

NOV 24 1905

1897

BOOK 1897

W. H. Hesse

FIELD NOTES

OF THE SURVEY OF THE

subdivision lines of Tp. 6 S. Rg. 17 E.

1897

1897

Of the Gila and Salt River Meridian,

Territory of Arizona.

AS SURVEYED BY

John F. Hesse, United States Deputy Surveyor,

Under his Contract No. 135, dated June 16, 1905, 190

Survey commenced October 15, 1905, 190

Survey completed October 18, 1905., 190

NAMES AND DUTIES OF ASSISTANTS.

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W. W. Oliver Chairman.

B. M. Hyde Chairman.

Frank Robertson Axman.

H. S. Young Flagman.

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INDEX DIAGRAM.

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Handwritten annotations in the diagram:

- Section 12: 4
- Section 14: 4
- Section 13: 3
- Section 23: 3
- Section 24: 2
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WE, W. W. Oliver and B. M. Hyde
do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of the subdivision lines of Tp. 6 S. Rg. 17 E.

W. W. Oliver, Chainman.
B. M. Hyde, Chainman.

Subscribed and sworn to before me this 15th.
day of October, 190 5



John P. Hesse
U. S. Deputy 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 _____
day of _____, 190 _____



~~W. W.~~ I. Frank Robertson ~~and~~

do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given me, to the best of my skill and ability, in the survey of of the subdivision lines of Tp. 6 S. Rg. 17 E.

Frank Robertson, Axman.
_____, Axman.

Subscribed and sworn to before me this 15th.
day of October, 190 5.



John P. Hesse
U. S. Deputy Surveyor

I, H. S. Young, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of the subdivision lines of Tp. 6 S. Rg. 17 E.

H. S. Young, Flagman.

Subscribed and sworn to before me this 15th.
day of October, 190 5



John P. Hesse
U. S. Deputy Surveyor.

No notary available without great expense and loss of time.

Subdivision of Tp. 6 S. Rg. 17 E.

Chains.

The E. bdy. of Tp. 6 S. Rg. 17 E. runs over land that is broken by numerous deep box canons, and which is un-surveyable, the line could be surveyed north about one mile from the cor. of Tps. 6 and 7 S. Rgs. 17 and 18 E. but beyond that point it is impossible to run further north, and as this township is extremely rough and mountainous, and contains no agricultural land excepting a narrow strip in the canon of Arivaipa Creek, I confine my survey to the lines which will include all these agricultural lands and do not survey the boundaries or subdivide the rest of the Tp.

Survey commenced October 15, 1905, and executed with a Young and Sons, light mountain transit, No. 7532 with solar attachment. 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, tested on the true meridian at Phoenix, found correct, and was approved by the surveyor general for Arizona

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

At the cor. of secs. 2, 3, 34 and 35 on the south boundary of the township; Latitude $32^{\circ} 51' 21''$ N.; longitude $110^{\circ} 34' 17''$ W., I set off $32^{\circ} 51' 1/2''$ N. on the lat. arc; $8^{\circ} 31'$ S. on the dec'l. arc; and, at 3h. 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 5h. 55m. p.m. by my watch, which has correct l.m.t. I observe Polaris at eastern elongation, in accordance with Manual of Instructions, and mark a point in the line thus determined, on a peg driven in the ground, 5 chs. N. of my station.

October 15, 1905.

October 16; At 6h. 30m. a.m. l.m.t., I lay off the azimuth of Polaris, $1^{\circ} 26'$ to the west, and mark the meridian thus determined, by cutting a small groove in the stone set October 15, on which the meridian falls on the mark determined by the solar.

At 7h. 00m. a.m. l.m.t. I set off $32^{\circ} 51' 1/2''$ N. on the lat. arc; $8^{\circ} 42'$ S. on the dec'l. arc; and mark a point in the meridian determined with the solar by a cross on the stone already set 5 chs. N. of my station; this mark coincides with the meridian established by the Polaris observation.

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

The magnetic bearing of the true meridian, at 7h. 15m. a.m. is N. 13° W.; the angle thus determined gives the magnetic declination 13° E.

