

Book 2057

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Book "E."

2057

BOOK 2057

FIELD NOTES

RE
OF THE SURVEY OF THE

North and fractional West boundary of Tp. 22 S. Rg. 16 E.

2057

2057

2057

Of the Gila and Salt River Meridian,

Territory of Arizona

AS SURVEYED BY

John F. Hesse, United States Deputy Surveyor,

Under his Contract No. 142, dated November 10, 1906

Survey commenced July 8, 1907

Survey completed July 12, 1907

2057

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NAMES AND DUTIES OF ASSISTANTS.

BOOK 2057

A. N. Oliver Chairman

T. E. Manning Chairman

Joaquin Quiroga Axman

R. M. Smith Flagman.

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BOOK 2057

Book No. 2057

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BOOK 2057

PRELIMINARY OATHS OF ASSISTANTS.

WE, A. N. Oliver and T. E. Manning
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 ^{re} survey of **the N. and fractional W. bdys. of Tp. 22S. Rg. 16 E.**

A. N. Oliver, Chainman.
T. E. Manning, Chainman.

Subscribed and sworn to before me this 8th
day of July, 1907



John A. 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 _____



WE, I. Joaquin Quiroga and _____

do solemnly swear that we will well and truly perform the duties of axman in the establishment of corners and other duties, according to instructions given us to the best of ^{my} skill and ability, in the ^{re} survey of **the N., and fractional W. bdys. of Tp. 22 S. Rg. 16 E.**

_____, Axman.
Joaquin Quiroga, Axman.

Subscribed and sworn to before me this 8th
day of July, 1907



John A. Hesse
U.S. Deputy Surveyor

I, R. M. Smith, 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 N. and fractional W. bdys. of Tp. 22 S. Rg. 16 E.**

R. M. Smith, Flagman.

Subscribed and sworn to before me this 8th
day of July, 1907



John A. Hesse
U.S. Deputy Surveyor

Re-survey of the W. bdy. of Tp. 22S. Rg. 16 E.

Chzins.

Survey commenced July 8, 1907, 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 Tps. 21 and 22 S., Rgs. 15 and 16 E. is nearly destroyed, and is a post, badly rotted, in a small mound of stone, and witnessed by one bearing tree the marks on which are nearly obliterated. I destroy the old cor. and re-establish it in the same place as follows; Set a granite stone 18 x 14 x 6 ins. 12 ins. in the ground for cor. of Tps. 21 and 22 S. Rgs. 15 and 16 E., marked with 6 notches on each edge, from which

An oak 8 ins. diam., bears S. 48 1/4° W. 124 lks. dist. marked T22SR15ES1BT.

An oak 8 ins. diam., bears N. 77° W. 107 lks. dist. marked T21SR15ES36BT.

No other trees available. Raise a mound or stone 2 ft. base, 1 1/2 ft. high S. of cor. Pits impracticable.

At the above described cor., latitude 31° 33' 07" N. longitude 110° 41' 06" W.; I set off 31° 33' N. on the lat arc; 22° 35' N. on the dec'l. 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.

July 8, 1907.

July 9: At 12h. 26m. a.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.

At 5h. 00m. a. m., l.m.t., I lay off the azimuth of Polaris 1° 23.5' to the west, and mark the meridian thus determined, by cutting a small groove in the stone set July 8, on which the meridian coincides with the mark determined by the solar.

At 7h. 00m. a.m., l.m.t. I set off 31° 33' N. on the lat. arc; 22° 29' N. 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 of the instrument are satisfactory.

The magnetic bearing of the true meridian, at 7h. 15m. a.m., is N. 13° 21' W.; the angle thus determined gives the mean mag. dec'l. 13° 21' E.

From the township cor. above described I now run S. on a random line.

39.075 A point 113 lks. W. of the old 1/4 sec. cor.

Thence from 1/4 sec. cor. south.

40.00 The cor. of secs. 1, 6, 7 and 12.

Thence S. bet. secs. 7 and 12.

32.95 The closing cor. of secs. 7 and 12 on N. bdy. of the San Jose de Sonoita P. L. G. a granite stone 10 x 8 x 8 ins. above ground, marked and witnessed as described by the surveyor general.

