

Standard  
**BOOK "K"**

2517

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FIELD NOTES

BOOK 2517

OF THE SURVEY OF THE

Seventh Standard Parallel North, through  
Range 14 East  
and part of Range 13 East

of the Gila and Salt River Base and Meridian,

in the Territory of Arizona

EXECUTED  
AS SURVEYED BY

Sidney E. Blodh, United States <sup>Examiner of Surveys</sup> ~~Deputy Surveyor~~,

Special Instructions from the Commissioner of the General Land Office

Under this Contract No. 1, dated Oct. 2<sup>nd</sup> 1907, and May 15<sup>th</sup> 1908

Survey commenced January 11<sup>th</sup>, 1910

Survey completed January 11<sup>th</sup>, 1910

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NAMES AND DUTIES OF ASSISTANTS.

Van L. White                      Comptroller

Fred L. Warner and Earl Albright                      Chairmen

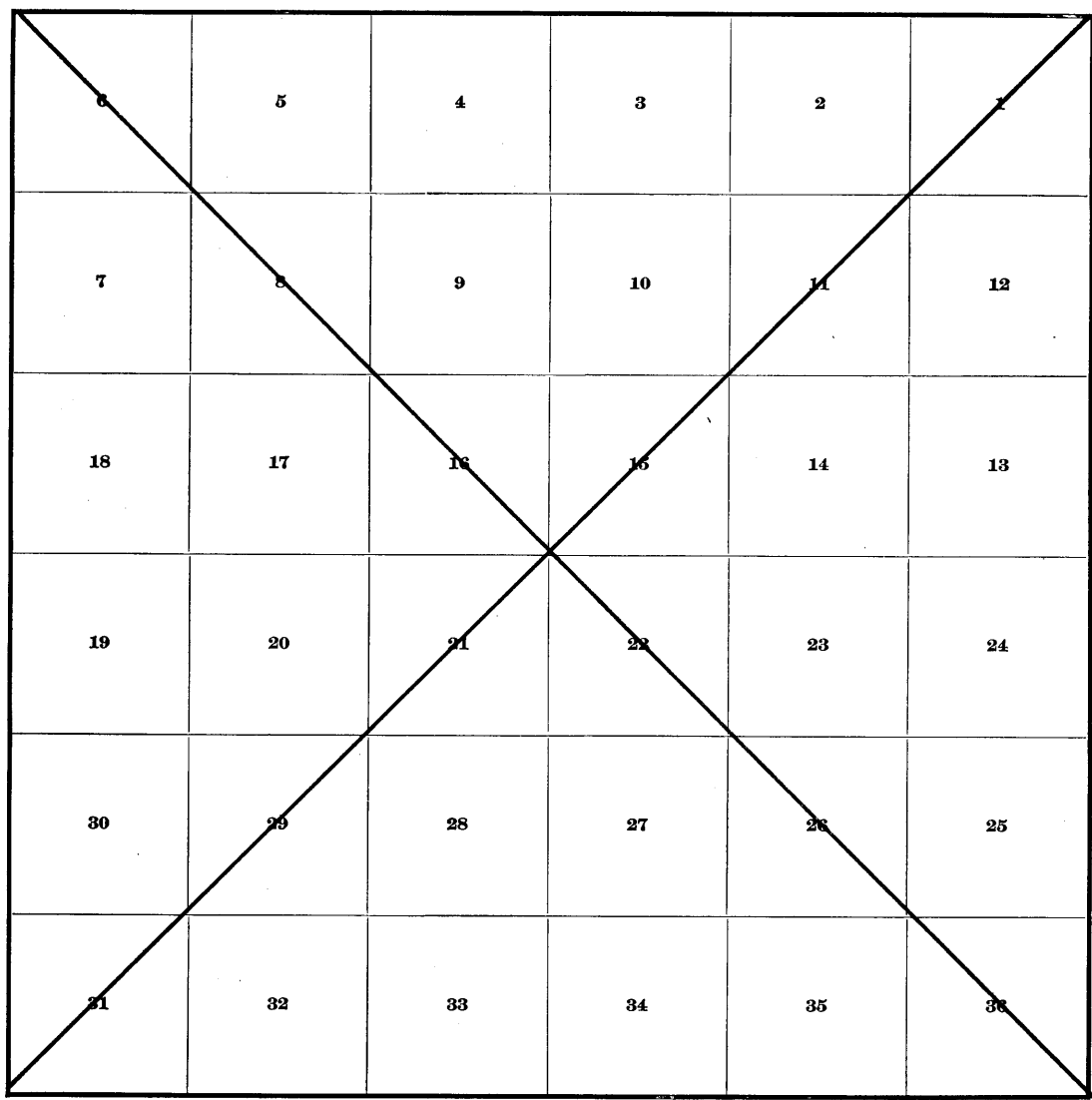
P. Y. White and Chas. L. Shumway                      Chairmen

