft. base $1\frac{1}{2}$ ft. high, N. of cor. Pits
 impracticable.
 Land, mountainous.
 Soil, rocky; 4th. rate.
 No timber.
 Undergrowth, greasewood, paloverde and cactus.

March 7, 1911.

March 8: At 8h. 00m. a.m., l.m.t., I set off $34^{\circ} 04\frac{1}{2}'$ N.
 on the lat. arc; $5^{\circ} 07\frac{1}{2}'$ S. on the decl. arc; and
 determine a meridian with the solar at the standard cor.
 of secs. 32 and 33

Thence I run

West on S. bdy. of sec. 32

Ascend steep rocky S. E. slope of mountains through
 dense brush.

3.00 Cross drain 15 lks. wide course N. E.

16.00 Cross same drain bourse S. E.

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

Difference between measurements of 40.00 chs. by two
 sets of chainmen is 8 lks. position of middle point

By 1st. set 40.04 chs.

By 2nd. set 39.96 chs.; the mean of which is

40.00 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in
 the ground for standard cor. of sec. cor., marked on brass cap
 S32 in N. half; and raise a mound of stone 2 ft. base
 $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.

53.00 Ravine 20 lks. wide course S. 50 ft. deep.

66.00 Ridge bears N. and S. descend along S. slope of mountains

Difference between measurements of 80.00 chs. by two
 sets of chainmen is 12 lks. position of middle point

By 1st. set 80.06 chs.

By 2nd. set 79.94 chs.; the mean of which is

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

T9NR10W in N. half;

S31 in N. W. and S32 in N. E. quadrant; and raise a
 mound of stone 2 ft. base $1\frac{1}{2}$ ft. high, N. of cor. Pits
 impracticable.

Land, mountainous.

Soil, rocky; 4th. rate.

No timber.

Undergrowth, greasewood, paloverde and cactus.

March 8: At this cor. I set off $5^{\circ} 04\frac{1}{2}'$ N. on the decl.
 arc; and observe the sun on the meridian at noon; the
 resulting lat. is $34^{\circ} 04\frac{1}{2}'$ N.

West on S. bdy. of sec. 31

Descending through dense brush.

3.20 Cross drain 7 lks. wide course S. ascend.

35.00 Cross drain 7 lks. wide course S. E.

Second Standard Parallel North, through Rg. 10 W.

Chains.

Difference between measurements of 40.00 chs. by two sets of chainmen is 6 lks. position of middle point
 By 1st. set 40.05 chs.
 By 2nd. set 39.97 chs.; the mean of which is

40.00 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for standard $\frac{1}{4}$ sec. cor., marked on brass cap $\frac{1}{4}$ S31 in N. half; and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.

51.00 Top of main ridge of Harcuvar Mountains and descend.

62.00 Cross drain 7 lks. wide course N. and ascend.
 Difference between measurements of 80.00 chs. by two sets of chainmen is 10 lks. position of middle point
 By 1st. set 80.05 chs.
 By 2nd. set 79.95 chs.; the mean of which is

80.00 Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for cor. of Tps. 9 N. Rgs. 10 and 11 W. marked on brass cap **St.**
 T9N in N. half;
 R11WS36 in N. W. and
 R10WS31 in N. E. quadrant; and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.
 Land, mountainous.
 Soil, rocky; 4th. rate.
 No timber.
 Undergrowth, greasewood, paloverde and cactus.

March 8, 1911.

General Description

This line runs over top of Harcuvar mountains and the land both north and south of the line is rough and mountainous. There is no water or timber.

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Second Standard Parallel North, through Rg. 11 W.

Chains.

March 11: At 8h. 00m. a.m., l.m.t., I set off $34^{\circ} 04\frac{1}{2}'$ N on the lat. arc; $3^{\circ} 57'$ S. on the decl. arc; and determine a meridian with the solar at the standard cor. of Tps. 9 N. Egs. 10 and 11 W.

Thence I run

West on S. bdy. of sec. 36

Ascend N. E. slope of spur.

18.50 Spur of mountains and descend.

20.50 Cross drain 5 lks. wide course N. ascend.

24.00 Spur of mountains bears N. and S. descend.

32.25 Cross drain 5 lks. wide course N.

37.00 Spur bears N. and S. descend.

Difference between measurements of 40.00 chs. by two sets of chainmen is 8 lks. position of middle point

By 1st. set 40.04 chs.

