

Standard  
BOOK "T"

BOOK 2526

FIELD NOTES

OF THE SURVEY OF THE

*3rd Guide Meridian E. through Tps 31 N.  
bet. R's 12 and 13 E.*

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

*in the Territory of Arizona*

EXECUTED  
AS SURVEYED BY

*Van L. White U.S. Measurer, United States Deputy Surveyor,  
Special Instructions from the Commissioner of the General Land Office*

*Under his Contract No. \_\_\_\_\_, dated Oct 2<sup>nd</sup> 1907 and May 15<sup>th</sup> 1908*

*Survey commenced March 3<sup>rd</sup> \_\_\_\_\_, 1911*

*Survey completed March 4<sup>th</sup> \_\_\_\_\_, 1911*

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NAMES AND DUTIES OF ASSISTANTS.

T. Y. White Chairman

Richard L. Shumway Chairman

George B. Seig Chairman

Nelson Polacca Chairman

Harry Keyope Moundman

William R. Carson Flagman

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3rd Guide Meridian East

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PRELIMINARY OATHS OF ASSISTANTS.

WE, T. Y. White, Richard L. Shumway, George B. Seig, Nelson Palacca  
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

3rd Guide Meridian Co. through Tps 31 N. bet Rs 12 and 13 E.  
of the G. & S. R. Base & Mer. Arizona.

George B. Seig and T. Y. White, Chainmen.  
Nelson Palacca and Richard L. Shumway Chainmen.

Subscribed and sworn to before me this 8th  
day of February, 1911



Van L. White  
U.S. Transitman

I, Harry Keyope  
do solemnly swear that ~~we~~ will well and truly perform the duties of moundman in the establishment of corners, according to the instructions given ~~us~~ to the best of ~~our~~ skill and ability, in the survey of

3rd Guide Meridian Co. through Tps 31 N. bet Rs 12 and 13 E.  
of the G. & S. R. Base & Mer. Arizona

Harry Keyope, Moundman.

Subscribed and sworn to before me this 8th  
day of February, 1911



Van L. White  
U.S. Transitman

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 \_\_\_\_\_, 19 \_\_\_\_\_



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

3rd Guide Meridian Co. through Tps 31 N bet Rs 12 and 13 E.  
of the G. & S. R. Base & Mer. Arizona.

William R. Carson Flagman.

Subscribed and sworn to before me this 8th  
day of February, 1911



Van L. White  
U.S. Transitman

Survey commenced March 3<sup>rd</sup> 1911 and executed with a <sup>Wm</sup> L. E. Gurley engineers transit No. 76 with a Baur 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 reading to 0' 30" of arc.

Examine the adjustments of the transit and find them correct 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 determined by observations on Polaris that the instrument is in satisfactory adjustment.

Began at the cor. of Twp 30 and 31 N., R's 12 and 13 described in Standard Book "S" which I established February 10<sup>th</sup> 1911.

Latitude 36° 01' 54" N., Longitude 116° 00' W.

On 8<sup>h</sup> 42<sup>m</sup> a.m. L.M. set off 36° 02' N. on the lat. arc. 7° 03' 3 on the decl. arc and determined a meridian with the solar <sup>at the above Tp. cor.</sup> hence I run

North Ch. pins 31 and 36.

Over rolling sandy and clayey land through scattering sage brush undergrowth and bunch grass.

38.67 Top of clay ridge 12 ft. high bears N40° E and S40° W. desc. toward rolling land bears N.E. and S.W. Enter hilly land. Difference bet. measurements of 40.00 chs. by two sets of chainmen is 02 lbs. position of middle point By 1<sup>st</sup> set. 39.99 chs.

40.00 By 2<sup>nd</sup> set 40.01 chs. the mean of which is Set an iron post 3 ft. long 1 in. in diam. 26 ins. in the ground for 1/4 sec. cor. marked on brass cap '4536 on W. half and 331 on E. half.

Dug pits 18 x 18 x 12 ins. N. and S. of post 3 ft. dish and made a mound of earth 3 1/2 ft. base, 1 1/2 ft. high. W. of cor.

54.35 Dry ravine course East as e.

62.60 Top of sand ridge bears N.E. and S.W. desc. over rolling land. Difference bet. measurements of 80.00 chs. by two sets of chainmen is 08 lbs. position of middle point By 1<sup>st</sup> set. 79.96 chs.

