

Exterior  
BOOK "F"

FIELD NOTES

OF THE SURVEY OF THE

*East boundary of T. No. 25 N., R. 18 E.*

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

*in the Territory of Arizona*

EXECUTED  
AS SURVEYED BY

*Sidney E. Bloush*

*Examiner of Surveys*

United States ~~Deputy Surveyor~~

*Special Instructions from the Commissioner of the General Land Office*  
Under ~~his~~ *Contract No.* \_\_\_\_\_, dated *Ceb. 2<sup>nd</sup> 1907. and May 15<sup>th</sup> 1908.* ~~190~~

Survey commenced *April 7<sup>th</sup>* 1910., ~~190~~

Survey completed *April 7<sup>th</sup>* 1910., ~~190~~

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BOOK 2533

NAMES AND DUTIES OF ASSISTANTS.

Sam L. White Comptroller

Frederic L. Warner Chairman

P. V. White Chairman

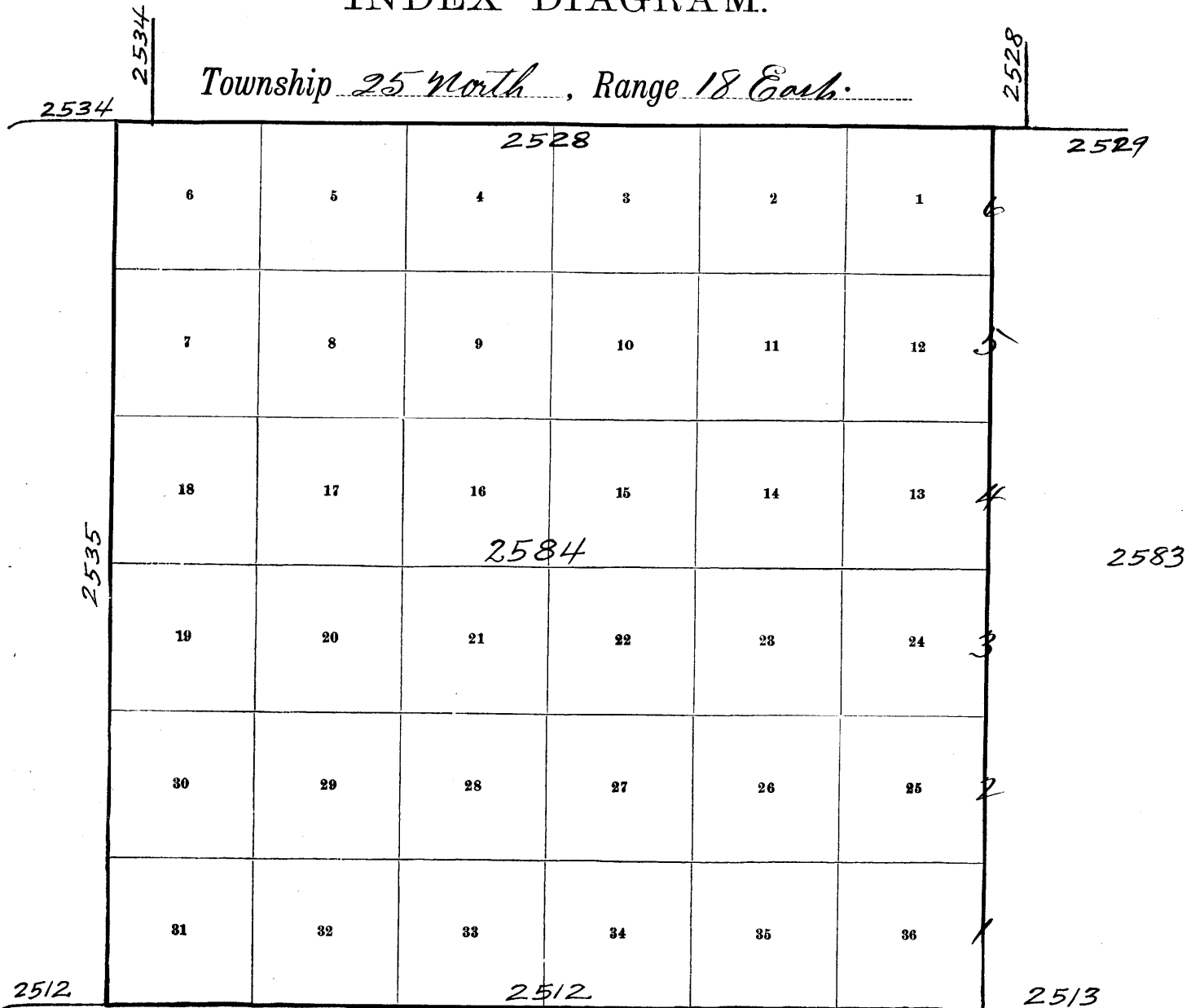
Ralph C. Sampson Member

William B. Carson Flagman

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INDEX DIAGRAM.

Township 25 North, Range 18 East.



6th Standard Parallel North  
Meanders Page

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PRELIMINARY OATHS OF ASSISTANTS.

We, Fred L Warner and J. Y. White

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 East boundary of Twp. No. 25 N., Range No. 18 E. ash of the G. & S. R. Base & Meridian, Arizona.

Fred L Warner, Chainman.

J. Y. White, Chainman.

Subscribed and sworn to before me this 6<sup>th</sup> day of April, 1910, ~~190~~



Sidney E. Blous  
U.S. Examiner of Surveys

~~We~~, D. Ralph C. Sampson and \_\_\_\_\_

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

The East boundary of Twp. No. 25 N., Range No. 18 East of the G. & S. R. Base & Meridian, Arizona.

Ralph C. Sampson, Moundman.

\_\_\_\_\_, Moundman.

Subscribed and sworn to before me this 6<sup>th</sup> day of April, 1910, ~~190~~



Sidney E. Blous  