From this cor. I now run,

Chains.	
	North bet. secs. 7 and 12. Over level land through scattering mesquite brush.
1.32	Cross fence bears N. E. and S. W.
2.20	Center of Southern Pacific Railroad track, bears N. E. and S. W.
3.00	Cross telegraph line bears N. E. and S. W.
3.15	Cross fence bears N. E. and S. W.
20.18	Cross road bears N. E. and S. W.
20.75	Cross fence bears N. E. and S. W.
21.50	Left bank of Sonoita Creek, dry, course S. W.
24.05	Cross fence bears N. E. and S. W.
24.15	Right bank of Sonoita Creek.
25.37	Cross fence bears N. E. and S. W. and over cultivated land
32.95	The cor. of secs. 1, 6, 7 and 12, a basalt stone 10 x 8 x 6 ins. above ground, marked and witnessed as described by the surveyor general. Land level. Soil, loamy; 1st. rate. No timber. Undergrowth, mesquite. July 9; At this cor. I set off 22° 26 1/2' N. on the dec'l. arc; and observe the sun on the meridian at noon the resulting lat. is 31° 32' N. ✓

	North bet. secs. 1 and 6. Over level cultivated land.
0.05	Cross fence bears N. W. and S. E. and leave cultivated land.
3.25	S. E. side of V. Valenzuela's house.
3.72	N. E. side of house.
5.50	Ascend over steep foothills.
6.75	Top spur bears N. W. and S. E. and along E. slope of spur descending.
24.25	Cross wash 10 lks. wide course S. E.
39.00	Over top mesa.
40.00	I destroy the old cor. and re-establish it in the same place as follows; Set a Tufa stone 18 x 6 x 5 ins. 12 ins. in the ground for. 1/4 sec. cor. marked 106 on W. face; and raise a mound of stone 2 ft. base, 1 1/2 ft. high W. of cor. Pits impracticable. Thence from 1/4 sec. cor. N. 1° 39' W. ✓
53.00	Cross wash in ravine 10 lks. wide course S. W.
60.00	Cross wash in ravine 10 lks. wide course S. E.
69.75	Cross wash in ravine 10 lks. wide course S. E.
79.07	The cor. of Tps. 21 and 22 S. Rgs. 15 and 16 E. previously described. Land, level and mountainous. Soil, loamy and stony, 1st. and 3rd. rate. No timber excepting a very few scattering oaks. Underbrush, mesquite. Mountainous land, 73.57 chs.

July 9, 1907.

Re-survey of the N. bdy. of Tp. 22 S. Rg. 16 E.

Chains.

