

new  
sheet  
11/11/17

Was shut  
out 3/18

1917

4-679.

Book "H"

1917

23 1004  
Sept. 23, 1904  
134

1917.

BOOK 1917

# FIELD NOTES

OF THE SURVEY OF THE

North and West  
Boundaries of  
Township No. 11 North  
Range No. 11 East

1917

1917

Of the *Gilg Salt River* Meridian,

*District of Arizona*

AS SURVEYED BY

*Chas. D. Campbell*, United States Deputy Surveyor,

Under his *joint* Contract No. *116*, dated *April, 18, 1904*, 189

Survey commenced *July 5, 1904*, 189

Survey completed *July 11, 1904*, 189

6-151

1917

135 1A

NAMES AND DUTIES OF ASSISTANTS.

BOOK 1917

Oliver W. Dases, Chairman

C. H. Coetz

Chas. M. Perry, Secretary

BOOK 1917  
INDEX DIAGRAM.

Township 11 North, Range 11 East

<del>78</del> 11 6	<del>79</del> 12 5	<del>80</del> 14 4	<del>81</del> 15 3	<del>82</del> 16 2	<del>83</del> 18 1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

Meanders Page.....

PRELIMINARY OATHS OF ASSISTANTS.

WE, Oliver B. Raser and C. H. Goety  
do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain over 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 M. E. and W. Adams of T. M. R. E.

Oliver B. Raser, Chainman.

C. H. Goety, Chainman.

Subscribed and sworn to before me this 5th

day of July, 1904, 189



Chas. L. Campbell  
of T. M. R. E. Surveyor

WE, \_\_\_\_\_ 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 us, to the best of our skill and ability, in the survey of \_\_\_\_\_

\_\_\_\_\_, Moundman.

\_\_\_\_\_, Moundman.

Subscribed and sworn to before me this 5th

day of July, 1904, 189



WE, I, Chas. M. Brown 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 us to the best of our skill and ability, in the survey of M. E. and W. Adams of T. M. R. E.

Chas. M. Brown Axman.

\_\_\_\_\_, Axman.

Subscribed and sworn to before me this 5th

day of July, 1904, 189



Chas. L. Campbell  
of T. M. R. E. Surveyor

I, \_\_\_\_\_, 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 \_\_\_\_\_

\_\_\_\_\_, Flagman.

Subscribed and sworn to before me this \_\_\_\_\_

day of \_\_\_\_\_, 189



Survey commenced on July 5, 1904, and executed with a H. and Z. C. Easley improved solar compass, No. 210, with telescope attachment. The horizontal limb is provided with two double verniers placed opposite to each other, reading to 30 seconds of arc; which is also the least count of the verniers of the latitude and declination arcs.

The instrument was examined, tested on the true meridian at Spokane, Wash., by Geo. D. Campbell, Civil Engineer, and found correct on June 1, 1904.

1917

I examine the adjustments of the instrument and find no level or collimation errors; then to test the solar apparatus by comparing its indications, resulting from solar observations made during p. m. and a. m. hours with a true meridian determined by observations on Polaris, I proceed as follows:

At the cor. of P. 10 and 11 N. D. 10 and 11 S., established by me; latitude  $34^{\circ} 15' 7''$ ; Longitude  $111^{\circ} 14' 49''$  W.; I set  $34^{\circ} 15' 7''$  on the lat. arc,  $22^{\circ} 47'$   ~~$22^{\circ} 45' 7''$~~  on the decl. arc; and at  $3^h 10^m$  p. m. l. m. t., determine with

BOOK 1917

the solar & meridian and mark  
a point thereof by cutting  
a cross in a stone, firmly  
set in the ground, 5 chs.  
W. of the cor.

July 5, 1907

July 6: At 12<sup>h</sup> 45<sup>m</sup> 15<sup>s</sup> a.m., by  
my watch, which is correct  
within 1 m.t., I observed Polaris  
at eastern elongation in  
accordance with Manual  
of Instructions, and mark a  
point in the line thus  
determined, by cutting a  
groove in a <sup>1/2</sup> in. peg set firmly  
in the ground, 5 chs. W.  
of my station.