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

\_\_\_\_\_

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

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

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



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 East boundary of Twp. No. 25 N., Range No. 18 East of the G. & S. R. Base & Meridian, Arizona.

William R. Carson Flagman.

Subscribed and sworn to before me this 6<sup>th</sup> day of April, 1910, ~~190~~



Sidney E. Blous  
U.S. Examiner of Surveys

Survey Commenced April 7<sup>th</sup> 1910 and executed with a W. and L. E. Gurley 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.

Examine the adjustments of the transit and find them correct. and know from recent test 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 began at the Standard Cor. of Np. 25 N. R 18 and 19 E.

(described in Standard Book "F")  
which I established March 21<sup>st</sup> 1910. Latitude 35° 30' 35" N. Longitude 110° 22' 12" W.

April 7<sup>th</sup> 1910. At 7:30<sup>am</sup> set off 35° 30' 1/2" N. on the lat. arc 6° 40' N. on the decl. arc. and determine a meridian with the solar at the above mentioned Cor. Thence I run,

North, bet. Secs. 31 and 36.

Ascend S.E. slope over rolling sand hills. through scattering sage and greasewood bush undergrowth and bunch grass

10.00 Top of sand ridge bears N.E. and S.W. desc. NW. slope

22.00 Dry ravine course NW. asc. Enter scattering cedar timber. bears N.E. and S.W.

30.00 Top of ridge bears N.E. and S.W. desc.

40.00 Behave like a poth. 3ft long 1 in. in diam, 26 ins in the ground for 1/4 sec. Cor. marked on base cap 1/4 S 36 on W. half and S 31 on E. half. from which. A cedar 9 ins. in diam. bears S 60° E 77 lbs. dist. marked 1/4 S 31 B.T.

A cedar 12 ins. in diam bears N 67 1/4° W 45 lbs. dist. marked 1/4 S 36 B.T.