From the cor. of secs. 2, 3, 34 and 35, previously described

I now run

N. $0^{\circ} 01'$ W. bet. secs. 34 and 35.

Descending rough N. slope of mountain.

20.50 Cross wash 40. lk s. wide course W. and ascend.

40.00 Set a granite stone 18 x 12 x 6 ins. 12 ins. in the ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on W. face; from which

A paloverde 4 ins. diam. bears N. 45° E. 77

lks. dist. marked $\frac{1}{4}$ S 3 5 B T

A paloverde 4 ins. diam. bears S. 80° W. 56

lks. dist. marked $\frac{1}{4}$ S 3 4 B T.

41.65 Top ridge bears E. and W. and descend.

Chains.
80.00

Set a granite stone 20 x 10 x 8 ins. 15 ins. in the ground for cor. of secs. 26, 27, 34 and 35 marked with 1 groove on S. and 2 grooves on E. faces; and raise a mound of stone 2 ft. base 1 1/2 ft. high W. of cor. Pits impracticable.
Land, mountainous.
Soil, stony; 4th. rate.
No timber.
Mountainous land 80.00 chains.

N. 89° 45' E. bet. secs. 26 and 35.

Over rough mountains.

14.90

Cross wash 20 lks. wide course N. W.

40.00

Set a granite stone 18 x 10 x 8 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face; and raise a mound of stone 2 ft. base 1 1/2 ft. high N. of cor. Pits impracticable.

64.50

Cross wash 8 lks. wide course N. E.

70.00

Cross wash 40 lks. wide course N. W.

76.25

Cross wash 10 lks. wide course S. W.

80.00

Set a granite stone 18 x 16 x 10 ins. 12 ins. in the ground for cor. of secs. 25, 26, 35 and 36 marked with 1 groove on S. and E. edges; and raise a mound of stone 2 ft. base 1 1/2 ft. high W. of cor. Pits impracticable
Land, mountainous.

Soil, rocky; 4th. rate.

No timber.

Mountainous land 80.00 chains.

October 15, 1905.

~~October 16; At 7h. 00m. a.m. l.m.t., I set off 32° 52' N. on the lat. arc; 8° 42' S. on the dec'l. arc; and determine a meridian with the solar at the cor. of secs. 25, 26, 35 and 36.~~

Thence I run

N. 0° 01' W. bet. secs. 25 and 26.

Ascending along rough west slope of mountain.

0.65

Cross wash 15 lks. wide course S. W.

13.20

Cross wash 8 lks. wide course S. W.

27.00

~~Top of bridge bears 30 E. and W. and descends rough N. slope.~~

40.00

Set a granite stone 18 x 12 x 6 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face; and raise a mound of stone 2 ft. base 1 1/2 ft. high W. of cor. Pit impracticable.

45.50

Cross wash 8 lks. wide course N. W.

56.50

Cross wash 25 lks. wide course N. E.

70.00

Cross same wash 30 lks. wide course N. W.

75.15

Cross wash 15 lks. wide course N. W.

80.00

Set a granite stone 18 x 12 x 4 ins. 12 ins. in the ground for cor. of secs. 23, 24, 25 and 26 marked with 2 notches on S. and 1 notch on E. edges; and raise a mound of stone 2 ft. base 1 1/2 ft. high W. of cor. Pits impracticable.

Land mountainous.

Soil, rocky; 4th. rate.

No timber.

Mountainous land 80.00 chains.

October 16; At this cor. I set off 8° 50 1/2' S. on the dec'l. arc; and observe the sun on the meridian at noon the resulting lat. is 32° 53' N.

N. 89° 45' E. bet. secs. 24 and 25.

Ascending steep W. slope of mountain.

19.00

~~Top of bridge bears 30 E. and N. W. and along steep rough N. slope of mountain cor. marked 1/4 on N. face; descend along N. E. slope of mountain.~~

26.00

~~Descend steep rocky E. slope into canyon.~~

28.00

~~Cross creek 5 lks. wide in bottom of canyon, course N. and ascend steep W. slope of mountain.~~

34.10

~~No timber.~~

40.00

Set a granite stone 18 x 8 x 6 ins. 12 ins. in the ground

Subdivision of Tp. 6 S. Rg. 17 E.