By 2nd. set 39.96 chs.; the mean of which is

40.00 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for standard $\frac{1}{4}$ sec. cor. marked on brass cap $\frac{1}{4}$ S36 in N. half; and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.

45.75 Cross drain 5 lks. wide course N. ascend.

57.00 Spur bears N. and S.

60.75 Cross drain 7 lks. wide course N. ascend.

67.35 Spur bears N. W. and S. E. descend.

Difference between measurements of 80.00 chs. by two sets of chainmen is 14 lks. position of middle point

By 1st. set 80.07 chs.

By 2nd. set 79.93 chs.; the mean of which is

80.00 Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for standard cor. of secs. 35 and 36, marked on brass cap T9NR11W in N. half; S35 in N. W. and S36 in N. E. quadrant; and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.

Land, mountainous.

Soil, rocky; 4th. rate.

No timber.

Undergrowth, oakbrush.

March 11: At this cor. I set off $3^{\circ} 54'$ S. on the decl. arc; and observe the sun on the meridian at noon; the resulting lat. is $34^{\circ} 04\frac{1}{2}'$ N.

West on S. bdy. of sec. 35.

Descending through dense brush.

29.10 Ridge bears N. and S. descend.

Difference between measurements of 40.00 chs. by two sets of chainmen is 4 lks. position of middle point

by 1st. set 40.02 chs.

By 2nd. set 39.98 chs.; the mean of which is

40.00 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for standard $\frac{1}{4}$ sec. cor., marked on brass cap $\frac{1}{4}$ S35 in N. half; and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.

72.50 Cross wash 15 lks. wide course N.W.

75.00 Ridge bears N. W. and S. E.

Difference between measurements of 80.00 chs. by two sets of chainmen is 12 lks. position of middle point

By 1st. set 40.06 chs.

By 2nd. set 79.94 chs.; the mean of which is

80.00 Point for standard cor. of secs. 35 and 36 falls in wash 15 lks. wide course S. W.

Land, mountainous.

Soil, rocky; 4th. rate.

No timber.

Undergrowth, oakbrush.

March 11, 1911.

Second Standard Parallel North, through Rg. 11 W.

Chains.	
	March 12: At 8h. 00m. a.m., l.m.y., I set off $34^{\circ} 04\frac{1}{2}'$ N on the lat. arc; $3^{\circ} 34'$ S. on the decl. arc; and determine a meridian with the solar at the standard cor. of secs. 34 and 35 true point for
	Thence I run
	West on S. bdy. of sec. 34
	Ascending S. W. slope through dense brush.
1.00	Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for witness cor. to standard cor. of secs. 34. and 35, marked on brass cap
	WC S. of center;
	T9NR11WS34S35 in N. half; and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.
7.00	Spur of ridge bears N. and S.
19.00	Cross drain 6 lks. wide course S.
36.50	Ridge bears N. and S. descend.
	Difference between measurements of 40.00 chs. by two sets of chainmen is 6 lks. position of middle point
	By 1st. set 40.03 chs.
	By 2nd. set 39.97 chs.; the mean of which is
40.00	Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for standard $\frac{1}{4}$ sec. cor., marked on brass cap $\frac{1}{4}$ S34 in N. half; and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.
43.50	Cross drain 5 lks. wide course S. ascend.
51.00	Ridge bears N. and S. descend.
63.50	Cross wash 10 lks. wide course N. W. ascend.
70.00	Ridge bears N. W. and S. E. descend.
	Difference between measurements of 80.00 chs. by two sets of chainmen is 10 lks. position of middle point
	By 1st. set 80.05 chs.
	By 2nd. set 79.95 chs.; the mean of which is
80.00	Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for standard cor. of secs. 33 and 34, marked on brass cap
	T9NR11W in N. half;
	S33 in N. W. and S34 in N. E. quadrants; and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.
	Land, mountainous.
	Soil, rocky; 4th. rate.
	No timber.
	Undergrowth, oakbrush and paloverde.
	March 12; At this cor. I set off $3^{\circ} 30\frac{1}{2}'$ S. on the decl. arc; and observe the sun on the meridian at noon; the resulting lat. is $34^{\circ} 04\frac{1}{2}'$ N.