58.30 Dry sand wash. 60 lbs wide 2ft deep course S 40° W.

63.78 Road from Hester Nez's house to Omar Spring bears N 80° E and S 80° W.

67.00 Dry ravine 15 lbs. wide course S 40° E.

71.50 Peak of ridge bears N 40° E and S 40° W.

73.50 The same ravine in bend from N.W. to S.W. bears hilly sandy land bears N.W. and S.E., Enter stony mountains

BOOK 2533

- land bears NW. and S.E. ascend abruptly over S.W. slope of Malapai Butte
- 80.00 Set a Basalt stone 20 x 16 ins, 16 ins in the ground for cor. of secs. 25, 30, 31 and 36, marked with 5 notches on N. and 1 notch on S. edges. from which.
- A cedar 12 ins. in diam bears N 14 1/2° E 209 lks. dist. marked T 25 N. R 18 E. S 30 B.T.
- A cedar 12 ins in diam. bears S 30 1/4° E 237 lks. dist. marked T 25 N. R 18 E. S 31 B.T.
- A cedar 15 ins. in diam bears S 18° W 147 lks. dist. marked T 25 N. R 18 E S 36 B.T.
- A cedar 13 ins. in diam. bears N 73 1/2° W 130 lks. dist. marked T 25 N. R 18 E. S 25 B.T.
- Remains mound of stone 2 ft. base, 1 1/2 ft. high. W. of cor. <sup>pts. unrecognizable</sup> and. hilly and mountainous.
- Soil sandy and stony 3<sup>rd</sup> and 4<sup>th</sup> rate.
- Timber Cedar
- Mountainous land 6.50 lks.
- 
- North, bet. secs. 25 and 30,  
ascend S.W. slope of Malapai Butte over stony mountainous land, through scattering cedar timber and bunch grass.
- 3.00 Leave timber bears E and W.
- 13.80 Top of ascent on cliffs 200 ft. above cor. thence over W. slope of Butte.
- 20.75 North edge of cliffs. 30 ft. high. bears NE. and SW. desc.
- 25.00 Foot of cliffs on divide between ravines bears N 70° W and S 70° E. ascend NE. slope over broken stony land ridges and ravines.
- 30.00 Enter scattering cedar timber bears NW. and S.E.
- 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 bears Cap. 1/4 S 25 on W. half and S 30 on E half, from which.
- A cedar 5 ins. in diam. bears S 42° E 26 lks. dist. marked 1/4 S 30 B.T.
- A cedar 5 ins. in diam. bears S 72 1/4° W 106 lks. dist. marked 1/4 S 25 B.T.
- 53.00 Dry ravine 20 lks. wide course NW. asc.
- 54.00 Top of spur 25 ft. above ravine bears E and W. desc.
- 58.00 The same ravine course NE.

- 64.80 The same ravine course NW. asc.
- 73.00 Top of stony spur 30 ft. above ravine bears E. and W. desc.
- 78.25 Dry ravine 20 lks. wide course W. around S. slope
- 80.00 Set an iron post 3 ft. long 3 ins. in diam. in draw, 24 ins. in the ground for cor. of sec. 19, 24, 25 and 30, marked on brass cap T 25 N. in N. half. R 18 E S 24 in N.W., R 19 E S 19 in N.E. S 30 in S.E. and S 25 in S.W. quadrants from which.
- A cedar 8 ins. in diam. bears N 76 $\frac{3}{4}$ ° E 81 lks. dist. marked T 25 N. R 19 E S 19 B.T.
- A cedar 6 ins. in diam. bears S 7 $\frac{1}{2}$ ° E 93 lks. dist. marked T 25 N. R 19 E S 20 B.T.
- A cedar 8 ins. in diam. bears S 58 $\frac{3}{4}$ ° W 149 lks. dist. marked T 25 N. R 18 E S 25 B.T. and
- A cedar 10 ins. in diam. bears N 80° W 64 lks. dist. marked T 25 N. R 18 E S 24 B.T.
- Land mountainous.
- Soil sandy and stony 3<sup>rd</sup> and 4<sup>th</sup> rates.
- Timber Cedar.
- Mountainous land 80.00 Chs.
- 
- North ch. sec. 19 and 24.
- Around abrupt rocky S.E. slope over mountainous land through scattering cedar timber.
- 11.60 Top of spur bears N.E. and S.W. leave mountainous land bears N.E. and S.W. Enter rolling land
- 22.50 Leave rolling land bears N.E. and S.W. Enter mountainous land. bears N.E. and S.W. descend steep NW. slope.
- 40.00 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 24 on W. half and S 19 on E half. from which.
- A cedar 8 ins. in diam. bears S 34 $\frac{1}{2}$ ° E 64 lks. dist. marked  $\frac{1}{4}$  S 19 B.T.
- A cedar 8 ins. in diam. bears S 18 $\frac{3}{4}$ ° W. 40 lks. dist. marked  $\frac{1}{4}$  S 24 B.T.
- 40.50 Dry ravine course N.E. asc., leave timber bears N.E. and S.W.
- 46.50 Top of rocky spur 20 ft. above ravine bears N.E. and S.W. desc.
- 58.00 Dry ravine 10 lks. wide course NW. asc. abruptly.
- 63.90 Top of rocky spur bears E. and W. desc. N. slope. Enter cedar timber. bears E. and W.
- 80.00 Set an iron post 3 ft. long 3 ins. in diam. 24 ins. in