- July 10; At 7h. 00m. a.m., l.m.t. I set off $31^{\circ} 33' N.$ on the lat arc; $22^{\circ} 22' N.$ on the dec'l. arc; and determine a meridian with the solar at the cor. of Tps. 21 and 22 S. Rgs. 15 and 16 E. previously described, Thence I run
- East bet. secs 6 and 31.
Over top of ridge.
- 4.00 Descend.
9.25 Cross wash 10 lks. wide course S. E. and ascend.
13.00 Top ridge bears N. W. and S. E. and descend.
21.00 Cross wash 10 lks. wide course S. E. and ascend.
29.00 Ridge bears N. W. and S. E. and descend.
34.75 Cross wash 10 lks. wide course S. E. and ascend.
36.00 Ridge bears N. W. and S. E. and descend.
36.84 Cross road bears N. W. and S. E.
38.61 A point 10 lks. S. of the remains of the old $\frac{1}{4}$ sec. cor. I destroy all traces of the old cor. and re-establish it in the same place as follows: Set a granite stone 18 x 12 x 3 ins. 12 ins. in the ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N. face; from which
- An oak 8 ins. diam., bears N. $22\frac{1}{4}^{\circ}$ E. 155 lks. dist. marked $\frac{1}{4}$ S31BT.
An oak 8 ins. diam. bears S. 65° E. 148 lks. dist., marked $\frac{1}{4}$ S6BT.
- The course of this line is N. $89^{\circ} 51'$ E. 38.61 chs.
Thence from $\frac{1}{4}$ sec. cor. East.
- Descend.
- 19.05 Cross road bears N. and S.
19.40 Cross wash 20 lks. wide course S. and ascend.
15.60 Ridge bears N. and S. and descend.
20.60 Cross wash 20 lks. wide course S. and ascend.
28.50 Ridge bears N. E. and S. W. and descend.
34.00 Cross wash 10 lks. wide course S. W. and ascend.
40.00 Top high ridge. A point 9 lks. S. of the old cor. a post in a mound of stone marked XXXI on one face, the other marks have rotted away. I destroy the old cor. and re-establish it in the same place as follows; Set a granite stone 18 x 6 x 5 ins. 12 ins. in the ground for cor. of secs. 5, 6, 31 and 32, marked with 5 notches on E. and 2 notch on W. edges; and raise a mound of stone 2 ft. base, 1 1/2 ft. high, W. of cor. Pits impracticable
The course of this half mile is N. $89^{\circ} 52'$ E. 40.00 chs.
Land, mountainous.
Soil, stony; 3rd. rate.
Timber, a very few scattering oaks.
- July 10; At this cor. I set off $22^{\circ} 19 \frac{1}{2}' N.$ on the dec'l. arc; and observe the sun on the meridian at noon, the resulting lat. is $31^{\circ} 33' N.$
-
- East bet. secs. 5 and 32.
Descend.
- 4.90 Cross wash 10 lks. wide course S. and ascend.
6.50 Ridge bears N. and S. and descend.
9.00 Cross wash 6 lks. wide course S. E. and ascend.
12.80 Ridge bears N. W. and S. E. and descend.
21.00 Enter valley and over level land.
32.21 Cross road bears N. E. and S. W.
32.55 Cross fence bears N. E. and S. W.
32.68 Cross telegraph line bears N. E. and S. W.
33.38 Cross Southern Pacific Railroad track bears N. E. and S. W.
34.13 Cross fence bears N. E. and S. W.
34.85 Cross fence bears N. E. and S. W.
40.00 I am unable to find any trace of the $\frac{1}{4}$ sec. cor. so I continue my line east as a random line and at 79.64 chs. fall 28 lks. S. of the old sec. cor. I return to my 40.00 chn. point. and run W. 18 lks. and N. 14 lks. and at
- 39.82 Set a granite stone 24 x 12 x 12 ins. 18 ins. in the ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N. face; dig pits 18 x 18 x 12 ins. E. and W. of stone 3 ft. dist., and raise a mound of earth 3 1/2 ft. base 1 1/2 ft. high N. of cor.

Chains.

The course of this half mile is N. 89° 48' E. 39.82 chs.
 Thence from $\frac{1}{4}$ sec. cor. I run
 N. 89° 48' E.
 0.85 Right bank of Sonoita Creek, dry, course S.
 3.14 Left bank of Sonoita Creek.
 6.20 Cross wash 100 lks. wide course S. W.
 14.25 Leave valley and ascend.
 16.50 Top and over mesa.
 20.25 Cross wash 10 lks. wide in ravine course S. W.
 39.82 The old cor. I destroy the old cor. and re-establish it
 in the same place as follows; set a granite stone 20 x 10
 x 10 ins. 15 ins. in the ground for cor. of secs. 4, 5,
 32 and 33, marked with 4 notches on E. and 2 notches on
 W. edges; and raise a mound of stone 2 ft. base 1 1/2 ft.
 high W. of cor. Pits impracticable.
 Land, mountainous and level.
 Soil, loamy and stony; 1st. and 3rd. rate.
 No timber.
 Mountainous land, 44.39 chs.

July 10, 1907.

July 11; At 7h. 00m. a.m., 1.m.t., I set off 31° 33' N. ✓
 on the lat. arc; 22° 14 1/2' ✓ N. on the dec'l. arc; and
 determine a meridian with the solar at the cor. of secs.
 4, 5, 32 and 33,

Thence I run

East bet. secs. 4 and 33

Descending.

