

*Drawn by A*  
*Aug 4/09*  
*Accepted - letter E - July 31 - 1910*  
*NOV 28 1908*

Book I.

**2140** BOOK 2140  
**FIELD NOTES**

**2140**

OF THE SURVEY OF THE

*Resurvey of the*  
*Second Standard Parallel South*  
*through part of Rs. 13 and 14 E.*

**2140**

*Of the Gila and Salt River Base and Meridian,*  
*Arizona*

AS SURVEYED BY

*Jacobs Hurry*, United States Deputy Surveyor,  
*Under his* <sup>*then*</sup> *Contract No. 148*, dated *March 20*, 1908  
*Survey commenced August 25*, 1908  
*Survey completed August 26*, 1908

**2140**

**2140**

**2140**

NAMES AND DUTIES OF ASSISTANTS.

BOOK 2140

<i>Harry J. Young</i>	<i>Chairman</i>
<i>Jim P. Kellis</i>	<i>"</i>
<i>James Hughes</i>	<i>Recorder</i>

BOOK 2140

INDEX DIAGRAM.

Township 10 S, Range 14 E.

6	5	4	3	2	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

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PRELIMINARY OATHS OF ASSISTANTS.

WE, Harry S Young and Jim A Kellis  
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 Second Standard Parallel South through part of Rs. 13 and 14 E.

Harry S Young, Chainman.  
Jim A Kellis, Chainman.

Subscribed and sworn to before me this 24  
day of August, 1908



My commission expires September 20, 1911

Francis Jacobs  
Notary Public

WE, James Hughes 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

the Second Standard Parallel South through part of Rs. 13 and 14 E.

James Hughes, Moundman.  
\_\_\_\_\_, Moundman.

Subscribed and sworn to before me this 24  
day of August, 1908



My commission expires September 20, 1911

Francis Jacobs  
Notary Public

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

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

Subscribed and sworn to before me this \_\_\_\_\_  
day of \_\_\_\_\_, 190\_\_\_\_\_



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 \_\_\_\_\_, 190\_\_\_\_\_



Resurvey of the Second Standard Parellel South.  
Through R. 14 E.

14

Chains.

It is apparent from the data obtained in closing subdivision lines of T. 11 S., R. 14 E. on the 2nd Standard Parellel South; that it is defective, both in posotion and alinement; therefore for the purpose of reestablishing the obliterated corner and giving the true course of the lines between the corners, we proceed as follows;

August 25; At 7h. 00m. a.m., l.m.t., we set off  $32^{\circ}30'N$  N. on the lat. arc;  $10^{\circ}49' E.$  on the decl. arc; and determine a true line with the solar, at the Standard cor. of secs. 33 and 34., which is a post 4 ins. square, 4ft. above ground, firmly set and marked S C T N S R 14 E S 34 on E., and 33 on W. face, also marked PINAL CO, on N. and PIMA CO. on S. face. Post surrounded with mound of stone.

Note; We have not a sufficient number of assistants to admit of our using two sets of chainmen, and it is not possible to secure other assistants without great expense and delay; in lieu of using two sets of chainmen; we chain each and every line over twice, giving the mean of the results of the two chainings.

From the Standard cor. of secs. 33 and 34, the Standard cor. of secs. 32 and 33 is plainly visible being situated on the E. slope of a ridge, its bearing S.  $89^{\circ}27' W.$ , therefore we run S.  $89^{\circ}27' W.$

Over a random line.

Over rolling and hilly land.

30.00

Wash 30 lks. wide, course S.

Difference between measurements of two chainings is 2 lks.

1st, 40.44 chs

2nd, 40.46 chs., the mean of which is

40.45

A point 15 lks. N. of the standard cor. of secs. 33, which is a post lying on the ground, and badly decayed

Set a granite stone 18 x 8 x 6 ins., 12 ins. in the ground, at the original cor. point, marked S.C.  $\frac{1}{4}$  on N. face.

Dig pits 18 x 18 x 12 ins., E and W. of cor., 3ft. dist., and raise a mound of earth 4ft. base, 2ft. high, N. of cor.

True course of this  $\frac{1}{4}$  mile is S.  $89^{\circ}14' W.$

I set over this cor. and run

West on a random line

3.50

Wash 20 lks. wide, course S.

30.85

Wash 40 lks. wide, course S.  $15^{\circ} E.$

33.00

Ascend.

40.17

A point 23 lks. N. of the Standard cor. of secs 32 and 33, which is a post 4 ins. square, 4ft. above ground, surrounded by a mound of stone, marked PINAL CO. T 10 S R 14 E on N. SC 33 on E. and SC S 32 on W. face, and PIMA CO. on S. face.

True course of this  $\frac{1}{4}$  mile is S.  $89^{\circ}40' W.$

Land, rolling and hilly.