	West on S. bdy. of sec. 33
	Descend S. W. slope through dense brush.
16.00	Cross wash 15 lks. wide course S. W.
20.75	Ridge bears N. W. and S. E.
23.00	Cross drain 5 lks. wide course N. W.
24.50	Ridge bears N. W. and S. E. descend.
	Difference between measurements of 40.00 chs. by two sets of chainmen is 2 lks. position of middle point
	By 1st. set 40.01 chs.
	By 2nd. set 39.99 chs.; the mean of which is
40.00	Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for standard $\frac{1}{4}$ sec. cor., marked on brass cap $\frac{1}{4}$ S33 in N. half; and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.
50.00	Cross wash 15 lks. wide course N. W.
67.00	Ridge bears N. W. and S. E.
	Difference between measurements of 80.00 chs. by two sets of chainmen is 8 lks. position of middle point
	By 1st. set 80.04 chs.
	By 2nd. set 79.96 chs.; the mean of which is
80.00	Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in

Second Standard Parallel North, through Rg. 11 W.

Chains.

the ground for standard cor. of secs. 32 and 33, marked on brass cap
 T9NR11W in N. half;
 S32 in N. W. and S33 in N. E. quadrants; and raise a mound of stone 2 ft. base 1½ ft. high, N. of cor. Pits impracticable.
 Land, mountainous.
 Soil, rocky; 4th. rate.
 No timber.
 Undergrowth, oakbrush and paloverde.

March 12, 1911.

March 13; At 8h. 00m. a.m., 1.m.t., I set off 34° 04' N. on the lat. arc; 3° 10' S. on the decl. arc; and determine a meridian with the solar at the standard cor. of secs. 32 and 33

Thence I run

West on S. bdy. of sec. 32.

Descend S.W. slope through dense brush.

- 0.50 Cross wash 20 lks. wide course N. ascend.
- 14.00 Ridge bears N. and S. descend.
- 29.75 Cross wash 20 lks. wide course N. W. ascend.
- 33.50 Ridge bears N. W. and S. E. descend.

Difference between measurements of 40.00 chs. by two sets of chainmen is 6 lks. position of middle point

By 1st. set 40.05 chs.

By 2nd. set 39.97 chs.; the mean of which is

- 40.00 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for standard cor., marked on brass cap S32 in N. half; and raise a mound of stone 2 ft. base 1½ ft. high, N. of cor. Pits impracticable.

- 53.00 Cross wash 15 lks. wide course N. W.
- 69.00 Ridge bears N. W. and S. E. descend.
- 79.50 Cross wash 10 lks. wide course N. ascend.

Difference between measurements of 80.00 chs. by two sets of chainmen is 16 lks. position of middle point

By 1st. set 80.08 chs.

By 2nd. set 79.92 chs.; the mean of which is

- 80.00 Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for standard cor. of secs. 31 and 32, marked on brass cap

T9NR11W in N. half;

S31 in N. W. and S32 in N. E. quadrant; and raise a mound of stone 2 ft. base 1½ ft. high, N. of cor. Pits impracticable.

Land, mountainous.

Soil, rocky; 4th. rate.

No timber.

Undergrowth, greasewood, paloverde and cactus.

West on S. bdy. of sec. 31

Ascend through dense brush.

- 13.00 Ridge bears N. and S. descend.

- 32.50 Cross wash 30 lks. wide course N. W. and over rough rolling land.

Difference between measurements of 40.00 chs. by two sets of chainmen is 4 lks. position of middle point

By 1st. set 40.02 chs.

By 2nd. set 39.98 chs.; the mean of which is

- 40.00 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for standard cor., marked on brass cap S31 in N. half; and raise a mound of stone 2 ft. base 1½ ft. high, N. of cor. Pits impracticable.

- 50.00 Cross wash 10 lks. wide course N. W.

- 66.70 Cross wash 10 lks. wide course N. W.

Second Standard Parallel North, through Rg. 11 W.

Chains.
075.00

Cross wash 10 lks. wide course N. W.
Difference between measurements of 80.00 chs. by two
sets of chainmen is 8 lks. position of middle point
By 1st. set 40.04 chs.