Chains

for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N. face; 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, scattering mesquite.
 Mountainous land 40.00 chains.

October 17; At 7h. 00m. a.m., l.m.t., I set off 32° 53' N. on the lat. arc; 9° 04' S. on the dec'l. arc; and determine a meridian with the solar at the cor. of secs. 23, 24, 25 and 26

Thence I run

N. 0° 01' W. bet. secs. 23 and 24.

Along at foot of mountain through very dense brush.

- 4.40 Cross fence bears N. E. and S. W.
- 4.55 Cross irrigating ditch course S. W. , 4 lks. wide.
- 12.00 Cross irrigating ditch 4 lks. wide course S. E.
- 13.15 Cross fence bears N. W. and S. E. and ascend.
- 23.11 Top of ridge bears E. and W. From this point J. D. Brandenburgs house bears N. 53° 20' W. 8.45 chains dist.
 Emil Kielberg's house bears S. 81° 20' W. 4.15 chs.dist.
 Descend N. slope of ridge.
- 25.75 Cross irrigating ditch 4 lks. wide course S. W. and over bottom land.
- 27.75 Cross Arivaipa Creek 25 lks. wide course S. W.
- 28.25 Cross road bears N. E. and S. W.
- 28.40 Cross fence bears N. E. and S. W.
- 34.00 Cross fence bears N. E. and S. W. leave brush and ascend over rough rolling S. E. slope of mountains.
- 40.00 Point for $\frac{1}{4}$ sec. cor. falls on a granite rock in place 3 x 2 x 1 ft. above ground, I mark a cross (x) at exact point for $\frac{1}{4}$ sec. cor. and $\frac{1}{4}$ on W. of cross; and raise a mound of stone 2 ft. base 1 $\frac{1}{2}$ ft. high W. of cor. Pits impracticable.
- 55.00 Cross wash 10 lks. wide course S. E.
- 66.80 Cross wash 12 lks. wide course E.
- 80.00 Set a granite stone 18 x 12 x 4 ins. 12 ins in the ground for cor. of secs. 13, 14, 23 and 24 , marked with 3 notches on S. and 1 notch on E. edges; and raise a mound of stone 2 ft. base 1 $\frac{1}{2}$ ft. high W. of cor. Pits impracticable.
 Land mountainous and level.
 Soil, sandy and stony; 1st. and 4th. rate.
 No timber.
 Undergrowth, mesquite alder and buck brush.
 Mountainous land and land covered with dense undergrowth 80.00 chains.

N. 89° 45' E. bet. secs. 13 and 24.

Descending through dense brush.

- 5.00 Cross wash 50 lks. wide course S. E.
- 12.00 Cross wash 15 lks. wide course S. E.
- 13.95 Cross fence bears N. W. and S. E.
- 15.70 Cross fence bears N. E. and S. W.
- 17.00 The N. W. cor. of C. Buzan's house bears S. 180 lks. dist
- 17.60n The N. W. cor. of house bears S. 60 lks. dist.
- 18.50 Cross fence bears N. E. and S. W.
- 18.70 Cross irrigating ditch 4 lks. wide course S. W.
- 23.60 Cross fence bears N. E. and S. W.
- 25.00 Cross Arivaipa Creek, 25 lks. wide course S. W. and ascend steep rough W. slope of mountain.
- 40.00 Set a malpais stone 18 x 8 x 6 ins. 12 ins. in the ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N. face; and raise a mound of stone 2 ft. base 1 $\frac{1}{2}$ ft. high N. of cor. Pits impracticable.
 Land, mountainous and level.
 Soil, sandy and rocky; 1st. and 4th. rate.
 Timber, a few scattering cottonwoods along the creek.

Chains.