## East boundary of Twp 25 N., R 18 E.

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Chain

the ground for cor. of sec. 13, 18, 19 and 24, marked on  
Bear Cap T 25 N. in N. half, R 18 E S 13 in N.W. R 19 E.  
S 18 in N.E. S 19 in S.E. and S 24 in S.W. quadrants.  
from which.

A cedar 6 ins. in diam. bears N  $77\frac{1}{4}^{\circ}$  E 213 lks. dist.  
marked T 25 N. R 19 E S 18 B.T.

A cedar 7 ins. in diam. bears S  $27\frac{1}{4}^{\circ}$  E 60 lks. dist.  
marked T 25 N. R 19 E S 19 B.T. and

A cedar 12 ins. in diam bears S  $43^{\circ}$  W 24 lks. dist.  
marked T 25 N. R 18 E S 24 B.T. No other trees available.

Raise a mound of stone 2 ft. base,  $1\frac{1}{2}$  ft. high. W of cor.  
Pike impracticable.

Land rolling and mountainous.

Soil sandy and stony.

Timber Cedar.

Mountainous land 69, 10 lks.

NOTE Ob. this cor. Drek off.  $6^{\circ} 43\frac{1}{2}'$  N. on the decl. arc and  
at noon observe the sun on the meridian and  
obtain a reading of  $35^{\circ} 33'$  N. on the latitude arc.

North, Sec. 13 and 18.

Descend abrupt rocky N. slope over mountainous land  
through scattering cedar timber and bunch grass

6.12 Dry ravine 5 ft. below cor. course N.W. base.

7.20 Top of spur 30 ft. above ravine bears N.W. and S.E. desc.

21.33 Road leads from Navajo Hogans. to Spring in sec.  
18.

22.00 Foot of descent in dry sand wash 10 lks. wide 2 ft.

deep course N.W. Leave mountainous land bears E and  
W. Enter rolling sandy land bears E and W.

40.00 Set an iron post 3 ft. long 1 in. in diam. 26 ins. in the  
ground for  $\frac{1}{4}$  sec. cor. marked on bear cap  $\frac{1}{4}$  S 13 on W  
half and S 18 on E half. from which.

A cedar 6 ins. in diam. bears S  $50\frac{1}{4}^{\circ}$  E 183 lks. dist.  
marked  $\frac{1}{4}$  S 18 B.T. and

A cedar 4 ins. in diam bears S  $41^{\circ}$  W 166 lks. dist.  
marked  $\frac{1}{4}$  S 13 B.T.