80.00

By 2nd. set 79.96 chs.; the mean of which is
Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in
the ground for standard cor. of Tps. 9 N. Rgs. 11 and 12
W. marked on brass cap

T9N in N. half;
R12WS36 in N. W. and
R11WS31 in N. E. quadrants; and raise a mound of stone
3 ft. base $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.
Land, mountainous and rolling.

Soil, rocky; 4th. rate.

No timber.

Undergrowth, greasewood and paloverde.

March 13: At this cor. I set off $3^{\circ} 07'$ S. on the decl.
arc; and observe the sun on the meridian at noon; the
resulting lat. is $34^{\circ} 04\frac{1}{2}'$ N.

General Description.

This line runs over rough mountainous land and the land
both north and South of the line is mountainous. There
is no water or timber.

Second Standard Parallel North, through Rg. 12 W.

Chains.

West on S. bdy. of sec. 36.
 Over rolling land through dense brush

12.85 Cross wash 15 lks. wide course N. W.
 32.00 Cross wash 10 lks. wide course N. W.
 38.10 Cross wash 20 lks. wide course N. W.

Difference between measurements of 40.00 chs. by two sets of chainmen is 8 lks. position of middle point
 By 1st. set 40.04 chs.,
 By 2nd. set 39.96 chs.; the mean of which is

40.00 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for standard $\frac{1}{4}$ sec. cor., marked on brass cap $\frac{1}{2}$ S36 in N. half; and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.

41.00 Ridge bears N. W. and S. E.
 49.90 Cross wash 20 lks. wide course N. W.
 58.00 Ridge bears N. W. and S. E.
 69.00 Wash 25 lks. wide course N. W.
 77.50 Ridge bears N. and S.

Difference between measurements of 80.00 chs. by two sets of chainmen is 14 lks. position of middle point
 By 1st. set 80.07 chs.
 By 2nd. set 79.95 chs.; the mean of which is

80.00 Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for standard cor. of secs. 35 and 36, marked on brass cap
 T9NR12W in N. half;
 S35 in N. W. and S36 in N. E. quadrant; and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.
 Land, rolling.
 Soil, rocky and gravelly; 4th. rate.
 No timber.
 Undergrowth, greasewood, paloverde and cac tus.
 March 13, 1911.

March 14: At 8h. 00m. a.m., l.m.t., I set off $34^{\circ} 04\frac{1}{2}'$ N on the lat. arc; $2^{\circ} 46\frac{1}{2}'$ S. on the decl. arc; and determine a meridian with the solar at the standard cor. of secs. 35 and 36

Thence I run
 West on S. bdy. of sec. 35
 Over rolling land, through dense brush.

14.90 Cross wash 10 lks. wide course N. W.
 24.90 Cross wash 10 lks. wide course N. W.
 36.25 Cross wash 10 lks. wide course N. W.

Difference between measurements of 40.00 chs. by two sets of chainmen is 4 lks. position of middle point
 By 1st. set 40.02 chs.
 By 2nd. set 39.98 chs.; the mean of which is

40.00 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for standard $\frac{1}{4}$ sec. cor., marked on brass cap $\frac{1}{2}$ S35 in N. half; and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.

42.35 Cross wash 15 lks. wide course N. W.
 51.30 Cross wash 15 lks. wide course N. W.
 51.75 Cross wash 15 lks. wide course N. W.
 59.00 Ridge bears N. and S.
 61.25 Cross wash 20 lks. wide course N. W.
 72.00 Cross wash 50 lks. wide course N.
 78.50 Cross wash 20 lks. wide course N.

Difference between measurements of 80.00 chs. by two sets of chainmen is 6 lks. position of middle point
 By 1st. set 80.03 chs.
 By 2nd. set 79.97 chs.; the mean of which is

80.00 Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for standard cor. of secs. 34 and 35, marked on brass cap
 T9NR12W in N. half;
 S34 in N. W. and S35 in N. E. quadrant; and raise a

Second Standard Parallel North, through Rg. 13 W.

Chains.

mound of stone 2 ft. base $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.
 Land, rolling.
 Soil, rocky and gravel; 4th. rate.
 No timber.
 Undergrowth, greewood and paloverde and cactus.

West on S. bdy. of sec. 34.
 Over rolling land, through dense brush.

