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Book A.

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BOOK 2207

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Accepted Letter E.  
Aug. 10 - 1911

# FIELD NOTES

*& retracement*

OF THE SURVEY OF THE

*East boundary of Twp. 8 N. Rg. 5 W.*

2207

Of the *Gila and Salt River* Meridian,

*Territory of Arizona*

AS SURVEYED BY

*John P. Hesse*, United States Deputy Surveyor,

Under his Contract No. *158*, dated *June 4, 1909*, 189

Survey commenced *August 12, 1909*, 189

Survey completed *August 15, 1909*, 189

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NAMES AND DUTIES OF ASSISTANTS.

Fred Keel

C. Linneman

Fred W. Rodolf

C. Kaufman

Quinn

F. W. DeWaller

Maguire

85  
13

BOOK 2207

INDEX DIAGRAM.

Township 8 N., Range 5 W.

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BOOK 2207

PRELIMINARY OATHS OF ASSISTANTS.

WE, Fred Kessel and Fred W. Rodolff  
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 the East boundary of Tp. 8 N. Rg. 5 W.

Fred Kessel, Chainman.  
Fred W. Rodolff, Chainman.

Subscribed and sworn to before me this 12<sup>th</sup>  
day of August 1909, 189



J. P. Nessel  
U.S. Dep. 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 \_\_\_\_\_, 189



WE, J. C. Kaufman 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 survey of the East boundary of Tp. 8 N. Rg. 5 W.

J. C. Kaufman, Axman.  
\_\_\_\_\_, Axman.

Subscribed and sworn to before me this 12<sup>th</sup>  
day of August 1909, 189



John P. Nessel  
U.S. Dep. Surveyor

I, F. W. Schwalme, 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 East boundary of Tp. 8 N. Rg. 5 W.

F. W. Schwalme, Flagman.

Subscribed and sworn to before me this 12<sup>th</sup>  
day of August 1909, 189



John P. Nessel  
U.S. Dep. Surveyor

No notary available without loss of time and great expense

East boundary of Tps. 8.N. Rgs. 5.W.

Chains.

Survey commenced August 12, 1909, 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. 7 and 8 N., Rgs. 4 and 5 W.; latitude 33° 59' 08" N., longitude 112° 43' 29" W.: I set off 33° 59' N. on the lat. arc; 14° 59' N. on the decl. 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 my station.

At 10h. 08m. 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.

August 12, 1909.

August 13: At 6h. 00m. a.m., l.m.t., I lay off the azimuth of Polaris, 1° 25' to the west, and mark the meridian thus determined, by cutting a small groove in the stone set August 12, on which the meridian agrees with the mark determined by the solar.

At 7h. 00m. a.m., l.m.t., I set off 33° 59' N. on the lat. arc; 14° 47½' N. on the decl. arc; and mark a point in the meridian determined with the solar, by a cross on the stone already set 5 chs. N. of my station; this mark coincides with the meridian established by the Polaris 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 observations; 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. 14° 30' W.; the angle thus determined gives the mag. decl. 14° 30' E.

The cor. of Tps. 7 and 8 N. Rgs. 4 and 5 W. is a stone poorly set and marked, witnessed as described by the surveyor general, I destroy the old cor. and reestablish it in the same place as follows; set a limestone 20 x 16 x 8 ins. 15 ins. in the ground, for cor. of Tps. 7 and 8 N. Rgs. 4 and 5 W. marked with 6 notches on each edge; from which

*No other trees available.* A paloverde 5 ins. diam., bears S. 12½° W. 126 lks. dist.; marked T7NR5WS1BT.

*Raise a mound of stone 2 ft. base 1½ ft. high S. of cor. Also impracticable.* A paloverde 5 ins. diam., bears N. 6¾° W. 101 lks. dist.; marked T8NR5WS36BT.

Thence I run North on a random line, along the E. bdy. of Tp. 8 N. Rg. 5 W. setting temp. ¼ sec. and sec. cors. at intervals of 40.00 chs.; and, at 320.00 chs., fall 47 lks. W. of the cor. of secs. 7, 12, 13 and 18, which is a malpais stone 12 x 10 x 5 ins. above ground, marked and witnessed as described by the surveyor general. The falling answers to a correction of 0° 05', or 11 2/3 lks. E. per mile counting from the S. E. cor. of Tp. 8 N. Rg. 5 W.