Undergrowth, mesquite and buck brush.
 Mountainous land and land covered with dense undergrowth
 40.00 chains.
 October 17; At this cor. I set off $9^{\circ} 12' 1/2''$ S. on the
 dec'l. arc; and observe the sun on the meridian at noon;
 the resulting lat. is $32^{\circ} 54' N.$ ✓

N. $0^{\circ} 01' W.$ bet. secs. 13 and 14.
 Through dense brush.
 1.00 Cross wash 50 lks. wide course S. E. and ascend steep
 rough S. slope of mountain.
 29.75 Cross wash 15 lks. wide course S. E.
 40.00 Set a granite stone 18 x 10 x 8 ins. 12 ins. in the
 ground for $1/4$ sec. cor. marked $1/4$ on W. face; and raise
 a mound of stone 2 ft. base $1 1/2$ ft. high W. of cor.
 Pits impracticable.
 59.00m Over rough broken top of mountain. *descend*
 80.00 Point for cor. falls on a granite rock in place 2 x 2 x
 $1 1/2$ ft. above ground, I mark a cross (x) at exact
 point for cor. of secs. 11, 12, 13 and 14 with 4 grooves
 S. and 1 groove E. of cross; and raise a mound of stone
 2 ft. base $1 1/2$ ft. high W. of cor. Pits impracticable
 Land, rough and mountainous.
 Soil, rocky 4 th. rate.
 No timber.
 Undergrowth, mesquite and paloverde.
 Mountainous land and land covered with dense undergrowth
 80.00 chains.

N. $89^{\circ} 45' E.$ bet. secs. 12 and 13.
 Descending rough E. slope of mountain.
 32.00 Cross wash 25 lks. wide and ascend steep W. slope of
 mountain. Course S. E.
 40.00 Set a malpais stone 18 x 8 x 6 ins. 12 ins. in the ground
 for $1/4$ sec. cor. marked $1/4$ on N. face; and raise a mound
 of stone 2 ft. base $1 1/2$ ft. high N. of cor. Pits
 impracticable.
 Land, mountainous.
 Soil, rocky; 4th. rate.
 No timber.
 Mountainous land, 40.00 chains.

October 17, 1905.

October 18; At 7h. 00m. a.m., 1.m.t. I set off $32^{\circ} 51' 1/2''$
 $1/2''$ N. on the lat. arc; $9^{\circ} 26'$ S. on the dec'l. arc;
 and determine a meridian with the solar at the cor. of
 secs. 3, 4, 33 and 34 on the S. bdy. of the Tp.
 Thence I run
 N. $0^{\circ} 02' W.$ bet. secs. 33 and 34.
 Ascending over rough rolling mountains.
 16.50 Cross wash 5 lks. wide course E.
 23.90 Cross wash 8 lks. wide course N. E.
 35.00 Cross wash 10 lks. wide course S. E.
 40.00 Set a granite stone 18 x 10 x 8 ins. 12 ins. in the
 ground for $1/4$ sec. cor. marked $1/4$ on W. face; and raise
 a mound of stone 2 ft. base $1 1/2$ ft. high W. of cor.
 Pits impracticable.
 45.29 A point whence Cervera Vasco's house bears S. $26^{\circ} E.$
 23.50 chains dist.
 68.40 Cross wash 18 lks. wide course N. E.
 80.00 Point for cor. falls in wash 150 lks. wide course S. E.
 so at
 79.85 Mark a cross(x) on granite rock in place 5 x 4 x 1 ft.
 above ground on S. bank of wash for witness cor. of secs.
 27, 28, 33 and 34, marked WC with 3 grooves east of cross
 and 1 groove south of cross; and raise a mound of stone
 3 ft. base 2 ft. high 7 ft. S. W. of cor. Pits imprac-
 ticable. I could not build mound W. of cor. on account
 of steep slope where it would not have been secure.
 Land, mountainous.
 Soil, rocky; 4th. rate.

Chains.

No timber.
Mountainous land, 80.00 chains.