Ralph C. Simpson                      Recorder

William R. Carson                      Flagman

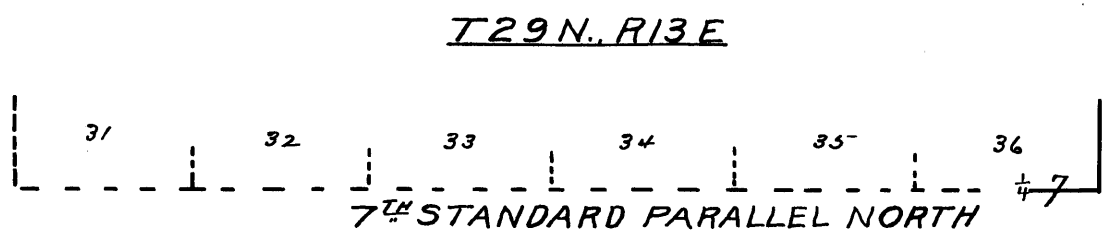
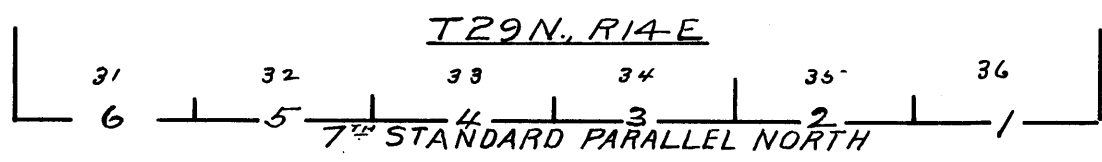
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# INDEX DIAGRAM.



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PRELIMINARY OATHS OF ASSISTANTS.

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WE, Earl Albright, Fred L. Warner and T. J. White, <sup>and</sup> Chas. L. Shumway

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 South Standard Parallel North through Range 14 East and part of Range 13

Chas. L. Shumway and Earl Albright <sup>(East of the S. & S. R. Meridian, Arizona)</sup>, Chainmen.

T. J. White and Fred L. Warner, Chainmen.

Subscribed and sworn to before me this 10<sup>th</sup>

day of January, 1910



Sidney E. Blout

U.S. Examiner of Surveys

I, Ralph Sampson

do solemnly swear that ~~we~~ <sup>me</sup> will well and truly perform the duties of moundman in the establishment of corners, according to the instructions given ~~us~~ <sup>me</sup> to the best of ~~our~~ <sup>my</sup> skill and ability, in the survey of

The South Standard Parallel North through Range 14 East and part of Range 13

Ralph Sampson <sup>East of the S. & S. R. Meridian, Arizona</sup>, Moundman.

Moundman.

Subscribed and sworn to before me this 10<sup>th</sup>

day of January, 1910



Sidney E. Blout

U.S. Examiner of Surveys

~~WE, \_\_\_\_\_ 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~~

~~The South Standard Parallel North through Ranges 13 and 14 East~~

~~\_\_\_\_\_ Axman.~~

~~\_\_\_\_\_ Axman.~~

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

~~day of \_\_\_\_\_, 10~~



I, William R. Carson, 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 South Standard Parallel North through Range 14 East and part of Range 13 East of the S. & S. R. Meridian, Arizona

Wm. R. Carson, Flagman.

Subscribed and sworn to before me this 10<sup>th</sup>

day of January, 1910



Sidney E. Blout

U.S. Examiner of Surveys

Book 2017

Survey commenced January 11<sup>th</sup> 1910 and executed with a W & S. E. Tinsley engineers transit No. 76. with a Burk solar attachment. The horizontal limb is provided with one double vernier, reading to single minutes of arc. The verniers of the latitude and declination arcs, read to 0'30" of arc. I examined the adjustments of the transit and find them to be as nearly perfect as I am able to make them, and know from recent tests of the solar apparatus, by comparing its indications resulting from solar observations made during a.m. and p.m. hours, with a meridian established by observations on Polaris, that the instruments is in satisfactory adjustment, therefore I begin at the Standard Cor. of Tps. 29 N. R's 14 and 15 <sup>as described in Standard Book "G"</sup> which I established April 24<sup>th</sup> 1909

Latitude  $35^{\circ} 51' 28''$  N. Longitude  $110^{\circ} 47' 21''$  W.