East boundary of Tp. 8 N. Rg. 5 W.

chains.

August 13, 1909.

August 14; At 7h. 00m. am. l.m.t., I set off 33° 59' N. on the lat. arc; 14° 29' N. on the decl. arc; and determine a meridian with the solar, at the cor. of Tps. 7 and 8 N. Rgs. 4 and 5 W.

Thence I run N. 0° 05' E. bet. secs. 31 and 36, marking and blazing true line.

Descending through dense brush and scattering paloverde

- 4.00 Cross drain 5 lks. wide course S. W. and ascend.
  - 10.00 Ridge bears N. E. and S. W. and descend
  - 16.25 Cross wash 30 lks. wide course W. and ascend.
  - 18.00 Ridge bears NE. and SW. and descend.
  - 19.50 Cross wash 20 lks. wide course SW. and ascend.
  - 23.00 Ridge bears E. and W. and descend.
  - 29.50 Cross wash 30 lks. wide course SW. and ascend.
  - 34.75 Ridge bears E. and W. and descend.
  - 36.50 Wash 40 lks. wide course SW and along W. side of wash course SW.
  - 40.00 Point for  $\frac{1}{4}$  sec. cor. falls in wash
  - 40.70 Leave wash and ascend.
  - 41.00 Set a granite stone 18 x 7 x 5 ins. 12 ins. in the ground for witness  $\frac{1}{4}$  sec. cor., marked WC $\frac{1}{4}$  on W. face; and raise a mound of stone 2 ft. base 1 $\frac{1}{2}$  ft. high, W. of cor. Pits impracticable.
  - 45.60 Cross drain course W.
  - 55.00 Ridge bears E. and W. Descend steep N. slope.
  - 61.00 Cross wash 100 lks. wide course W. and ascend.
  - 70.00 Ridge bears E. and W. and descend.
  - 78.00 Cross wash 20 lks. wide course S. W. and ascend.
  - 80.00 Set a granite stone 18 x 10 x 6 ins. 12 ins. in the ground for cor. of secs. 25, 30, 31 and 36, marked with 1 notch on S. and 5 notches on N. edges; from which  
A paloverde 6 ins. diam., bears S. 2° E. 102 lks. dist., marked T8NR4WS31BT
- No other trees available. Raise a mound of stone 2 ft. base 1 $\frac{1}{2}$  ft. high W. of cor. Pits impracticable.  
Land, mountainous and broken.  
Soil, rocky ; 4th. rate.  
Timber, paloverde  
Undergrowth, mesquite, greasewood, paloverde, catclaw.  
Mountainous land and land covered with dense undergrowth exceptionally difficult to survey 80.00 chs.

N. 0° 05' E. bet. secs. 25 and 30

- 9.00 Ascending steep slope through dense brush.
- 14.00 Ridge bears E. and W. and descend.
- 18.50 Cross wash 25 lks. wide course W.
- 27.00 Cross wash 30 lks. wide course W. and ascend.
- 35.00 Cross ridge bears E. and W. and descend.
- 38.00 Cross wash 25 lks. wide course W. and ascend.
- 40.00 Ridge bears E. and W. and descend.
- 41.50 Set a granite stone 18 x 8 x 5 ins. 12 ins. in the ground for  $\frac{1}{4}$  sec. cor., marked  $\frac{1}{4}$  on W. face; from which  
A paloverde 6 ins. diam., bears N. 77 $\frac{1}{2}$ ° E. 73 lks. dist., marked  $\frac{1}{4}$ S30BT.  
A paloverde 5 ins. diam., bears S. 62 $\frac{1}{2}$ ° W. 65 lks. dist., marked  $\frac{1}{4}$ S25BT.
- 45.00 Cross wash 30 lks. wide course W. and ascend.
- 53.60 Ridge bears E. and W. descend.
- 56.00 Cross wash 10 lks. wide course W. and ascend.
- 63.45 Ridge bears E. and W. and descend.  
Cross wash 40 lks. wide course W.