N. 89° 45' E. on a random line bet. secs. 27 and 34,
from true point for cor.
40.00 Set temp. $\frac{1}{4}$ sec. cor.
80.20 Intersect N. and S. line 30 lks. N. of the cor. of secs
26, 27, 34 and 35
Thence I run
S. 89° 58' W. on a true line bet. secs. 27 and 34.
Descending through dense mesquite brush.
2.65 Cross Arivaipa creek 30 lks. wide course S. W.
5.46 E. side of school house.
5.86 W. side of school house.
5.97 Cross road bears N. and S. and ascend along rough,
broken S. E. slope of mountain.
9.50 Cross wash 10 lks. wide course S. E.
30.00 Cross Wash 20 lks. wide course S. E.
38.00 Cross wash 20 lks. wide course S. E.
40.10 Set a granite stone 18 x 10 x 4 ins. 12 ins. in the
ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N. face; and raise
a mound of stone 2 ft. base 1 1/2 ft. high N. of cor.
Pits impracticable.
45.00 Cross wash 20 lks. wide course S. *Continue ascent*
80.20 The true point for cor. of secs. 27, 28, 33 and 34.
Land, mountainous and level.
Soil, sandy and rocky; 4th. rate.
Timber, a few cottonwoods along creek.
Undergrowth, mesquite and paloverde.
Mountainous land and land covered with dense undergrowth
80.20 chains.
October 18; At this cor. I set off 9° 34 1/2' \checkmark S. on the
dec'l. arc; and observe the sun on the meridian at
noon, the resulting lat. is 32° 52' N. \checkmark

From the cor. of secs. 26, 27, 34 and 35
I now run
N. 0° 01' W. bet. secs. 26 and 27
Descending through dense brush.
8.00 Over bottom land.
8.35 Cross road bears N. E. and S. W.
8.60 Cross Arivaipa creek 30 lks. wide course S. W.
9.40 Cross fence bears E. and W.
12.35 Cross fence bears N. E. and S. W. and ascehd rough
broken S. slope of mountain.
22.72 Foot of bluff 100 ft. high. It is impossible to run
further on the line so at
22.72 I mark a cross on a granite rock in place 4 x 3 x 2 ft.
17.73 above ground for exact point for witness cor. to $\frac{1}{4}$ sec.
cor. with W C $\frac{1}{4}$ on W. of cross; and raise a mound of
stone 2 ft. base 1 1/2 ft. high W. of cor. Pits imprac-
ticable.
From this witness cor. I offset ^{N 89° 45' E} east 25.00 chs. to avoid
bluffs
Thence I run N. 0° 01' W. 47.28 chains.
Thence ~~west~~ ^{S 89° 45' W} 5.00 chains.
Thence N. 0° 01' W. 10.00 chains and mark a cross (x)
on a sandstone rock in place 5 x 3 x 2 ft. above ground
for exact point for witness cor. of secs. 22, 23, 26 and
27 with 2 grooves on S. and W C and 2 grooves on E. of
cross; and raise a mound of stone 2 ft. base 1 1/2 ft.
high W. of cor. Pits impracticable.
Land, mountainous, and level.
Soil, sandy and rocky; 2nd. and 4th. rate.
Timber a few cottonwoods along Creek.
Undergrowth, mesquite and paloverde.
Mountainous land and land covered with dense undergrowth
80.00 chains.

N. 89° 45' E. on a random line bet. secs. 23 and 26
from witness cor.

Chains.

20.00

60.12

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

Intersect N. and S. line 1 lks. S. of cor. of secs. 23, 24, 25 and 26.

Thence I run S. $89^{\circ} 45'$ W. on a true line bet. secs. 23 and 26.

Descending through dense brush

0.50 Cross fence bears N. E. and S. W. and over bottom land.

2.20 Cross fence bears N. E. and S. W.

3.30 Cross Arivaipa creek 25 lks. wide course S. W.

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

7.40 Cross fence bears N. E. and S. W.

11.50 Leave bottom land and brush and ascend steep E. slope

12.45 Cross fence bears N. E. and S. W.

18.50 Cross wash 15 lks. wide course S. E. and ascend along steep rocky N. E. slope.

28.00 Top of ridge bears N. W. and S. E. and along rough broken S.W. slope of mountain.

40.00 Set a granite stone 18 x 8 x 4 ins. 12 ins. in the ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N. face; and raise a mound of stone 2 ft. base 1 $\frac{1}{2}$ ft. high N. of cor. Pits impracticable.