At 2<sup>h</sup> 05<sup>m</sup> a.m., l.m.t., I  
lay off the azimuth of Polaris  
to the S. 1/2 to the st. and mark  
the meridian thus determined  
by cutting a groove in the  
stone already set 5 chs. W.  
of my station, on which  
the meridian falls 0.4 ins.  
east of the mark determined  
by the solar.

At 2<sup>h</sup> 50<sup>m</sup> a.m., l.m.t., I  
set off 0° 40' 15" N. on the lat.  
arc, 22° 40' N. on the decl. arc,  
and mark a point in the  
meridian thus determined  
by cutting a notch in the  
stone already set 5 chs. W.  
of my station; this mark  
falls 0.4 ins. east of the  
meridian established by the  
Polaris observations.

The solar apparatus by p.m. and a.m. observations defines positions for meridians, respectively about 0.21" west and 0.11" east of the meridians established by the Polaris observations; therefore I conclude that the adjustments of the instrument are satisfactory.

The magnetic bearing of the true meridian, at 8<sup>h</sup> 20<sup>m</sup> a.m. (m.t.) is N. 14° 20' W.; the angle thus determined gives the mean magnetic declination 14° 20' E.

~~~~~

I commenced at the cor. of Tps. 10 and 11 N., R. 10 and 11 E., established by me.

I thence set a stake north on the E. side of T. 11 N., R. 11 E., bet. sec. 01 and 06.

Went over rolling land through scattering timber and dense undergrowth.

8.00 bear, 50 ft. deep, corner N. E.

8.40 1/2 pine, 20 ft. high, corner E.

4.00 Set a granite stone, 10 x 10 x 8 ins., 10 ins. in the ground, for 1/4 sec. cor., marked 1/4 on the N. face; from which

A pine, 12 ins. dia., bears N. 26° 1/2 E., 110 lks. dist., marked 1/4 on N. E.

An oak, 8 ins. dia., bears N. 20° 1/2 W., 65 lks. dist., marked 1/4 on N. W.

4.41 1/2 inch, bears N. E. and N. W.

4.50 Dry bed of stream, 10 lks. wide, by raising 50 ft. deep, corner N. E.

West boundary of T. 11 N., R. 11 E.

BOOK 1917

48.70 Fence, bears N. E. and S. W.  
 49.10 Road, bears N. E., S. W.  
 55.00 Spruce, 25 ft. high, slopes N. E.  
 68.50 Dry bed of stream, 20 kts. wide, in ravine, 50 ft. deep, course S. E.  
 71.00 Ding wagon road, bears N. W. and S. E.  
 80.00 Set a granite stone, 15 x 10 x 6 ins., 16 ins. in the ground, for cor. of secs. 25, 26, 27 and 28, marked with 5 notches on the N. end, 1 notch on the S. edge; No trees in limits; raised mound of stone, 2 ft. base, 1 1/2 ft. high, ft. of cor., pits impracticable.  
 Land, rolling.  
 Soil, sandy, 1/2nd rate.  
 Timber, scattering pine, oak and juniper.  
 Undergrowth, sage, mugwort and chaparral.  
 Land covered with dense undergrowth 5000 kts.



North bet. secs. 27 and 28.  
 ascend over rolling land through scattering timber and dense undergrowth.  
 8.82 9 pine, 40 ins. dia. on line, mark with 5 notches on N. and S. sides.  
 40.00 Set a granite stone, 10 x 12 x 8 ins., 10 ins. in the ground, for 1/4 sec. cor., marked 1/4 on the N. face; from which  
 1/4 out, 8 ins. dia., bears N. 20° E., 11 kts. dist., marked



1/2 V 20 D I.

A cedar, 14 in. dia, base N. 78° E. 50 lks. dist, marked

1/2 V 20 D I.

54.00 V Spruce, 100 ft. high, slopes th.  
24.00 A spring base E., 20 lks. dist.

24.25 A bed of stream, 20 lks. wide, in ravine, 50 ft. deep, course N. E.