3.20 Ridge bears N. W. and S. E.
 8.70 Cross wash 15 lks. wide course N. W.
 16.40 Cross wash 15 lks. wide course N. W.
 21.00 Cross wash 15 lks. wide course N. W.
 32.50 Cross wash 10 lks. wide course N. W.
 Difference between measurements of 40.00 chs. by two sets of chainmen is 8 lks. position of middle point
 By 1st. set 40.04 chs.
 By 2nd. set 39.96 chs.; the mean of which is

40.00 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for standard $\frac{1}{4}$ sec. cor., marked on brass cap $\frac{1}{4}$ S34 in N. half; and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.

45.85 Cross road bears N. E. and S. W.
 46.75 Cross wash 40. lks. wide course N.
 52.00 Cross wash 10 lks. wide course N.
 64.00 Cross wash 15 lks. wide course N. W.
 71.00 Cross wash 15 lks. wide course N. W.
 79.65 Cross wash 20 lks. wide course N. W.
 Difference between measurements of 80.00 chs. by two sets of chainmen is 10 lks. position of middle point
 By 1st. set 80.05 chs.
 By 2nd. set 79.95 chs.; the mean of which is

80.00 Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for standard cor. of secs. 33 and 34, marked on brass cap
 T9NR12W in N. half;
 S33 in N. W. and S34 in N. E. quadrants; and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.
 Land, rolling.
 Soil, rocky and gravel; 4th. rate.
 No timber.
 Undergrowth, greasewood, paloverde and cactus.

West on S. bdy. of sec. 33
 Over rolling land through dense brush.

16.00 Cross wash 15 lks. wide course N. W.
 23.20 Cross wash 10 lks. wide course N. W.
 Difference between measurements of 40.00 chs. by two sets of chainmen is 2 lks. position of middle point
 By 1st. set 40.01 chs.
 By 2nd. set 39.99 chs.; the mean of which is

40.00 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for standard $\frac{1}{4}$ sec. cor., marked on brass cap $\frac{1}{4}$ S33 in N. half; and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.

41.50 Cross wash 25 lks. wide course N. W.
 53.50 Cross wash 10 lks. wide course N. W.
 61.15 Cross wash 10 lks. wide course N. W.
 68.50 Cross wash 10 lks. wide course N. W.
 75.25 Cross wash 10 lks. wide course N. W.
 Difference between measurements of 80.00 chs. by two sets of chainmen is 6 lks. position of middle point
 By 1st. set 80.03 chs.
 By 2nd. set 79.97 chs.; the mean of which is

80.00 Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in

Second Standard Parallel North, through Rg. 12 W.

Chains.

the ground for standard cor. of secs. 32 and 33, marked on brass cap
 T9NR12W in N. half;
 S32 in N. W. and S33 in N. E. quadrants; and raise a mound of stone 2 ft. base 1 1/2 ft. high, N. of cor. Pits impracticable.
 Land, rolling.
 Soil, gravel and rocky; 4th. rate.
 No timber.
 Undergrowth, greasewood, paloverde and cactus.
 March 14: 1911. At this cor. . . ., I set off 2° 43 1/2' S. on the decl. arc; and observe the sun on the meridian at noon, the resulting lat. is 34° 04 1/2' N.

West on S. bdy. of sec. 32
 Over rolling land, through dense brush.
 Difference between measurements of 40.00 chs. by two sets of chainmen is 4 lks. position of middle point
 By 1st. set 40.02 chs.
 By 2nd. set 39.98 chs.; the mean of which is
 40.00 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for standard cor. of sec. 32, marked on brass cap S32 in N. half; and raise a mound of stone 2 ft. base 1 1/2 ft. high, N. of cor. Pits impracticable.
 42.90 Cross wash 15 lks. wide course N. W.
 74.00 Cross road bears N. E. and S. W.
 Difference between measurements of 80.00 chs. by two sets of chainmen is 6 lks. position of middle point.
 By 1st. set 80.02 chs.
 By 2nd. set 79.97 chs.; the mean of which is
 80.00 Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for standard cor. of secs. 31 and 32, marked on brass cap
 T9NR12W in N. half;
 S31 in N. W. and S32 in N. E. quadrants; and raise a mound of stone 2 ft. base 1 1/2 ft. high, N. of cor. Pits Impracticable.
 Land, rolling.
 Soil; gravel and rocks; 4th. rate.
 No timber.
 Undergrowth, greasewood, paloverde and cactus.