41.90 Cross wash 15 lks. wide course S.

42.65 Cross wash 15 lks. wide course S. E.

47.50 Cross wash 15 lks. wide course S. E.

52.70 Cross drain 10 lks. wide course S.

54.50 Cross drain 8 lks. wide course S.

58.50 Cross wash 15 lks. wide course S. E.

60.12 The witness cor., of secs. 22, 23, 26 and 27.

Land, mountainous and level.

Soil, sandy and rocky; 2nd. and 4th. rate.

Timber, a few cottonwoods along creek.

Undergrowth, mesquite and paloverde.

Mountainous land and land covered with dense undergrowth

80.12 chains.

From the cor., of secs. 13, 14, 23 and 24

I run

S. $89^{\circ} 45'$ W. bet. secs. 14 and 23.

Through dense mesquite, catclaw and paloverde.

2.90 Cross wash 40 lks. wide course N. E. and ascend steep rough E. slope of mountains.

26.40 Cross wash 10 lks. wide course E. E.

28.40 Cross same wash 10 lks. wide course N. E.

30.50 Cross same wash 10 lks. wide course S. E. *Continue ascending*40.00 Set a granite stone 18 x 10 x 4 ins. 12 ins. in the ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N. face; and raise a mound of stone 2 ft. base 1 $\frac{1}{2}$ ft. high N. of cor. Pits impracticable.

Land, mountainous and level.

soil, rocky and sandy; 4th. rate.

No timber.

Undergrowth, mesquite, catclaw and palo verde.

Mountainous land and land covered with dense undergrowth

40.00 chains.

October 18, 1905.

General Description.

This township is extremely rough and mountainous and has no timber within its boundaries. Arivaipa creek flows through the S. E. part of the township in a deep canyon and the only agricultural land is along the creek in the bottom of the canyon.

There is one settler in sec. 13, two in sec. 24 and one in sec. 34.

These lines include all the agricultural lands in the township and I therefore discontinue my survey.

John D. Heese
U. S. Deputy Surveyor.

LIST OF NAMES.

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A list of the names of the individuals employed by John F. Hesse

....., 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 subdivision lines of Tp. 6 S. Rg. 17 E.

showing the respective capacities in which they acted:

W. W. Oliver....., Chainman.

B. M. Hyde....., Chainman.

....., Moundman.

....., Moundman.

Frank Robertson....., Axman.

....., Axman.

H. S. Young....., Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted John F. Hesse

....., United States Deputy Surveyor, in surveying all those parts or portions of the the subdivision lines of Tp. 6 S. Rg. 17 E.

..... of the Gila

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.

W. W. Oliver ✓, Chainman.

B. M. Hyde ✓, Chainman.

....., Moundman.

....., Moundman.

✓ Frank Robertson, Axman.

....., Axman.

✓ H. S. Young, Flagman.

Subscribed and sworn to before me this 18th.

day of October, 1905.



John F. Hesse

U. S. Deputy Surveyor.

No notary available without great expense and loss of time

I, John F. Hesse, 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 16th day of June, 1905, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for Arizona, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of the subdivision lines of Tp. 6 S. Rg. 17 E.

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

John F. Hesse
United States Deputy Surveyor.

Subscribed by said John F. Hesse, and sworn to before me }
this 24th day of November, 1905

Frank S. Ingalls
U.S. Surveyor General for Arizona



APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Phoenix, Ar. Sept. 22nd, 1906

The foregoing field notes of the survey of the subdivisional lines of T. 6 S. R. 17 E. of the Gila and Salt River Base and Meridian, in the territory of Arizona,

executed by John F. Hesse - U.S. deputy Surveyor.
under his contract No. 135, dated June 16th, 1905, 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.

Frank S. Ingalls
United States Surveyor General.