January 11<sup>th</sup> 1910. at 8<sup>h</sup> 00<sup>m</sup> a.m. <sup>1.m.t.</sup> set off.  $35^{\circ} 51\frac{1}{2}'$  N. on the lat. arc.  $21^{\circ} 49'$  S. on the decl. arc and determine a meridian with the solar at the above mentioned cor., then I measure.

Went on on S. bdy. of sec. 36.

Descend N.W. slope over rolling sandy land through scattering sage and greasewood brush undergrowth and bunch grass.

10.08 Old road to Blue Canyon at foot of desert head N and S. ascend gradually over N.E. slope.

Difference bet. measurements of 40.00 ch. by two sets of chainmen is 2. lks., position of middle point.

By 1<sup>st</sup> set 40.01 ch.

By 2<sup>nd</sup> set 39.99 ch. the mean of which is .

40.00 Set an iron post 3 ft. long in. in diam. 26 in. in the ground for Standard  $\frac{1}{4}$  sec. cor. marked on bears Cap.  $\frac{1}{4}$  536 on N. half.

Dig pits 18x18x12 in. E and W. of post. 3 ft. dia. and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high. No. of cor.

60.00 Top of sand ridge bears N and S. desc. gradually over W. slope

Difference bet. measurements of 80.00 ch. by two sets of chainmen is 2 lks., position of middle point

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- 80.00 By 1<sup>st</sup> Set 80.01 Chs.  
By 2<sup>nd</sup> Set 79.99 Chs., the mean of which is.  
Set an iron post 3 ft. long 3 ins. in diam 24  
ins. in the ground for Standard cor. of secs. 35  
and 36. marked on brass Cap. T2976. S35 in 76. W.  
and R14 E S 36 in N.E. quadrant.  
Dig pits 24x18x12 ins. crosswise on each line E and  
W. 3 ft. and N. of post 7 ft. dia. and raise a  
mound of earth 4 ft. base, 3 ft. high N. of cor.  
Hand rolling  
Soil sandy 3<sup>rd</sup> rate.  
No timber.
- 
- Work on S. side of sec. 35  
Descend W. slope over rolling sandy land through  
scattering sage and greasewood brush undergrowth  
and bunch grass
- 3.00 Foot of descent in depression bears N. and S. drains  
N. are gradually.
- 21.00 Top of ridge bears N. and S. desc. gradually.
- 36.40 Dry sand wash 20 lbs. wide 3 ft. deep course  
N.W.
- 38.15 The same sand wash course S.W. are.
- Difference bet. measurements of 40.00 chs. by two  
sets of chainmen is 2 lbs.; position of middle point
- By 1<sup>st</sup> Set 40.01. chs.  
By 2<sup>nd</sup> Set 39.99 chs. the mean of which is
- 40.00 Set an iron post 3 ft. long 1 in. in diam. 2.6 ins.  
in the ground, for stand.  $\frac{1}{4}$  sec. cor. marked on  
brass cap.  $\frac{1}{4}$  S. 35 on N. half.  
Dig pits 18x18x12 ins E and W. of post 3 ft. dia and  
raise a mound of earth 3  $\frac{1}{2}$  ft. base,  $\frac{1}{2}$  ft. high  
N. of cor.  
This cor. is situated at top of ascent on sand ridge  
bears N. and S. desc.
- 45.25 The same sand wash course N.W.
- 50.50 Dry sand wash 15 lbs. wide 3 ft. deep course N.  
are.
- 57.00 Top of sand ridge bears N. and S. desc. gradually.  
Difference between measurements of 80.00 chs. by  
two sets of chainmen is 4 lbs.; position of middle point