50.00 Set a granite stone, 15 x 10 x 4 in., 1 k in. in the ground, for cor. of sec. 19, 24, 25 and 30, marked with X notches on the N. and 2 notches on the E. edges; from which

A juniper, 6 in. dia, base N. 2 1/2 E. 62 lks. dist, marked S 11 T. 10 R. 11 E. V 19 D I.

A cedar, 14 in. dia, base N. 33° E. 48 lks. dist, marked S 11 T. 10 R. 11 E. V 20 D I.

A juniper, 10 in. dia, base N. 2° E. 26 lks. dist, marked S 11 T. 10 R. 10 E. V 20 D I.

A juniper, 16 in. dia, base N. 45° E. 30 lks. dist, marked S 11 T. 10 R. 10 E. V 24 D I.

Land, rolling. Soil, sandy & calc. Timber, scattering juniper, oak and pine. Undergrowth, sage, mugwort and choparral. Land covered with dense undergrowth, 5000 ft.

Trails bet. sec. 19 and 24  
Crossing over rolling land through scattering timber.

BOOK 1917

and dense undergrowth  
4000 Begin steep ascent.  
4000 Set a basal stone, 18x14x10  
ins., 12 ins. in the ground, for  
N. sec. cor., marked  $\frac{1}{4}$  of the  
th. face; from which

A cedar, 14 ins. dia, bears  $\frac{1}{4}$   
N. 40° E., 10 lbs. dist, marked  
 $\frac{1}{4}$  V 19 D P.

A cedar, 16 ins. dia, bears  
N. 54° th., 12 lbs. dist, marked  
 $\frac{1}{4}$  V 24 D P.

5400 Summit of divide bet. Ponto  
River and East Trade River,  
400 ft. high, bears E. and th.  
N. sec. cor.

5000 Set a basal stone, 18x14x10  
ins., 12 ins. in the ground, for  
cor. of sec. 10, 18, 19 and 24,  
marked with notches on the N.  
and E. edges; from which

A <sup>cedar</sup> 16 ins. dia, bears N. 44° E.,  
16 lbs. dist, marked T. 11 N.  
R. 11 E. V 15 D P.

A pine, 5 ins. dia, bears N.  
42° E., 85 lbs. dist, marked T. 11 N.  
R. 11 E. V 19 D P.

A cedar, 10 ins. dia, bears  
N. 14° th., 95 lbs. dist, marked  
T. 11 N. R. 10 E. V 24 D P.

A cedar, 14 ins. dia, bears N.  
62° th., 107 lbs. dist, marked  
T. 11 N. R. 10 E. V 15 D P.

Land, rolling and mountainous.  
Soil sandy and gravelly, and  
and red clay.

Timber, scattering pine, cedar,  
oak and juniper.

Undergrowth, choparral and  
sage.

Mountainous or lands covered

with dense undergrowth,  
5 oaks.



North bet. sec. 10 and 18.  
Over mountainous land  
through scattering timber  
and dense undergrowth.

40.00 Set a basal stone, 10x12x8 ins.,  
10 ins. in the ground, for  $\frac{1}{4}$   
sec. cor, marked  $\frac{1}{4}$  on the  
N. face; from which

An pine, 16 ins. dia, bears  
T. 61 $\frac{1}{2}$  C, 420 lbs. dist, marked  
 $\frac{1}{4}$  T 15 D V.

An oak, 16 ins. dia, bears  
47 $\frac{1}{2}$  ft, 50 lbs. dist, marked  $\frac{1}{4}$   
T 10 D V.

50.00 Stake trail, bears C and H.

57.00 Saw, 10-5 ft. deep, cross H.

69.00 Tree, 30 ft. high, slopes  
toward the N.

80.00 Set a slab stone, 24x24x14 ins.,  
18 ins. in the ground, for cor.  
of sec. 7, 10, 18 and 18, marked  
with 4 notches on the N. and  
4 notches on the S. edge;  
from which

An oak, 14 ins. dia, bears  
T. 620 C, 159 lbs. dist, marked  
T. 117 R 11 C T 20 D V.

An oak, 8 ins. dia, bears  
T. 400 C, 52 lbs. dist, marked  
T. 117 R 11 C T 15 D V.

An oak 14 ins. dia, bears  
41 ft, 41 lbs. dist, marked  
T. 117 R 10 C T 10 D V.

An oak, 10 ins. dia, bears  
42 ft, 40 lbs. dist, marked  
T. 117 R 10 C T 12 D V.

Land, mountainous