80.00 By 2<sup>nd</sup> set 80.04 chs. the mean of which is Set an iron post 3 ft. long 3/8 in diam. 24 ins. in the ground for cor. of sec. 25, 30, 31 and 36 marked

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on brass cap. T 31 N. in N. half, R 12 E, S 25 in NW.  
R 13 E, S 30 in N.E. S 31 in S.E. and S 36 in S.W. quadrant.  
Dig pits 18 x 18 x 12 ins. in each sec. 5 1/2 ft. dist. and  
raise a mound of earth 4 ft. base, 2 ft. high W. of cor.  
Land rolling and hilly.  
Soil sandy and clayey 3<sup>rd</sup> rate.  
No timber

North lb. secs. 25 and 30.

Over rolling sandy land through sage and greasewood  
brush undergrowth and bunch grass

39.60 Pop. of sand ridge bears N.E. and S.W. desc. gradually  
over N.W. slope.

Difference lb. measurements of 40.00 chs. by two sets  
of chainmen is 05 lbs. position of middle point

By 1<sup>st</sup> set. 39.97 1/2 chs.

By 2<sup>nd</sup> set 40.02 1/2 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 1/4 sec. cor. marked on brass cap 1/4 S 25  
on W. half and S 30 on E half.

Dig pits 18 x 18 x 12 ins. N. and S. of post. 3 ft. dist. and raise  
a mound of earth 3 1/2 ft. base, 1 1/2 ft. high W. of cor.

Difference lb. measurements of 80.00 chs. by two sets  
of chainmen is 08 lbs. position of middle point

By 1<sup>st</sup> set. 79.96 chs.

By 2<sup>nd</sup> set 80.04 chs., the mean of which is

80.00 Set an iron post 3 ft. long 3 ins. in diam. 24 ins. in  
the ground for cor. of secs. 19, 24, 25 and 30 marked  
on brass cap T 31 N. in N. half R 12 E S 24 in NW. R 13 E  
S 19 in N.E. S 30 in S.E. and S 25 in S.W. quadrant.

Dig pits 18 x 18 x 12 ins. in each sec. 5 1/2 ft. dist. and raise  
a mound of earth 4 ft. base, 2 ft. high W. of cor.

Land rolling.

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

No timber

NOTE

On this cor. V set off 7° 00 1/2' S. on the decl. arc and  
at noon observe the sun on the meridian and  
obtain a reading of 36° 03 1/2' N. on the lab. arc.

North lb. secs. 19 and 24

37.00 Over rolling sandy land through scattering sage brush undergrowth and bunch grass  
Leaving rolling land bears N.E. and S.W. ascend S.E. slope over hilly land.

Difference bet. measurements of 40.00 chs. by two sets of chainmen is .08 chs. position of middle point  
By 1<sup>st</sup> set. 39.96 chs.

40.00 By 2<sup>nd</sup> set 40.04 chs. the mean of which is.  
The point for the 1/4 sec. cor. falls on steep E. slope of clay ridge where prevailing conditions would insure the destruction of the cor. therefore I continue on line North and ab.

41.50 Set an iron post 3 ft. long 1 in. in diam. 2 bars in the ground for witness cor. to the 1/4 sec. cor. marked on brass cap. T 31 N., R 12 E. R 13 E. S 24. S 19 in N. half and W.C. 1/4 in S. half

Raise a mound of stone 2 ft base 1 1/2 ft. high W. of cor.  
Pits impracticable.

60.50 Top of steep ascent bears N.E. and S.W. Enter low rolling sand hills.

79.00 Foot of descent in depression bears N.E. and S.W. drains to the N.E. asc. S.E. slope.

Difference bet. measurements of 80.00 chs. by two sets of chainmen is .10 chs. position of middle point  
By 1<sup>st</sup> set. 79.95 chs.

80.00 By 2<sup>nd</sup> set 80.05 chs. the mean of which is  
Set an iron post 3 ft. long 3/4 in. in diam. 24 in. in the ground for cor. of secs. 13, 18, 19 and 24, marked on brass cap T 31 N. in N. half, R 12 E., S 13 in N.W. R 13 E. S 18 in N.E. S 19 in S.E. and S 24 in S.W. quadrant.  
Dig pits 18 x 18 x 12 in. in each sec. 5 1/2 ft. deep and raise a mound of earth 4 ft. base 2 ft. high W. of cor.