80.00 By 1<sup>st</sup> Sec. 80.02 Chs.  
 By 2<sup>nd</sup> Sec 79.98 Chs. the mean of which is  
 Set an iron post 3 ft. long 3 ins. in diam.  
 24 ins. in the ground for Standard Cor. of  
 Secs. 34 and 35, marked on brass cap T 29 N.  
 S 34 in N.W. and R 14 E. S 35 in N.E. quadrant.  
 Dig pits 24 x 18 x 12 ins. crosswise on each line  
 East W. 3 ft. and W. of post. 7 ft. dist. and  
 raise a mound of earth 4 ft. base, 2 ft. high N.  
 of cor.  
 Land rolling and hilly.  
 Soil sandy 3<sup>rd</sup> rate.  
 No timber

15.90 West on S. side of Sec. 34.  
 Descend gently over N.W. slope over rolling sandy  
 land through scattering sage and greasewood  
 bush undergrowth and bunch grass.  
 Old road to Oraibi Ariz bears N.E. and S.W.  
 Difference bet. measurements of 40.00 Chs. by  
 two sets of chainmen is 04 Chs. position of  
 middle point.

40.00 By 1<sup>st</sup> Sec. 39.98 Chs.  
 By 2<sup>nd</sup> Sec 40.02 Chs. the mean of which is  
 Set an iron post 3 ft. long 1 in. in diam. 26 ins  
 in the ground for Standard 1/4 sec. cor. marked  
 on brass cap 1/4 S 34 on N. half.  
 Dig pits 18 x 18 x 12 ins East W. of post. 3 ft. dist.  
 and raise a mound of earth 3 1/2 ft. base, 1 1/2 ft. high.  
 N. of cor.  
 Difference between measurements of 80.00 Chs.  
 by two sets of chainmen is 04 Chs., position  
 of middle point.

80.00 By 1<sup>st</sup> Sec. 80.02 Chs.  
 By 2<sup>nd</sup> Sec 79.98 Chs. the mean of which is  
 Set an iron post 3 ft. long 3 ins. in diam 24 ins.  
 in the ground for Standard Cor. of secs. 33 and  
 34. marked on brass cap. T 29 N S 33 in N.W.  
 and R 14 E S 34 in N.E. quadrant.  
 Dig pits 24 x 18 x 12 ins. crosswise on each line  
 East W. 3 ft. and W. of post. 7 ft. dist. and raise

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a mound of earth 4 ft. base, 2 ft. high No. of cor  
sand rolling  
Soil sandy 3rd rate.  
No timber

West on S. side of Sec. 33.

Over rolling sandy land through scattering  
sage and greasewood bush under growth and  
brush grass.

10.20 Dry sand wash 10 lbs. wide 1 ft. deep course  
S.W. Leave rolling land bears N.E. and S.W. Eten.  
level land bears N.E. and S.W.

27.15 Intersect left bank of the De Nebito Wash 25  
ft. high bears N.E. and S.W.

30.00 Center of dry bed of Wash course S.W.

33.25 Right bank of the De Nebito Wash 30 ft. high  
bears N.E. and S.W., thence over level land.

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

By 1<sup>st</sup> Set 39.98 Chs.

By 2<sup>nd</sup> Set 40.02 Chs. the mean of which is

40.00 Set an iron post 3 ft. long 1 in in diam. 26 ins in  
the ground for 4 sec. cor. marked on brass cap  
14 S 33 on N. half.

Dig pits 18 x 18 x 12 ins. E and W. of post 3 ft.  
diam. and raise a mound of earth 3 1/2 ft. base  
1 1/2 ft. high No. of cor.

NOTE

At this cor. I set off 21° 50' S. on the decl arc.  
and at noon observe the sun on the meridian  
and obtain on the lat. arc a reading of 35° 51 1/2' N.

Difference between measurements of 80.00 chs.  
by two sets of chainmen is 2 chs. position of  
middle point.

By 1<sup>st</sup> Set 79.99 Chs.

By 2<sup>nd</sup> Set 80.01 Chs. the mean of which is

80.00 Set an iron post 3 ft. long 3/4 in. in diam. 24  
ins in the ground for Standard Cor. of sec. 32  
and 33. marked on brass cap. T29 N 332 in  
N.W. R14 E S 33 in N.E. quadrant.

Dig pits 24 x 18 x 12 ins. crosswise on each line E and W.



3 ft. and N of post. 7 ft. dia. and raise a mound of earth 4 ft. base, 2 ft. high N. of cor.  
 Land level and rolling.  
 Soil sandy 2<sup>nd</sup> and 3<sup>rd</sup> rate.  
 No timber.