BOOK 1917

Soil, sandy and stony; and  
and red water.

Timber, scattering pine, oak,  
and juniper.

Undergrowth, sage, soft bushes  
and chokesaw.

Mountainous or lands covered  
with dense undergrowth,  
sagebrush.

Passport at way pointed  
taking the latitude.  
July 6, 1904.



North of sec. 2 and 12  
Over rolling land, through  
scattering timber and  
dense undergrowth

19.00 Saw, 50 ft. deep, course th.

21.00 Tree, 20 ft. high, slope  
toward the N.

26.00 Saw, 100 ft. deep, course th.

40.00 Set a stone, 18x10x12

in, 12 in. in the ground,  
for  $\frac{1}{4}$  sec. cor., marked  $\frac{1}{4}$  on

the N. face; from which  
Q cedar, 8 in. dia., bears

N. 27° E, 105 lvs. dist., marked  
 $\frac{1}{4}$  V 10 V.

Q cedar, 14 in. dia., bears  
N. 00° th, 175 lvs. dist., marked

$\frac{1}{4}$  V 10 V.

59.00 Saw, 20 ft. deep, course th.

64.00 Tree, 20 ft. high, slope th.

68.00 Stake road, bears N. E. and V. th.

68.00 Saw, 50 ft. deep, course V. th.

Have scattering timber

80.00 Set a stone, 18x10x12

in, 12 in. in the ground  
for cor. of sec. 11, 6, 7 and 12.

marked with 1 notch on the N. and 5 notches on the E. edges. No trees in limits; raised mound of stone, 2 ft. base, 1 1/2 ft. high, N. of cor., pits impracticable. Land, rolling and mountainous. Soil, sandy and gravelly; red and red earth. Timber, scattering pine, oak and juniper. Undergrowth, sage, oak, laurel, and sandbarrel. Mountainous or lands covered with dense undergrowth; rocks.

July 7: At 5<sup>h</sup> 50<sup>m</sup> a.m. (m.t.) set off 0<sup>h</sup> 42' 20" N. on the lat. arc; 22' 05" N. on the decl. arc; and determining a meridian with the poles at the cor. of recs. 1, 6, 7 and 12.

Distance run North bet. recs. 1 and 6. Ascend over rolling and mountainous land through dense undergrowth.

4000 Set a slate stone, 15 x 8 x 6 ins., 10 ins. in the ground, for the cor., marked 4 on the N. face. No trees in limits; raised mound of stone, 2 ft. base, 1 1/2 ft. high, N. of the cor., pits impracticable.

5500 Begin abrupt ascent.  
 6600 Steeply, 600 ft. high, bears E. and N. aspect.  
 8000 Set a slate <sup>stone</sup> 15 x 14 x 10 ins., 10 ins. in the ground, for

West boundary of T. 11 N., R. 11 E.

BOOK 1917

cor. of Tps. 11 and 11 1/2 N., Rs. 10 and 11 E., marked with 6 notches on all four edges; from which

A juniper, 10 ins. dia., bears N. 81° E., 145 lks. dist., marked S. 11 1/2 N., R. 11 E., T. 10, R. 10

A juniper, 24 ins. dia., bears N. 41 1/2° E., 94 lks. dist., marked S. 11 N., R. 11 E., T. 10 R. 10

A juniper, 26 ins. dia., bears N. 24 1/2° E., 70 lks. dist., marked S. 11 N., R. 10 E., T. 10 R. 10

A juniper, 20 ins. dia., bears N. 40 1/2° E., 55 lks. dist., marked S. 11 1/2 N., R. 10 E., T. 10 R. 10

Land, rolling and mountainous.

Soil, sandy and stony; and and forest cover of timber, scattering pine and juniper.

Undergrowth; laurel and chapparal.

Mountainous or land covered with dense undergrowth of oaks.

At this T.P. cor.; I set off ~~22° 35'~~ <sup>22° 35'</sup> N. on the decl. arc; and at 12 1/2 04 m. l.m.t., observe the sun on the meridian; the resulting latitude is 30° 0' 20 1/2" N. which agrees with the proper lat. July 7, 1904