## East boundary of Tp. 8 N. Rg. 5 W.

Chains.  
 66.00 Ridge bears E. and W. and descend.  
 70.00 Cross drain 5 lks. wide course S. W. and ascend.  
 78.00 Cross ridge bears E. and W. and descend.  
 80.00 Set a granite stone 18 x 8 x 8 ins. 12 ins. in the ground for cor. of secs. 19, 24, 25 and 30, marked with 2 notches on S. and 4 notches on N. edges; from which  
 A paloverde 6 ins. diam., bears S. 40° W. 64 lks. dist., marked T8NR5WS25BT.  
 No other trees available. Raise a mound of stone 2 ft. base 1½ ft. high, W. of cor. Pits impracticable.  
 Land, mountainous.  
 Soil, rocky; 4th. rate.  
 Timber, paloverde.  
 Undergrowth, mesquite, greasewood, paloverde and cactus.  
 Mountainous land and land covered with dense undergrowth  
 80.00 chs.  
 August 14 At this cor. I set off 14° 24½' N. on the decl arc: and observe the sun on the meridian at noon, the resulting lat. is 34° 01' N. ✓

N. 0° 05' E. bet. secs. 19 and 24  
 Descending steep slope through dense underbrush.  
 1.50 Cross wash 30 lks. wide course W. and ascend.  
 2.30 Cross ridge bears E. and W. and descend.  
 3.10 Cross wash 60 lks. wide course W.  
 3.70 Same wash course S.E..  
 4.50 Cross same wash course S. W. and ascend.  
 11.00 Ridge bears E. and W. and descend.  
 16.00 Cross wash 25 lks. wide course N. W. and ascend.  
 33.00 Along On top ridge bears N. W. and S. E.  
 40.00 Set a granite stone 18 x 8 x 6 ins. 12 ins. in the ground for ¼ sec. cor., marked ¼ on W. face; and raise a mound of stone 2 ft, base 1½ ft. high W. of cor. Pits impracticable.  
 Thence descend.  
 58.00 Cross drain 10 lks. wide course W. and ascend.  
 63.50 Ridge bears E. and W. and descend.  
 67.60 Cross wash 20 lks. wide course S. W. and ascend steep slope.  
 75.00 Intersect E. side line Alma Mining Claim, Sur. No. 1587A at S. 34° W. 1.07 chs. from cor.No.1 of claim.  
 76.30 Intersect N. end line of Alma also S. end line of May Sur. No. 1587 A. at N. 56° W. 73 lks. from cor. No. 1 of claims.  
 80.00 Set a granite stone 18 x 8 x 6 ins. 12 ins. in the ground for cor. of secs. 13, 18, 19 and 24, marked with 3 notches on N. and S. edges; and raise a mound of stone 2 ft. base 1½ ft. high, W. of cor. Pits impracticable.  
 Land, Mountainous.  
 Soil, rocky; 4th rate.  
 No timber.  
 Undergrowth, mesquite greasewood and paloverde.  
 Mountainous land and land covered with dense undergrowth  
 80.00 chs.

August 14, 1909.

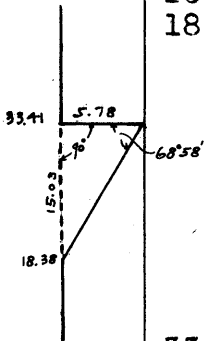
August 15; At 7h. 00m., a.m., l.m.t., I set off 34° 01½' N. on the lat. arc; 14° 10½' N. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 13, 18, 19 and 24,

Thence I run

N. 0° 05' E. bet. secs. 13 and 18  
 Ascending steep slope through dense brush.  
 7.91 Intersect line bet. Frenchman and May claims, Sur. No. 1587A at 9.80 chs. N. 45° E. of cor. No. 6 of May and

East boundary of Tp. 8 N. Rb 5 W.