Wash on S. bdy. of sec. 32.  
 Over level sandy land through scattering sage and greasewood brush undergrowth and bunch grass  
 Difference between measurements of 4000 chs by two sets of chainmen is 6 lbs., position of middle point.

By 1<sup>st</sup> set 4003 chs.  
 By 2<sup>nd</sup> set 3997 chs. the mean of which is 4000  
 Set an iron post 3 ft. long 1 in. in diam. 26 ins in the ground for Standard. 4 sec. cor. marked on brass cap 1/4 S 32 on N. half.

Dig pits 18x18x12 ins E and W. of post 3 ft. dia. and raise a mound of earth 3 1/2 ft. base, 1 1/2 ft. high N. of cor.

70.00 Level land bears N.E. and S.W. Center rolling land bears N.E. and S.W., are gently over S.E. slope  
 Difference between measurements of 8000 chs. by two sets of chainmen is 4 lbs., position of middle point.

By 1<sup>st</sup> set 8002 chs.  
 By 2<sup>nd</sup> set 7998 chs. the mean of which is 8000  
 Set an iron post 3 ft. long 3 ins. in diam. 24 ins. in the ground for Standard Cor. of secs 31 and 32. marked on brass cap. T29 N S 31 in N.W. and R14 E. S 32 in N.E. quadrant.

Dig pits 24x18x12 ins. crosswise on each like E and W. 3 ft. and N. of post 7 ft. dia. and raise a mound of earth 4 ft. base, 2 ft. high N. of cor.

Land level and rolling.  
 Soil sandy 2<sup>nd</sup> and 3<sup>rd</sup> rate.  
 No timber.

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West on S Dry. of sec. 31

around E. slope has rolling sandy land through scattering sage and greasewood brush underneath and black grass

13,000 Top of sand ridge from N and S. desc.

28,000 Dry sand wash 25 lbs. wide 4 ft. deep course S. asc.

Difference between measurements of 4,000 chs by two sets of chainmen is 0.4 lbs., position of middle point

By 1<sup>st</sup> set 40.02 chs.By 2<sup>nd</sup> set 39.98 chs. the mean of which is4,000 Set an iron post 3 ft. long 1 in. in diam. 26 ins. in the ground for standard 4 sec. cor. marked on brass cap  $\frac{1}{4}$  S 31 on N. half.Dig pits 18x18x12 ins. E and W. of post 3 ft. dia. and raise a mound of earth 3  $\frac{1}{2}$  ft. base,  $\frac{1}{2}$  ft. high N. of cor.

Difference between measurements of 80,000 chs. by two sets of chainmen is 4 lbs. position of middle point.

By 1<sup>st</sup> set 80.02 chs.By 2<sup>nd</sup> set 79.98 chs. the mean of which is

80,000 Set an iron post 3 ft. long 3 ins. in diam. 24 ins. in the ground for Standard Cor. of Pks 2976, R 13 and 14 E. marked on brass cap T 2976 in N. half., R 13 E S 86 in N. W. and R 14 E S 31 in N. E. quadrant.

Dig pits 20x24x12 ins. crosswise on each line E and W. 4 ft. and N. of post 8 ft. dia. and raise a mound of earth 5 ft. base, 2  $\frac{1}{2}$  ft. high N. of cor.

Land rolling.

Soil sandy 3<sup>rd</sup> rate.

No timber.

January 11<sup>th</sup> 1912

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Sunny commenced Jan 11<sup>th</sup> 1910 and executed with a Waud L. E. Gurley engineers transit No 76 with a Bush Solar attachment. The horizontal limb is provided with one double vernier reading to single minute of arc. The verniers of the latitude and declination arcs, read to 0'30" of arc. I examined the adjustments of the transit and find them to be as nearly perfect as I can make them, and know from recent tests of the solar apparatus, by comparing its indications resulting from solar observations made during a.m. and p.m. hours with a meridian established by observations on polaris, that the instrument is in satisfactory adjustment therefore I begin at the Standard Cor. of Twp. 24 N. R. 13 and 14 E. <sup>herebefore described</sup> which I established this afternoon. Latitude 35° 51' 28" N. Longitude 110° 53' 31" W.

At 2<sup>h</sup> 40<sup>m</sup> p.m. <sup>1.00</sup> set off 35° 51½' N. on the lat. arc, 21° 48' S. on the decl. arc. and determine a meridian with the solar at the above mentioned cor. Thence I run

Wash on S. side of Sec. 36.