Soil. 3rd rate.

Timber, scattering mesquite and paloverde.

Rolling land, 80.62 chs.

West on a random line along S. bdy. of sec. 32.

Over mountainous and rolling land.

Ascend.

7.25

Ridge brs. NE and SW.

Descend.

Resurvey of the Second Standard Parellel South,  
Through R. ~~35~~ E.

14

Chains.  
22.00  
  
40.22  
  
12.45  
18.00  
21.00  
27.75  
32.00  
36.50

40.28

Bottom of ridge. is 4 lbs  
 Difference between measurments of two chainings is 4 lks.  
 1st, 40.20 chs.  
 2nd, 40.24 chs.; the mean of which is  
 A point 20 lks. E. of the Standard  $\frac{1}{4}$  cor.  
 The post has disapeared  
 We set a granite stone 18 x 8 x 5 ins., 12 ins. in the  
 ground, for standar  $\frac{1}{4}$  sec. cor. marked SC  $\frac{1}{4}$  on N. face  
 face, from which  
 A mesquite 8 ins. in diam. brs. N. 25 E., 142 lks.  
 dist. marked SC  $\frac{1}{4}$  S 32 B T. No othertree available.  
 Dig pits 18 x 18 x 12 ins., E. and W. of stone, 3ft.  
 dist., and raise a mound of earth, 4ft. base, 2ft.  
 high, N. of cor.  
 The true course of this  $\frac{1}{4}$  mile, is S. 89° 43' W.  
 We set over this cor. , and run  
 West on a random line  
 Road, Tucson to Oracle brs. N. and S.  
 Descend.  
 Bottom.  
 Wash 30 lks. wide, course S. 20° W.  
 Wash, 1 ch. wide, course S. 30° W.  
 Wash 2 shs. wide, course S. 30° W.  
 Difference in measurements of two chainings is 4 lks.  
 1st, 40.25 chs.  
 2nd, 40.30 chs.; the mean of which is  
 A point at which we find trace of the original Std.  
 cor., the post has disapeared,  
 We set a granite stone 20 x 8 x 5 ins., 15 ins. in the  
 ground, for Standard cor. of secs. 31 and 32, marked  
 S $\frac{1}{2}$  on N. with 5 grooves on E. and 1 groove on W.  
 face,; from which  
 A mesquite , 16 ins. in diam., brs. N 83° W., 285 lks.  
 dist., marked S $\frac{1}{2}$  T10 S R 14 E S 31 B T.  
 No other tree available.  
 Dig pits 24 x 18 x 12 ins. crosswise on each line,  
 E. and W. 3ft. , and N. of stone 7 ft. dist., and  
 raise a mound og earth 4ft. base, 2ft. high, N. of  
 cor.  
 The true course of this  $\frac{1}{4}$  mile is West.  
 Land, rolling and Mountainous.  
 Soil, 2nd and 3rd rate.  
 Timber, scattering mesquite and paloverde.  
 Mountainous land covered with dense undergrowth,  
 Rolling land, 44.00 chs.  
38.60 chs.

August 25, 1908.

3.70  
4.00  
38.00

38.41

August 26; At 7h 15m. a.m., l.m.t., we set off 32° 39' N.  
 on the lat. arc; 10 20' N. on the decl. arc; and  
 determine a true meridian with the solar, at the  
 above cor., and run thence  
 West on a random line  
 Over hilly land.  
 Road, brs. N. and S.  
 Ascend.  
 Ridge brs. SE and NW.  
 Descend.  
 Difference between measurmenrs of two chainings is 2 lks.  
 1st, 38.40 chs.  
 2nd, 38.42 chs.; the mean of which is  
 The standard  $\frac{1}{4}$  sec. cor., post lying on the ground,  
 badly decayed.  
 We set a granite stone, 16 x 8 x 6 ins., 12 ins. in the  
 ground, for standard  $\frac{1}{4}$  sec. cor., marked SC  $\frac{1}{4}$  on N.

Resurvey of the Second Standard Parellel South  
Through R. ~~D~~ E.