Chains	cor. No. 1 of Frenchman.
15.30	Ridge bears N. W. and S. E. and descend steep slope.
22.89	Intersect W. side line of Frenchman claim at .44 chs. S. 37° W. of cor. No. 4 of Frenchman claim, Sur. No. 1587A.
34.50	Cross wash 25 lks. wide course N. W. and ascend steep slope.
35.00	Cross power transmission line from Wickenburg to Octave bears N. E. and S. W.
40.00	Set a malpais stone 18 x 8 x 7 ins. 12 ins. in the ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
41.60	Ridge bears E. and W. and descend.
53.00	Cross telephone line bears N. E. and S. W.
63.00	Cross pipe line to Ore Grande Mine bears N. E. and S. W.
65.00	Cross wash 25 lks. wide course N. W.
80.00	Top of ridge bears S. E. and N. W. The cor. of secs. 7, 12, 13 and 18 previously described. Land, mountainous. Soil, rocky 4th. rate. No timber. Undergrowth, greasewood, mesquite and paloverde. Mountainous land and land covered with dense undergrowth 80.00 chs.
39.90	North on a random line bet. secs. 7 and 12 Fall 32 lks. E. of $\frac{1}{4}$ sec. cor. I return to the cor. of secs. 7, 12, 13, and 18, and run thence N. 0° 27' W. bet. secs. 7 and 12 Descending steep slope through dense brush.
16.75	Cross drain 5 lks. wide course NW.
18.38	The line from here crosses box canyon of the Hassayampa river impossible to chain across, therefore to determine distance across at this point (18.38) I set a flag and call it A, and set my flagman on line N. 0° 27' W. across the canyon, I then cross the canyon and measure off a base N. 89° 33' E. 5.78 chs. from my flagman, to a point, from which the flag at my 18.38 chn. point bears S. 20° 35' W.; therefore, the dist. is $\tan. 68^{\circ}58' \times$ base, or $2.6005 \times 5.78 = 15.03$ chs.; making the whole distance from cor. of secs. 7, 12, 13 and 18, 33.41 chs.
33.41	Ridge bears E. and W. and descend.
37.75	Cross drain 5 lks. wide course S. E. and ascend.
39.90	The old $\frac{1}{4}$ sec. cor. which I destroy and reestablish in the same place as follows; 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 W. face; and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable. Thence from $\frac{1}{4}$ sec. cor. I run North on a random line
39.98	Fall 5 lks. W. of cor. of secs. 1, 6, 7, and 12. I return to the $\frac{1}{4}$ sec. cor. bet. secs. 7 and 12 and run thence N. 0° 64' E.
2.50	Ridge bears E. and W. and descend.
6.00	Cross drain 5 lks. wide course E. and ascend steep slope.
11.50	Ridge bears N. E. and S. W. and descend.
35.75	Cross drain 8 lks. wide course W. and ascend.
39.98	The old cor. which I destroy and reestablish in the same place as follows; Set a malpais stone 18 x 12 x 6 ins. 12 ins. in the ground for cor. of secs. 1, 6, 7 and 12, marked with 5 notches on S. and 1 notch on N. edges; and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high W. of cor. Pits impracticable. Land, mountainous. Soil, rocky; 4th. rate. No timber.





## East boundary of Tp. 8 N. Rg. 5 W.

Chains.	Undergrowth, greasewood, mesquite and palo verde. Mountainous land and land covered with dense undergrowth 79.88 chs. August 15: At this cor. I set off $14^{\circ} 05\frac{1}{2}'$ N. on the decl. arc; and observe the sun on the meridian at noon, the resulting lat. is $34^{\circ} 03\frac{1}{2}'$ N.
-----	
11.00	North bet. secs. 1 and 6. Ascend over broken land through dense brush
40.00	Cross wash 30 lks. wide course S. W. Set a granite stone 18 x 14 x 10 ins. 12 ins. in the ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high W. of cor. pits impracticable.
45.50	Cross wash 25 lks. wide course S. W.
55.75	Cross wash 25 lks. wide course S. E.
71.46	Set a malpais stone 24 x 12 x 8 ins. 18 ins. in the ground for witness cor. to closing cor. of Tps. 8 N. Rgs. 4 and 5 W., marked W C C C on S., with 6 grooves on S., E., and W. faces; form which A paloverde 5 ins. diam., bears S. $25\frac{1}{4}^{\circ}$ E. 56 lks. dist., marked WCCCT8NR4WS6BT, A paloverde 5 ins. diam., bears S. $20\frac{1}{2}^{\circ}$ W. 129 lks. dist., marked WCCCT8NR5WS1BT.
72.96	Wash 15 lks. wide course S. W. Intersect Second Standard Parallel North 2.11 chs. S. $89^{\circ} 52'$ W. of the standard cor. of Tps. 8 N. Rgs. 4 and 5 W. Land, mountainous. Soil, stony; 4th. rate. No timber. Undergrowth, mesquite, greasewood and palo verde. Mountainous land, and land covered with dense undergrowth 72.96 chs.