Ascend S. slope over rolling sandy land through scattering sage and greasewood bush undergrowth and bunch grass.

Difference between measurements of 4000 chs by two sets of chainmen is 4 chs., position of middle point.

By 1<sup>st</sup> set 3998 Chs.

By 2<sup>nd</sup> set 4002 Chs. the mean of which is

40.00

Beham iron post 3 1/2" long 1 in. in diam. 26 in. in the ground for Stand. 1/4 sec. cor. marked on brass cap 1/4 S 36 on No. half.

Dig pits 18x18x12 ins E. and W. of post 3 ft. dist. and raise a mound of earth 3 1/2 ft. base, 1 1/2 ft. high 1/2 of cor.

Land rolling.

Soil sandy <sup>3<sup>rd</sup></sup> rate

No timber.

January 11<sup>th</sup> 1910

## General Description

Through Ranges 13 and 14 E. this line crosses a rolling prairie country.

The land south of the line in Township 28 North Range 14 E. is of a hilly broken character covered with scattering cedar timber, while the land in the townships to the north consists of rolling prairie which should be subdivided.

Irduoy E. Blout

U. S. Examiner of Surveys

January 11<sup>th</sup> 1910.

LIST OF NAMES.

A list of the names of the individuals employed by Sidney E. Blouh  
Examiner of Surveys  
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 Smith  
Standard Parallel North through Ranges 4 East and part of Range 13 East  
of the Gila and Salt River Base and Meridian, Arizona  
showing the respective capacities in which they acted:

- Van L. White Compassman
- Fred L. Warner and Earl Albright Chainman
- P. Y. White and Chas L. Shumway Chainman
- Ralph Sampson Moundman
- William R. Carson Flagman

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Sidney E. Blouh  
Examiner of Surveys  
United States Deputy Surveyor, in surveying all  
those parts or portions of the Smith Standard Parallel North through  
Ranges 13 & 4 East

of the Gila and  
Salt River Base and 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 executed and the  
corner monuments established, according to the instructions furnished by the United States Surveyor

- General for of the General Land Office Van L. White Compassman
- Earl Albright and Fred L. Warner Chainman
- P. Y. White and Chas L. Shumway Chainman
- Ralph C. Sampson Moundman
- William R. Carson Flagman

Subscribed and sworn to before me this 11<sup>th</sup>  
day of January, 1910

Sidney E. Blouh  
U.S. Examiner of Surveys



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EXAMINER OF SURVEYS  
FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.  
(same applies to Standard Book "C")

I, Sidney E. Blout, Examiner of Surveys United States Deputy Surveyor, do solemnly swear that, in pursuance of Special Instructions received from the Commissioner of the General Land Office, bearing date of the 9<sup>th</sup> day of Oct. 1907 and the 15<sup>th</sup> day of May 1908, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Commissioner General for of the General Land Office, the Manual of Surveying Instructions, and the laws of the United States, surveyed, <sup>or resurveyed</sup> all those parts or portions of The 7<sup>th</sup> Standard Parallel North, Through Ranges 13, 14, 15, 16, 17, 18 and 19 East

of the Gila and Salt River Base and Meridian, in the Territory of Arizona, which are represented in the foregoing field notes, <sup>and those in Standard Book "C"</sup> as having been surveyed, <sup>or resurveyed</sup> by me, and under my direction; and I do further solemnly swear that all the corners of said survey, <sup>or resurvey</sup> have been established, <sup>or re-established</sup> and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Commissioner General for of the General Land Office, and in the specific manner described in the field notes, and that the foregoing are the original field notes of such surveys <sup>and resurveys</sup> and those in Standard Book "C"

Sidney E. Blout  
United States Deputy Surveyor  
Examiner of Surveys

Subscribed by said Sidney E. Blout, and sworn to before me }  
this 14<sup>th</sup> day of March, 1911

Frank Ingalls  
SURVEYOR-GENERAL OF ARIZONA



APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Phoenix, Arizona APR 25 1914

The foregoing field notes of the survey of the  
7th Standard Parallel thru R. 14 E. and part of Range 13 E. of the  
Gila and Salt River Base and Meridian, Arizona.

executed by Sidney E. Blout, U.S. Examiner of Surveys under Special Instructions from the Commissioner of the General Land Office, dated October 2, 1907 and May 15, 1908, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Frank Ingalls  
United States Surveyor General  
SURVEYOR-GENERAL OF ARIZONA

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.