~~~~~

From the cor. of T. 10 N. and 11 1/2 W., R. 11 and 11 1/2 E., just established by me, I run V. 59°-50' N. on a random line along the N. Bdy. of T. 11 N., R. 11 E., setting 1 temp. 1/4 sec. and rec. cor. at intervals of 40 chs., and at 478.40 chs., intersecting the Rand V. line, 98 lks. S. of the cor. of T. 10 N. and 11 1/2 W., R. 10 and 11 E. This falling answers to a correction of 0° 07', or 1/16 lks. per mile, coming from the N. E. cor. of the T. 10 N.

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July 9, 1904  
 July 10, 1904. at 10 h. am. l.m.t. I set off 37° 20' N on the lat. arc, 22° 14 1/2' N on the decl. arc and determine a meridian with the solar at the cor. to T. 10 N., R. 10 & 11 E., thence V. 59° 56' N. on a true line bet. sec. 6 and 31. Beyond over mountainous land through scattering timber and dense undergrowth.

- 11. No dead, 200 ft. deep, course N. 50° E.
- 15.00 Spruce, 100 ft. high, slopes toward the N. E.
- 28.00 Set a slate stone, 15 x 12 x 6 ins., 10 ins. in the ground, for 1/4 sec. cor., marked 1/4 on the N. face, from which  
 A juniper, 8 ins. dia, bears N. 61 1/2° E., 50 lks. dist, marked 1/4 V 31 B V.
- A juniper, 10 ins. dia, bears V. 20° E., 145 lks. dist, marked 1/4 V 6 B V.

North boundary of T. 11 N., R. 11 E.

BOOK 1917

42.00 Draw, 100 ft. deep, course N. E.

55.15 Road bears N. E. and S. H.

65.00 Spruce, 100 ft. high, slopes N. E. Only heavy timber.

70.20 Road bears N. E. and S. H.

78.40 Set a slate stone, 18 x 14 x 8 ins., 14 ins. in the ground, for cor. of sec. 5, 6, 34 and 35, marked with 5 notches on E. and 1 notch on S. edge; from which a pine, 10 ins. dia., bears N. 65° E., 100 lbs. dist., marked T. 11 N. R. 11 E. & 34 & 35.

A pine, 10 ins. dia., bears S. 40° E., 50 lbs. dist., marked T. 11 N. R. 11 E. & 34 & 35.

A pine, 10 ins. dia., bears S. 30° E., 19 lbs. dist., marked T. 11 N. R. 11 E. & 34 & 35.

A juniper, 8 x ins. dia., bears N. 59° E., 55 lbs. dist., marked T. 11 N. R. 11 E. & 34 & 35.

Land, mountainous.

Soil, sandy and stony; red and white.

Timber, pine, oak and juniper.

Undergrowth, sage and laurel.

Mountainous, heavily timbered & lands covered with dense undergrowth & rocks.

N. 59° 56' E. on a true line bet. sec. 5 and 34.

Over mountainous land through heavy timber and dense undergrowth.

80.00 Stock trail bears N. E., S. H. Over spruce and draws.



40.00 Like survey point for  $\frac{1}{4}$  sec.

✓ cor. falls on a stone in place,  $5 \times 4 \frac{1}{2}$  ft. above ground; at the exact point, I cut a cross for  $\frac{1}{4}$  sec. cor., and marked  $\frac{1}{4}$  on N. side of cross, from which

An pine, 20 ins. dia, bears N.  $40^{\circ}$  E, 29 lbs. dist, marked  $\frac{1}{4}$  ✓  $\frac{1}{4}$  ✓  $\frac{1}{4}$  ✓  $\frac{1}{4}$  ✓

An oak, 10 ins. dia, bears N.  $40^{\circ}$  E, 45 lbs. dist, marked  $\frac{1}{4}$  ✓  $\frac{1}{4}$  ✓  $\frac{1}{4}$  ✓  $\frac{1}{4}$  ✓

44.00 Draw, 25 ft. deep, course N. 1/4.

47.00 Trail, bears N. 1/4 and S. E.

53.00 ✓ pine, 20 ft. high, slopes toward the N. 1/4. I found over small draws and spurs.