Land rolling and hilly.  
Soil sandy 3<sup>rd</sup> rate.  
No timber.

March 3<sup>rd</sup> 1911

1911  
March 4<sup>th</sup> Ah. 8<sup>h</sup> 12<sup>m</sup> a.m. land set off 36° 04 1/2' N. on the lab arc 6° 40' S. on the decl. arc and determine a meridian with the solar ab. the cor. of secs. 13, 18, 19 and 24<sub>1</sub> <sup>above described</sup> hence done

The Third Guide Meridian East, through T<sub>1</sub> 31 N. bet. R's 12 and 13 East.

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North bet. secs. 13 and 18.

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

14.00 Top of ridge bears N.E. and S.W. due gradually over N.W. slope.

Difference bet. measurements of 40.00 chs. by two sets of chainmen is 0.4 lbs. position of middle point  
By 1<sup>st</sup> set. 40.02 chs.40.00 By 2<sup>nd</sup> set 39.98 chs. the mean of which is  
Set an iron post 3 ft. long 1 in. in diam. 26 ins. in the ground for  $\frac{1}{4}$  sec. cor. marked on brass cap  $\frac{1}{4}$  S 13 on W. half and S 18 on E. half.Dig pits 18 x 18 x 12 ins. N and S. of post 3 ft. dist. and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high W. of cor.Difference bet. measurements of 80.00 chs. by two sets of chainmen is 0.8 lbs. position of middle point  
By 1<sup>st</sup> set 80.04 chs.80.00 By 2<sup>nd</sup> set 39.96 chs. the mean of which is  
Set an iron post 3 ft. long 3 ins. in diam. 24 ins. in the ground for cor. of secs. 7, 12, 13 and 18, marked on brass cap T 31 N. in N. half, T 12 E S 12 in N.W., T 13 E S 7 in N.E., S 18 in S.E. and S 13 in S.W. quadrant.Dig pits 18 x 18 x 12 ins. in each sec  $5\frac{1}{2}$  ft. dist. and raise a mound of earth 4 ft. base 2 ft. high W. of cor.Land rolling  
Soil sandy 3<sup>rd</sup> rate  
No timber

North bet. secs 7 and 12.

Over rolling sandy land slopes to the N.W., through scattered sage and greasewood bush undergrowth and bunch grass.

Difference bet. measurements of 40.00 chs. by two sets of chainmen is 0.2 lbs. position of middle point  
By 1<sup>st</sup> set. 40.01 chs.40.00 By 2<sup>nd</sup> set 39.99 chs. the mean of which is  
Set an iron post 3 ft. long 1 in. in diam. 26 ins. in the ground for  $\frac{1}{4}$  sec. cor. marked on brass cap  $\frac{1}{4}$  S 12 on W. half and S 7 on E. half.



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

NOTE At this cor. Set off 6° 37 1/2' S on the decl arc and at noon observe the sun on the meridian and obtain a reading of 36° 05 1/2' N. on the lat. arc. Difference bet. measurements of 80.00 chs. by two sets of chainmen is 10 chs., position of middle point

By 1<sup>st</sup> set. 80.05 chs.  
By 2<sup>nd</sup> set. 79.95 chs. the mean of which is 80.00  
Set an iron post 3 ft. long 3 ins. in diam. 24 ins. in the ground for cor. of secs. 1, 6, 7, and 12 marked on brass cap T 31 N. in N. half, R 12 E S 1 in N.W. R 13 E S 6 in N.E. S 7 in S.E. and S 12 in S.W. quadrants. Dig pits 18x18x12 ins. in each sec. 5 1/2 ft. dist. and raise a mound of earth 4 ft base 2 ft. high W. of cor.

Land rolling.  
Soil sandy 3<sup>rd</sup> rate.  
No timber.

North h. sec 1 and 6.

Over rolling sandy land through sage and greasewood bush undergrowth and bunch grass

26.50 Low rolling land bears E and W. Enter hilly land Descend steep rocky N. slope into canyon

31.25 Foot of steep descent in canyon. Cross dry ravine 30 chs wide course west. Leave hilly land bears E. and W. Enter level land.