45.00 Leave timber bears N.W. and S.E.

48.00 Road from Polacca Arizona to Spring in sec. 18 T 25  
N. R 19 E. bears N.W. and S.E.

50.00 Dry sand wash 75 lks wide 6 ft. deep course N.W.



## East boundary of Twp 25 N. R 18 E.

Chains

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- Ascend over S.W. slope of Malapi butte.  
63.00 Pop of ascent on W. slope of butte descend over N.W. slope.
- 80.00 Set an iron post 3 ft. long 3 ins. in diam. 24 ins. in the ground for cor. of sec. 7, 12, 13 and 18. marked on brass cap T 25 N. in N. half. T 18 E S 12 in N.W., T 19 E S 7 in N.E., S 18 in S.E. and S 13 in S.W. quadrant.  
Raise a mound of stone 2 ft. base, 1 1/2 ft. high W. of cor. Pile impracticable  
Land rolling and mountainous.  
Soil sandy and stony 3<sup>rd</sup> and 4<sup>th</sup> rates.  
Timber, Cedar  
mountainous land, 45.00 chs.
- 
- North ch. sec. 7 and 12.  
Descend N.W. slope of Malapi butte over rolling land through scattering sage brush undergrowth and bunch grass.  
19.00 Dry sand wash, 30 lbs. wide 2 ft. deep. course N 80° W. descend S.W. slope.  
19.40 Enter scattering cedar timber bear E and W.  
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 12 on W. half and S 7 on E half. from which  
A Cedar 8 ins. in diam bear N 78 3/4° E 115 lbs. dist marked 1/4 S 7 B.T.  
A Cedar 5 ins. in diam bear S 45 3/4° W 179 lbs. dist. marked 1/4 S 12 B.T.  
50.00 Leave timber bear E and W.  
65.00 Leave rolling sandy land bear N 80° E and W. Enter stony mountainous land bear N 80° E and S 80° W ascend steep S.E. slope of Malapi butte.  
70.00 Pop of spur bear E and W. Extends E. of line 8.00 chs. dist. desc. N slope.  
79.55 Dry ravine course E. ascend.  
80.00 Set an iron post 3 ft long 3 ins. in diam. 24 ins. in the ground for cor. of sec. 1, 6, 7 and 12. marked on brass cap T 25 N. in N. half., T 18 E S 1 in N.W., T 19 E S 6 in N.E. S 7 in S.E. and S 12 in S.W. quadrant.  
Raise a mound of stone 2 ft. base, 1 1/2 ft. high W. of cor.

## East boundary of Tps 25 N. R 18 E.

6 Chains

Pits impracticable.  
 Land rolling and mountainous.  
 Soil sandy and stony 3<sup>rd</sup> and 4<sup>th</sup> rate.  
 Timber Cedar  
 Mountainous land. 15.00 Chs.  
 This cor. is situated on top of spur, bears E. and W.

North, bet. sec. 1 and 6,  
 Descend N.E. slope of malpais butte over stony mountainous  
 land through scattering sage brush, undergrowth and  
 bunch grass.

10.00 Foot of steep descent. Leave mountainous land bears  
 N50W, and S50°E. Enter rolling sandy land  
 bears NW, and SE.

40.00 Set an iron post 3ft. long 1 in. in diam. 26 ins in the  
 ground for  $\frac{1}{4}$  sec. cor. marked on base cap  $\frac{1}{4}$  S10W W.  
 half and S60W E. half.

Dig pits 18x18x12 ins N and S. of post. 8ft. dia. and raise  
 a mound of earth 3 $\frac{1}{2}$  ft. base, 1 $\frac{1}{2}$  ft. high. W. of cor.

81.80 Intersect No. ldy. of Tps. 8.00 Chs. West of the cor. of  
 Tps. 25 and 26 N. R's 18 and 19 E, established by me June 17, 1908,  
 as described in Exterior Book "A"  
 Set an iron post 3ft. long. 3 ins. in diam. 24 ins. in  
 the ground for closing cor. of Tps. 25 N. R's 18 and  
 19 E. marked on base cap. T 26 N. R 18 E S 36, T 19 E S 31  
 in N. half. C.C. T 25 N. in S. half. T 19 E S 6 in SE. and  
 T 18 E S 1 in S.W. quadrant.