West on S. bdy. of sec. 31
 Over rolling land through dense brush.
 27.00 Cross wash 30 lks. wide course S. W.
 31.75 Cross same wash 15 lks. wide course N. W.
 39.50 Cross wash 15 lks. wide course N. W.
 Difference between measurements of 40.00 chs. by two sets of chainmen is 4 lks. position of middle point
 By 1st. set 40.02 chs.
 By 2nd. set 39.98 chs.; the mean of which is
 40.00 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for standard cor. of sec. 31, marked on brass cap S31 in N. half; and raise a mound of stone 2 ft. base 1 1/2 ft. high, N. of cor. Pits impracticable.
 40.50 Enter same wash
 43.25 Leave wash course N. W.
 56.00 Cross wash 10 lks. wide course N. W.
 63.00 Cross wash 15 lks. wide course N. W.
 73.55 Cross road bears N. and S.
 Difference between measurements of 80.00 chs. by two sets of chainmen is 4 lks. position of middle point
 By 1st. set 80.02 chs.
 By 2nd. set 79.98 chs.; the mean of which is
 80.00 Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for standard cor. of Rgs. 12 and

Second Standard Parallel North, through Rg. 13 W.

Chains.

13 W., marked on brass cap
T9N in N. half;
R13WS36 in N. W. and
R13WS31 in N. E. quadrant; dig pits 30 x 24 x 12 ins.
E. and W. 4 ft. and N. of post 8 Ft. dist., and raise a
mound of earth 5 ft. base 3½ ft. high, N. of cor.
Land, rolling and level.
Soil, sandy loam; medium texture; dry; 1st. rate.
No timber.
Undergrowth, greasewood, paloverde and cactus.

March 14, 1911.

General Description.

This line runs over rolling land and the land north and south of the line is rolling and level. There is no water or timber.

Alfred H. Bliss
U. S. Transitman

FINAL OATHS OF ~~DEPUTY~~ SURVEYOR AND HIS ASSISTANTS.

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LIST OF NAMES.

A list of the names of the individuals employed by Alfred N. Oliver
Transitman, United States ~~Deputy~~ Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of the 2nd Standard Parallel N. through Rgs. 7, 8, 9, 10, 11 and 12 W. showing the respective capacities in which they acted:

- R. A. Coombs, W. O. Palmer Chainman.
- A. E. Lyon, J. H. Bates Chainman.
- L. P. Bates Moundman.
- R. L. Bates Moundman.
- C. J. Crowen Axman.
- Ed. Brockway Axman.
- P. Shimpfessel Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Alfred N. Oliver
Transitman, United States ~~Deputy~~ Surveyor, in surveying all those parts or portions of the 2nd Standard Parallel N. through Rgs. 7, 8, 9, 10, 11 and 12 W.

..... 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
- R. A. Coombs, W. O. Palmer Chainman.
 - A. E. Lyon, J. H. Bates Chainman.
 - J. H. Bates Moundman.
 - R. L. Bates Moundman.
 - C. J. Crowen Axman.
 - Ed. Brockway Axman.
 - P. Shimpfessel Flagman.

Subscribed and sworn to before me this 15th day of March, 1911

Alfred N. Oliver
Transitman



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

I, Alfred N. Oliver, ^{Transition} United States ~~Deputy~~ Surveyor, do solemnly swear that, in pursuance of a ~~contract~~ ^{instructions} received from Frank O. Ingalls United States Surveyor General for Arizona, bearing date of the 25 day of August, 1910, 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 second standard Parallel North through Ranges 7, 8, 9, 10, 11 and 12 N.

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.
Transition

Subscribed by said Alfred N. Oliver, and sworn to before me }
this 7th day of Jan'y, 1912

Frank O. Ingalls
U.S. Surveyor General



APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Phoenix, Arizona, Jan'y 4, 1912

The foregoing field notes of the survey of the second standard Parallel North through Ranges 7, 8, 9, 10, 11 and 12 West, S & R Meridian, Arizona

executed by Alfred N. Oliver, U. P. Transition under his ~~contract~~ No. 4, dated August 25, 1910, 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.

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.