0.01 Cross fence bears N. and S. W.
 1.00 Cross gully 4 lks. wide course S. W. and ascend.
 12.50 Top ridge bears N. and S. and descend.
 21.00 Cross wash 10 lks. wide course S. W. and ascend.
 24.00 Ridge bears N. E. and S. W. and descend.
 35.75 Cross wash 40 lks. wide course S. and ascend.
 40.00 A point 20 lks. S. of the old $\frac{1}{4}$ sec. cor. a post in a
 mound of stone and marked $\frac{1}{4}$ S on N. face; I destroy the
 old cor. and re-establish it in the same place as follows
 set a granite stone 18 x 14 x 6 ins. 12 ins. in the
 ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N. face; from which
 An oak 8 ins. diam., bears S. 56° W. 49 lks.
 dist., marked $\frac{1}{4}$ S4BT.
 A juniper 18 ins. diam., bears N. 85° E. 73 lks.
 dist., marked $\frac{1}{4}$ S33BT.
 The course of this half mile is N. 89° 43' E. 40.00chs.
 Thence from $\frac{1}{4}$ sec. cor. east.
 Ascend.
 47.00 On top ridge bears N. and S.
 53.00 Descend.
 25.50 Cross wash 10 lks. wide course S. in ravine.
 39.70 A point 33 lks. S. of the old cor. I destroy the old cor.
 and re-establish it in the same place as follows; Set a
 granite stone 24 x 16 x 8 ins. 18 ins. in the ground
 for cor. of secs. 33 and 34, marked with 3 notches on
 E. and W. edges; from which
 An oak 12 ins. diam., bears N. 76 1/2° E. 108 lks.
 dist., marked T21SR16ES34BT.
 An oak 6 ins. diam., bears N. 63 1/4° W. 145 lks.
 dist., marked T21SR16ES33BT.
 The course of this half mile is N. 89° 32' E. 39.70 chs.
 Land, mountainous.
 Soil, stony, 3rd. rate.
 Timber, a few oaks.
 July 11; at this cor. I set off 22° 12' N. on the dec'l.
 arc; and observe the sun on the meridian at noon, the
 resulting lat. is 31° 33' N. ✓

As the line from here east has no subdivision lines
 closed on the N. side of it and is subject to rectifica-
 tion, therefore from the cor. of secs. 33 and 34 just
 established I run East on a random line destroying the
 old

Re-survey of the N. bdy. of Tp. 22 S. Rg. 16 E.

chains.

old cors. whenever found and at 239.25 chs. fall 3 lks. S of the old cor. of Tp. 21 S. Rg 16 E. which is a porphyry stone marked and witnessed as described by the surveyor general.

Thence I run

West bet. secs. 1 and 36

Ascend.

- 7.50 Top of mountain bears N. W. and S. E. and descend.
 26.00 The closing cor. of Tps. 22 S. Rgs. 16 and 17 E. a stone marked and witnessed as described by the surveyor general
 33.75 Ridge bears N. W. and S. E. and descend.
 40.00 Set a granite stone 18 x 16 x 12 ins. 12 ins. in the ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N. face; from which
 An oak 10 ins. diam., bears N. $69\frac{1}{2}^{\circ}$ E. 162 lks dist., marked $\frac{1}{4}$ S36BT.
 An oak 14 ins. diam., bears S. $62\frac{1}{2}^{\circ}$ E. 54 lks. dist., marked $\frac{1}{4}$ S1BT.
 62.60 Cross wash 8 lks. wide course S. W.
 66.75 Cross same wash course N. W.
 72.75 Cross wash 8 lks. wide course N. W.
 75.75 Cross wash 8 lks. wide course N. W.
 77.75 Cross wash 50 lks. wide course S. W.
 80.00 Set a granite stone 20 x 12 x 6 ins. 15 ins. in the ground for cor. of secs. 1, 2, 35 and 36, marked with 1 notch on E. and 5 notches on W. edges; from which
 An oak 6 ins. diam., bears N. $4\frac{1}{2}^{\circ}$ E. 99 lks. dist., marked T21SR16ES36BT
 An oak 8 ins. diam., bears S. 70° E. 45 lks. dist. marked T22SR16ES1BT.
 An oak 4 ins. diam., bears S. 79° W. 139 lks. dist., marked T22SR16ES2BT.
 An oak 10 ins. diam., bears N. 76° W. 139 lks. dist., marked T21SR16ES35BT.
- Land, mountainous.
 Soil, rocky; 4th. rate.
 Timber, scattering oaks.
 Mountainous land, 80.00 chains.

July 11, 1907.

July 12; At 7h. 00m. a.m., l.m.t., I set off $31^{\circ} 33'$ N. on the lat arc; $22^{\circ} 06\frac{1}{2}'$ N. on the dec'l. arc; and determine a meridian with the solar at the cor. of secs. 1, 2, 35 and 36.

Thence I run

West bet. secs. 2 and 35.

Over rolling mountainous land through oak timber.