50.00 Set a sandstone,  $24 \times 12 \times 14$

✓ ins., 18 ins. in the ground, for cor. of secs. 4, 5, 6 and 7, marked with 4 notches on E and 3 notches on S edge; from which

An oak, 8 ins. dia, bears N.  $65^{\circ}$  E, 55 lbs. dist, marked  $\frac{1}{4}$  ✓  $\frac{1}{4}$  ✓  $\frac{1}{4}$  ✓  $\frac{1}{4}$  ✓

An oak, 10 ins. dia, bears N.  $50^{\circ}$  E, 157 lbs. dist, marked  $\frac{1}{4}$  ✓  $\frac{1}{4}$  ✓  $\frac{1}{4}$  ✓  $\frac{1}{4}$  ✓

An oak, 8 ins. dia, bears N. 17. 1/4, 45 lbs. dist, marked  $\frac{1}{4}$  ✓  $\frac{1}{4}$  ✓  $\frac{1}{4}$  ✓  $\frac{1}{4}$  ✓

A juniper, 24 ins. dia, bears N.  $20^{\circ}$  E, 14 lbs. dist, marked  $\frac{1}{4}$  ✓  $\frac{1}{4}$  ✓  $\frac{1}{4}$  ✓  $\frac{1}{4}$  ✓

Land, mountainous.

Soil, sandy, red and red clay. Timber, pine oak and juniper. Undergrowth, cog and laurel.

BOOK 1917

Mountainous, heavily timbered. or lands covered with dense undergrowth; 5000 ft. July 10: At this sec. cor., a set of  $220^{\circ} - 141^{\circ}$  N. on the def. arc; and at  $12200^m$  l.m.t., observe the run on the meridian; the resulting latitude is  $34^{\circ} - 30\frac{1}{2}^{\circ}$  N., which is about correct.

~~~~~

$7890 - 86^{\circ}$  C. on a tree, line bet. sec. 4 and 33. Ascend over mountainous land, through scattering timber and dense undergrowth.

4090 Set of sand stone,  $15 \times 8 \times 6$  ins., 10 ins. in the ground, for sec. cor., marked  $\frac{1}{4}$  on the N. face; from which

Amoak, 14 ins. dia, bears N.  $54^{\circ}$  E., 22 lbs. dist, marked  $\frac{1}{4}$   $33$   $30$   $31$

A pine, 20 ins. dia, bears N.  $20^{\circ}$  E., 22 lbs. dist, marked  $\frac{1}{4}$   $34$   $30$   $31$

4300 Draw, 100 ft. deep, course N. H. 5300 Spruce, 100 ft. high, slopes toward the N. H.

7100 Dry bed of creek, 10 lbs. wide, in ravine, 100 ft. deep, course N. H. Find our bottom.

7970 Hagon road, bears N. E. and S. H.

8000 Set of sand stone,  $15 \times 10 \times 10$  ins., 12 ins. in the ground, for cor. of sec. 3, 4, 33 and 34, marked with notches on the E. and H. edges; from which

A pine, 20 ins. dia, bears  
N. 47 1/2 E, 147 lbs. dist. marked  
P. 11 1/2 N., R. 11 E V 34 D 9.

An oak, 14 ins. dia, bears  
N. 47 1/2 E, 152 lbs. dist. marked  
P. 11 1/2 N., R. 11 E V 30 D 9.

An oak, 14 ins. dia, bears  
N. 2 1/2 E, 95 lbs. dist. marked  
P. 11 1/2 N., R. 11 E V 4 D 9.

An oak, 5 ins. dia, bears  
N. 5 1/2 E, 82 lbs. dist. marked  
P. 11 1/2 N., R. 11 E V 30 D 9.

Land, mountainous.

1917

Soil, sandy, red color.  
Timber, Spruce and oak.  
Undergrowth, sage, laurel  
and choppersoft.  
Mountainous or lands covered  
with dense undergrowth,  
strata.

V. 592 08' E. on a true line  
bet. rec. v and 04.  
Cross creek bottom, through  
scattered timber and dense  
undergrowth.

- 19.50 Hagby road, bears N. 47 1/2 E.
- 29.50 Same road, bears N. E, V. 47.
- 34.00 Lion creek, bottom, bears  
N. 47 and V. E.

40.00 Set a sandstone, 10x10x5 ins.,  
10 ins. in the ground, for  
rec. cor., marked 7 on the  
N. face, from which

An oak, 5 ins. dia, bears N.  
2 1/2 E, 50 lbs. dist. marked  
V 34 D 9.

A pine, 10 ins. dia, bears V.  
5 1/2 E, 119 lbs. dist. marked 7  
V 30 D 9.

North boundary of T. 117, R. 11 E.

BOOK 1917

5000 Spruce, 100 ft. high, slopes toward the S. Second. 6000 Dry bed of stream, 10 lbs. wide, in casing, 12 ft. deep course S. th. Up bank bottom.

7000 Level creek bottom, bears S. th. and ascend.

7800 Spruce, 100 ft. high, slopes S. th.

8000 Set a range stake, 10 x 1 1/2 x 5 ins. 10 ins in the ground for cor. of sec. 2, 3, 4 and 5, marked with 2 notches on C and 4 notches on the S. edge; found which

Ansak, 5 ins. dia, bears N. 2 1/2° E, 20 lbs. dist, marked T. 117 R. 11 E. S. 20 0 0 0.

A juniper, 14 ins. dia, bears S. 50° E, 24 lbs. dist, marked T. 117 R. 11 E. S. 4 0 0 0.

A pine, 8 ins. dia, bears S. 68° th, 55 lbs. dist, marked T. 117 R. 11 E. S. 0 0 0 0.

Ansak, 18 ins. dia, bears N. 68° th, 69 lbs. dist, marked T. 117 R. 11 E. S. 0 4 0 0.

Land, level and mountainous. Soil, sandy loam and gravelly; first and second cuts. Timber, pine, oak and juniper. Undergrowth, laurel, mesquite and choparot. Mountainous or lands covered with dense undergrowth; 8000 ft.