August 15, 1909.

GENERAL DESCRIPTION.

This township is rough and mountainous along its eastern boundary, rolling in the N. W. and mountainous and broken in the interior. The land along the Hassayampa River, which runs through the eastern part of the township, is very fertile.

*John A. Hesse*  
U. S. Dep. Surveyor

East boundary of Tp. 8 N. Rg. 5 W.

Chains.

Boundaries of Tp. 8 N. Rg. 5 W.  
Latitudes, departures, and closing errors.

Line Designated	True bearing	Distance	Latitudes		Departures	
			N.	S	E	W
S. bdy. T8NR5W.	N89°58'W	480.48	.28			480.48
W. bdy T. 8 N. R 5 W.	N 0°01'E	400.20	400.20		.12	
	North	72.34	72.34			
2d. Standard Paralle   N.	East	1.87				1.87
6 & 36	N89°50'E	40.02	.12		40.02	
S. bdy. sec. 31	S 89°52'E	40.12		.09	40.12	
S. bdy. sec. 32	N.89°46'E	40.27	.16		40.27	
	S.89°34'E	39.77		.30	39.77	
S. bdy. sec. 33	N.89°56'E	40.45	.05		40.45	
	N.89°45'E	39.98	.17		39.98	
S. bdy. sec. 34	N.89°52'E	39.93	.09		39.93	
	N.89°40'E	39.90	.23		39.90	
S. bdy. sec. 35	S.89°48'E	39.90		.14	39.90	
	N.89°34'E	40.20	.30		40.20	
S. bdy. sec. 36	N.89°50'E	39.80	.12		39.80	
	N.89°52'E	37.99	.09		37.99	
East bdy. T8NR5W. 1 & 6	South	72.96		72.96		
7 & 12	S.0°04'N.	39.98		39.98		.03
	S.0°27'E	39.90		39.90	.31	
	S.0°05'N.	320.00		320.00		.47
Convergency					.49	
Totals.			474.15	473.37	481.12	481.00
			473.37		481.12	
Error in lat.			.78 Error in dep.			

*John F. Nessel*  
U.S. Deputy Surveyor.

LIST OF NAMES.

A list of the names of the individuals employed by John P. 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 East boundary of Tp. 8 N. Rg. 5 W.

showing the respective capacities in which they acted:

Fred Kest ..... Chainman.

Fred W. Rodolf ..... Chainman.

..... Moundman.

..... Moundman.

C. Kaufman ..... Axman.

..... Axman.

F. W. Schwalbe ..... Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted John P. Hesse

....., United States Deputy Surveyor, in surveying all those parts or portions of the East boundary of Tp. 8 N. Rg. 5 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

Fred Kest ..... Chainman.

Fred W. Rodolf ..... Chainman.

..... Moundman.

..... Moundman.

C. Kaufman ..... Axman.

..... Axman.

F. W. Schwalbe ..... Flagman.

Subscribed and sworn to before me this 12<sup>th</sup> day of September 1909, 189



John P. Hesse  
U.S. Dep. Surveyor

No notary available without loss of time and great expense

94 8  
BOOK 2207

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, John P. 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 4<sup>th</sup> day of June 1909, 189, 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 East boundary of Sp. S. N. R. 5 W.

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; 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.

John P. Hesse  
United States Deputy Surveyor.

Subscribed by said John P. Hesse, and sworn to before me }  
this ninth day of May 1910, 189

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



APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Phoenix Ariz June 17, 189/1910.

The foregoing field notes of the survey of the East Boundary of Sp. S. N. R. 5 W. Gila and Salt River Base and Meridian, Arizona

executed by John P. Hesse, U.S. Deputy Surveyor under his contract No. 158, dated June 4-1909, 189, 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.