Chains.

face, from which  
A mesquite, 10 ins. in diam. brs. N  $60^{\circ}$  E., 130 lks.  
dist., marked SC  $\frac{1}{4}$  S 31 B T. No other trees available.  
Dig pits 18 x 18 x 12 ins., E. and W. of stone, 3ft.  
dist., and raise a mound of earth, 4ft. base, 2ft.  
high, N. of cor.  
The true course of this  $\frac{1}{4}$  mile, is West.; thence  
West on a random line  
11.80 Wash 50 lks. wide, course SE.  
13.00 Ascend.  
16.50 Ridge brs. SE and NW.  
Descend.  
21.60 Gulch 25 lks. wide, course S  $60^{\circ}$  E.  
Ascend.  
Difference between measurments of two chainings is 4 lks.  
1st, 40.48 chs.  
2nd, 40.52 chs.; the mean of which is  
40.50 A point 31 lks. N. of the standard cor., of Tp. 10 S.  
Rs. 13 and 14 E.; which is a post 4 ins. square,  
4 ft. above ground, marked SC T 10 S. on N., R 14 E  
S 31 on E. and R 13 E S 36 on W. face, with pits,  
N., E, and W., and mound of earth around the post.  
The true course of this  $\frac{1}{4}$  mile is  $589^{\circ}33'$  W.  
Land, broken.  
Soil, 2nd and 3rd rate.  
Timber, scattering mesquite.  
Mountainous land, 78.91 chs.

R. 13 E.

From the standard cor. of Tp. 10 S., R 13 and 14 E.  
we run  
West on a random line, on S. bdy. sec. 36.  
Over rolling land.  
37.00 Descend.  
37.45 We find the standard  $\frac{1}{4}$  sec. cor. post lying on the  
ground, but can find no marks upon the ground to  
indicate where it was set; we build temp.  $\frac{1}{4}$  sec. cor.  
at this point, and continue west.  
43.50 Wash, 40 lks. wide, course SE.  
44.00 Ascend.  
75.22 A point 20 lks. N. of the standard cor. of secs. 35  
and 36., which is a post 4 ins. square, 4ft. above  
ground, surrounded by a mound of stone, marked SC  
on N. T 10 S. S36 on E. and R 13 E. S 35 on W. face.  
We establish the standard  $\frac{1}{4}$  sec. cor. on the line, and  
equadistant between the sec. cors., as follows,  
37.61 Set a granite stone 18 x 10 x 5 ins. 12 ins. in the  
ground, for standard  $\frac{1}{4}$  sec. cor., maecked SC  $\frac{1}{4}$  on N.  
face.  
Dig pits 18 x 18 x 12 ins. E. and W. of stone, 3ft.  
dist., and raise a mound of earth, 4ft. base, 2ft.  
high, N. of cor.  
True course of this mile is S.  $89^{\circ}51'$  W.  
Land, broken.  
Soil, 3rd rate.  
Timber, mesquite and paloverde.  
Mountainous land, 75.22 chs.

August 26, 1908.

General Discription.

The land along this line is rolling and hilly, the soil along the main wash is very productive, and on the hills it produces a fair growth of grass; there is no permanent water. There is very little timber.

Wickenburg, Arizona. December 14, 1908.

*Francis D. Jacobs*

U. S. Deputy Surveyor.



FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by

*Jacobs and Curry*

United States Deputy Surveyors to assist in running, measuring, and

marking the lines and corners described in the foregoing field notes of the survey of

*the Second Standard Parallel South through Rs. 13 and 14 E*

showing the respective capacities in which they acted:

*Narry S. Young*

Chainman.

*Jim A. Kellis*

Chainman.

*James Hughes*

Moundman.

Moundman.

Arman.

Arman.

Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted

*Jacobs & Curry*

United States Deputy Surveyors in surveying all

those parts or portions of the

*Second Standard Parallel South*

*through part of Rs. 13 and 14 E*

of the *Sala and*

*Salt River Basins* meridian,

*Territory of Arizona*

which are represented in the foregoing field notes as having been surveyed by ~~him~~ <sup>them</sup> and under ~~his~~ <sup>their</sup> 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*

*Narry S. Young*

Chainman.

*Jim A. Kellis*

Chainman.

*James Hughes*

Moundman. X

Moundman.

Arman.

Arman.

Flagman.

Subscribed and sworn to before me this

*27*

day of

*August*

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*Francis Jacobs*

My commission expires September 20, 1911

*Notary Public*



FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Francis B. Jacobs <sup>and Daniel J. Curry</sup> United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from Frank D. Ingalls United States Surveyor General for Georgia, bearing date of the 20th day of March, 1908, 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 Georgia, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of the second Standard Parallel South through Sp. 13 and 14 East Side and Salt River Meridian, Georgia of the \_\_\_\_\_ meridian, in the \_\_\_\_\_ of \_\_\_\_\_, 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 Georgia and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

Francis B. Jacobs  
United States Deputy Surveyor.

Subscribed by said Francis B. Jacobs, and sworn to before me }  
this 27 day of September, 1909

Frank D. Ingalls  
U. S. Surveyor General



APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Horace A. Cooper Sept. 30 1909

The foregoing field notes of the survey of the second Standard Parallel South through Sp. 13 and 14 East Side and Salt River Meridian, Georgia

executed by Francis B. Jacobs <sup>and Daniel J. Curry</sup> under his contract No. 148, dated March 20, 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 D. 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.