~~~~~  
S. 89° 56' E. on a true line bet. sec. 2 and 5. Ascend over mountainous

land through scattering timber and dense undergrowth.

12.00 1/2 off of descent, 100 ft. below sec. cor, bears N. E. and S. W. of line over creek bottom.

15.10 Road, bears N. E. and S. W.

23.00 Same road bears N. W. and S. E.

40.00 Set a sandstone, 15x12x8 ins, 10 ins. in the ground, for 1/4 sec. cor, marked 1/4 on the N. face, from which

A pine, 6 ins. dia, bears N. 60 E, 85 lbs. dist, marked 1/4 V 30 @ E.

A pine, 40 ins. dia, bears N. 230 E, 89 lbs. dist, marked 1/4 V 2 @ E.

60.00 Leave creek bottom, bears N. E. and S. W. and ascend through heavy timber and scattering undergrowth.

72.00 1/2 ascent, 100 ft. high, slope.

80.00 Set a sandstone, 15x12x10 ins, 10 ins. in the ground, for cor. of secs. 1, 2, 65 and 66, marked with 1 notch on E and 5 notches on the N. edge, from which

A pine, 12 ins. dia, bears N. 70 E, 44 lbs. dist, marked 1/2 N. P. 11 E V 36 @ E.

A juniper, 16 ins. dia, bears N. 100 E, 50 lbs. dist, marked 1/2 N. P. 11 E V 1 @ E.

A pine, 14 ins. dia, bears N. 50 E, 59 lbs. dist, marked 1/2 N. P. 11 E V 2 @ E.

A pine, 12 ins. dia, bears N. 240 E, 49 lbs. dist, marked 1/2 N. P. 11 E V 20 @ E.

North boundary of T. 11 N., R. 11 E.

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Land, level and mountainous.  
 Soil, sandy loam and  
 gravelly dirt and red soil.  
 Timber, pine, oak and  
 juniper.  
 Undergrowth, sage, low  
 oak and chestnut.  
 Mountainous, heavily timbered  
 or lands covered with  
 dense undergrowth; spruce.

July 11: At 3<sup>h</sup> 10<sup>m</sup> p.m. l.m.t.  
 Left of J. 04<sup>d</sup> 20<sup>h</sup> N. on the lat.  
 acc. 22<sup>d</sup> 50<sup>h</sup> N. on the decl. acc.  
 and determining a meridian of  
 the cor. of secs. 1, 4, 05 and 06,  
 found I run

T. 89° 50' E. on a true line bet.  
 secs. 1 and 06.

Cross mountainous land through  
 heavy timber and scattering  
 undergrowth.