Difference bet. measurements of 40.00 chs. by two sets of chainmen is 06 chs. position of middle point.

By 1<sup>st</sup> set. 40.03 chs.

By 2<sup>nd</sup> set. 39.97 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 1/4 sec. cor. marked on brass cap 1/4 S 1 on W. half and S 6 on E half.

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

46.00 Leave level land bears E. and W. Enter stony hilly land bears E and W. Ascend abruptly over S. slope

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69.50 of bluff 100 ft. high.  
Top of bluff bears  $N45^{\circ}E$  and  $S45^{\circ}W$ , desc abruptly over N.W. slope.

Difference ch. measurements of 8000 chs by two sets of chainsmen is 12 lks., position of middle point.

By 1<sup>st</sup> set, 80.06 chs.

80.00 By 2<sup>nd</sup> set 79.74 chs. the mean of which is  
Set an iron post, 3 ft. long 3 ins. in diam. 24 ins in the ground for cor. of Twp. 31 and 32 N., R's 12 and 13 E. marked on base of T 32 N. in N. half and T 31 N. in S. half, R 12 E S 36 in N.W., R 13 E S 31 in N.E., R 13 E S 6 in S.E. and R 12 E. S 1 in S.W. quadrant.  
Dig pits 24x24x12 ins. N.E. and W. 4 ft. and S. of post 8 ft. dish. and raise a mound of earth 5 ft. base, 2 1/2 ft. high S. of cor.

Land level and hilly.

Soil sandy and stony 3<sup>rd</sup> and 4<sup>th</sup> rate.

No timber.

March 4<sup>th</sup> 1911

### General Description

Townships 31 N., Ranges 12 and 13 East. are generally high mesa lands, producing a good growth of different kinds of grasses, and there is some good land in the bottom of the canyons which cut through these townships. The land of these townships is valuable principally for grazing purposes.

March 4<sup>th</sup> 1911

Jan L. White  
U.S. Measurer

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~~U.S. TRANSITMAN~~  
**FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.**

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LIST OF NAMES.

A list of the names of the individuals employed by Van L. White

U.S. Transitman, ~~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 3rd Guide Meridian E. through Tps 31 N. bet. Rs 12 and 13 E. showing the respective capacities in which they acted: of the G. & S. R. Base & Mer., Arizona.

George B. Seig and T. Y. White Chainmen.

Nelson Polacca and Richard L. Shumway Chainmen.

Harry Keyope Moundman.

Moundman.

Asman.

Asman.

William R. Carson Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Van L. White

U.S. Transitman, ~~United States Deputy Surveyor~~, in surveying all those parts or portions of the 3rd Guide Meridian E. through Tps 31 N. bet. Rs 12 and 13 E.

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 ~~surveyed~~ <sup>executed</sup> and the corner monuments established, according to the instructions furnished by the ~~United States Surveyor~~

~~General or~~ Commissioner of the General Land Office.

George B. Seig and T. Y. White Chainmen.

Nelson Polacca and Richard L. Shumway Chainmen.

Moundman.

Harry Keyope Moundman.

Asman.

Asman.

William R. Carson Flagman.

Subscribed and sworn to before me this 15<sup>th</sup>  
day of May, 1911



Van L. White  
U.S. Transitman

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TRANSITMAN  
FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Van L. White, Transitman, United States Deputy Surveyor, do solemnly swear that, in pursuance of a Special Instructions contract received from the Commissioner of the United States Surveyor General for General Land Office, bearing date of the 2<sup>nd</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 Surveyor of the General Land Office, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of the Third Guide Meridian East through Township No. 31 North between Ranges No. 12 and 13 East

of the Gila and Salt River Base and 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 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 survey.

Van L. White  
United States Deputy Surveyor  
Transitman

Subscribed by said Van L. White, and sworn to before me }  
this 27<sup>th</sup> day of December, 1912



Lytton R. Taylor  
U.S. Commissioner  
at Las Cruces, N.M.

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Phoenix Arizona APR 25 1914

The foregoing field notes of the survey of the  
3rd Guide Meridian East thru Tps. 31 N. bet. Rs. 12 & 13 E. of the  
Gila and Salt River Base & Meridian, Arizona.

executed by Van L. White, U.S. Transitman  
under Special Instructions from the Commissioner of the General Land Office  
its contract No. 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.