- 5.50 Cross wash 50 lks. wide course N. W.
 23.50 Cross wash 30 lks. wide course S.
 34.75 Cross wash 10 lks. wide course S.
 39.75 Cross wash 10 lks. wide course S.
 40.00 Set a malpais stone 20 x 8 x 6 ins. 15 ins. in the ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N. face; from which
 An oak 8 ins. diam., bears N. 59° E. 154 lks. dist., marked $\frac{1}{4}$ S35BT.
 An oak 12 ins. diam., bears N. $18\frac{1}{2}^{\circ}$ W. 92 lks. dist., marked $\frac{1}{4}$ S35BT
 50.15 Cross wash 6 lks. wide course S. W.
 52.24 Cross wash 10 lks. wide course S.
 60.75 Cross wash 30 lks. wide course S. W.
 79.80 Cross wash 10 lks. wide course S.
 80.00 Set a granite stone 20 x 10 x 6 ins. 15 ins. in the ground for cor. of secs. 34 and 35, marked with 2 notches on E. and 4 notches on W. edges; from which
 An oak 12 ins. diam., bears N. $83\frac{1}{2}^{\circ}$ E. 96 lks. dist., marked T21SR16ES35BT.
 An oak 4 ins. diam., bears N. $54\frac{1}{4}^{\circ}$ W. 115 lks dist., marked T21SR16ES34BT.
- Land, mountainous.
 Soil, rocky; 4th. rate.
 Timber, oak.
 Mountainous land 80.00 chs.

BOOK 2057

Resurvey of the N. bdy. of Tp. 22 S. Rg 16 E.

chains

July 12; At this cor. I set off $22^{\circ} 04' N.$ on the dec'l. arc; and observe the sun on the meridian at noon; the resulting lat. is $31^{\circ} 33' N.$

- West bet. secs. 3 and 34.
 Ascending through scattering oak timber.
- 12.25 Top of hill and descend
 - 21.45 Cross wash 15 lks. wide course S. W.
 - 33.55 Cross Creek 8 lks. wide course N. W.
 - 37.10 Cross Creek 8 lks. wide course S. W. and ascend.
 - 40.00 Set a malpais stone 18 x 10 x 6 ins. 12 ins. in the ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face; from which
 - An oak 4 ins. diam., bears N. $23^{\circ} E.$ 40 lks. dist., marked $\frac{1}{4}S34BT.$
 - An oak 12 ins. diam., bears N. $24^{\circ} 17' 2'' E.$ 104 lks. dist marked $\frac{1}{4}S34BT.$
 - 43.95 Cross wash 10 lks. wide course S.
 - 63.25 Cross wash 15 lks. wide course S.
 - 75.00 Cross wash course S. 10 lks. wide .
 - 78.50 Cross wash 10 lks. wide course S. and ascend.
 - 79.25 The cor. of secs. 33 and 34, previously described.
 - Land, mountainous.
 - Soil, rocky; 4th. rate.
 - Timber, oak.
 - Mountainous land, 79.25 chs.

July 12, 1907.

John F. Hesse
 U.S. Deputy Surveyor

LIST OF NAMES.

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 ^{re} survey of the N. and fractional W. bdys. of Tp 22S. Rg. 16 E. showing the respective capacities in which they acted:

A. N. Oliver , *Chainman.*

T. E. Manning , *Chainman.*

..... , *Moundman.*

..... , *Moundman.*

Joaquin Quiroga , *Arman.*

..... , *Arman.*

R. M. Smith , *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted John F. Hesse

....., United States Deputy Surveyor, in ^{re} surveying all those parts or portions of the N. and fractional W. bdys. of Tp. 22 S. Rg. 16 E.

..... of the Gila and

Salt River meridian, Territory of Arizona

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

A. N. Oliver , *Chainman.*

T. E. Manning , *Chainman.*

..... , *Moundman.*

..... , *Moundman.*

Joaquin Quiroga , *Arman.*

..... , *Arman.*

R. M. Smith , *Flagman.*

Subscribed and sworn to before me this 25th day of July, 1907



John F. Hesse
U. S. Deputy Surveyor

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BOOK 2057

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

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 10th day of November, 1906, 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 N. and fractional W. bdys. of Tp. 22 S. Rg. 16 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 8 day of August, 1907



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

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Phoenix AT Dec. 16, 1907

The foregoing field notes of the survey of the North and West bdys. of T. 22 S. R. 16 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. 142, dated November 10, 1906, 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 _____, has been correctly copied from the original notes on file in this office.

United States Surveyor General.