12.10 Road bet. sec. 05 and T. 06  
 Cross draws and spurs.

02.20 Trail, N. E. and T. 06

40.00 Set a sand stone, 15 x 12 x 4 ins,  
 10 ins in the ground, for  $\frac{1}{4}$  sec. cor.,  
 marked  $\frac{1}{4}$  North N. face, from which  
 A pine, 16 ins. dia, base N. 86th, 17  
 lbs. dist, marked  $\frac{1}{4}$  T. 06 R. 09

A pine, 10 ins. dia, base T. 06  
 20 lbs. dist, marked  $\frac{1}{4}$  T. 1 R. 09

68.00 Spur, 100 ft high, slopes T. 06

24.00 Draw, 100 ft. deep, cross T. 06

29.60 Trail N. E. and T. 06

5.00 The cor. of T. 11 and 11 $\frac{1}{2}$  N.,  
 R. 11 and  $\frac{1}{2}$  E.

Land, mountainous  
 Soil, sandy, red soil.  
 Timber, pine, oak and juniper.

Undergrowth, oak, tamarock and choposcal.

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Mountainous, or heavily timbered lands, & rocks.

Overcast at noon prevented taking the latitude.

July 11, 1904.

General description.

Township 11 North, Range 11 East is mountainous, rolling and level. The hill sides and summits are covered with a good growth of bunch grass. The flats and little valleys are rich and fertile, and by irrigating bring large yields of hay and vegetables. There are several fine ranches in this township. The region is watered freely well by springs and wells. The timber consists of pine, oak, tamarock and Juniper.

Chas. L. Campbell  
U. S. Geol. Surveyor

Note - No one authorized to administer oaths other than myself, without great

North boundary of T. 117, R. 11 C.

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inconvenience, delay and expense, I authorize the required preliminary and final work.

Chas. L. Campbell  
U. S. Dept. Surveyor

Latitudes, Departures and Closing Error

Line	Bearing	Dist.	Latitudes		Departures	
			N.	S.	E.	W.
S. 89° 51' 30" W.		479.00		0.49		479.00
N. 11° 00' 00" E.		480.00	480.00			
N. 89° 56' 30" E.		478.40		0.98	478.40	
E. 11° 00' 00" S.		480.00		480.00		
Convergence					0.49	
Totals			480.00	480.98	478.89	479.00
Closing Error				0.98		0.11

5.11



LIST OF NAMES.

BOOK 1917

A list of the names of the individuals employed by Chas. L. Campbell

....., 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

N. E. and W. Ranges of T. 11 N. R. 11 E.  
showing the respective capacities in which they acted:

Oliver B. Raser....., Chainman.

C. H. Goetz....., Chainman.

....., Moundman.

....., Moundman.

Chas. M. Brown....., Axman.

....., Axman.

....., Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Chas. L. Campbell

....., United States Deputy Surveyor, in surveying all those parts or portions of the North, East and West

Boundaries of T. 11 North

W. 11 East

..... of the Gilgand

Salt River meridian, District 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

Oliver B. Raser....., Chainman.

C. H. Goetz....., Chainman.

....., Moundman.

....., Moundman.

Chas. M. Brown....., Axman.

....., Axman.

....., Flagman.

Subscribed and sworn to before me this 11th  
day of July, 1904 189



Chas. L. Campbell  
U. S. Deputy Surveyor

15922  
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FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Charles L. Campbell, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from Frank S. Ingalls United States Surveyor General for Arizona, bearing date of the 18th day of April, 1894, 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 North, East and West Boundaries of T. 11 N., R. 11 E. of the Gila and Salt River Base of the Gila and Salt River

Salt River meridian, in the State 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; and should any fraud be detected, I will suffer the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

Charles L. Campbell  
United States Deputy Surveyor.

Subscribed by said Charles L. Campbell, and sworn to before me }  
this 21 day of July, 1894.



W. M. Munster  
Clerk District Court in and for  
Coconino County, Arizona

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Phoenix, Ariz. January 3rd 1905

The foregoing field notes of the survey of the North, East and West Boundaries of T. 11 N., R. 11 E. of the Gila and Salt River Base and Meridian, in the territory of Arizona

executed by Charles L. Campbell U. S. Deputy Surveyor under joint his contract No. 116, dated April 18, 1904, 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. Ingalls  
United States Surveyor General.

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

United States Surveyor General.