Dig pits 30x24x12 ins. Crosswise on each line. Band W  
 4 ft. and S. of post. 8ft. dia. and raise a mound of earth  
 5ft. base 2 $\frac{1}{2}$  ft. high. S. of cor.

I change the cor. of Tps 25 and 26 N. R's 18 and 19 E.  
 from a cor. com. now to 4 Tps, <sup>as described in Exterior Book "A"</sup> to a cor. com. now  
 to Tps 26 N. R's 18 and 19 E.

Land rolling and mountainous.  
 Soil sandy and stony, 2<sup>nd</sup> 3<sup>rd</sup> and 4<sup>th</sup> rate.  
 No timber  
 Mountainous land. 10.00 Chs

April 7<sup>th</sup> 1910.

Latitudes Departures and Closing Errors

Line Designated	COURSE	DIST.	Latitudes		Departures	
			N	S	E	W
South Boundary (6 <sup>th</sup> Stand Per. North)	N. 89° 40' W.	119.85	.70			119.85
	N. 89° 50' W.	39.96	.11			39.96
	N. 89° 53' W.	319.68	.65			319.68
West boundary	North	480.04	480.04			
North	S. 89° 56' E	7.73			7.73	
"	East.	471.49			471.49	
East	South	481.80		481.80		
Closing error					51.	
Totals.			481.50	481.80	479.73	479.49
				481.50	479.49	
			Error in Latitude		0.30	
					Error in Departure 0.24	

— Sidney E. Blout —  
U. S. Examiner of Surveys.

U.S. EXAMINER OF SURVEYS  
FINAL OATHS OF ~~DEPUTY SURVEYOR~~ AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by Sidney E. Bloush  
Examiner of Surveys  
~~Deputy Surveyor~~, 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 Twp. 25 N., Range No. 18 E. of the G. & S. R. Base & Meridian,  
Arizona.  
showing the respective capacities in which they acted

- Fred L. Warner Van L. White Compassman Chainman.
- J. Y. White Chainman.
- Ralph C. Sampson Moundman.
- ~~Moundman.~~
- ~~Aaman.~~
- ~~Aaman.~~
- William R. Carson Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Sidney E. Bloush  
Examiner of Surveys  
~~Deputy Surveyor~~, United States ~~Deputy Surveyor~~, in surveying all

those parts or portions of the East boundary of Twp. No. 25 N., Range No. 18 E. 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 <sup>executed</sup> surveyed, and the corner monuments established, according to the instructions furnished by the ~~United States Surveyor~~ Commissioner

- ~~General for~~ of the General Land Office Van L. White, Compassman
- Fred L. Warner Chainman.
- J. Y. White Chainman.
- Ralph C. Sampson Moundman.
- ~~Moundman.~~
- ~~Aaman.~~
- ~~Aaman.~~
- William R. Carson Flagman.

Subscribed and sworn to before me this 28<sup>th</sup>  
day of July 1910, ~~190~~

Sidney E. Bloush  
U.S. Examiner of Surveys



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BOOK 2533

EXAMINER OF SURVEYS  
FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Sidney E. Blout, <sup>Examiner of Surveys</sup> United States ~~Deputy Surveyor~~, do solemnly swear that, in pursuance of ~~a contract~~ <sup>Special Instructions</sup> received from the ~~United States Surveyor General for the~~ <sup>Commissioner of the General Land Office</sup>, bearing date of the ~~2<sup>nd</sup> day of Oct. 1907~~ <sup>and the 15<sup>th</sup> day of May, 1908</sup>, 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 the General Land Office~~ <sup>Commissioner</sup>, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of The East boundary of Twp No. 25 N. Range No. 18 East.

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 General for the General Land Office~~ <sup>Commissioner</sup>, and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

*See*  
Sidney E. Blout

United States Deputy Surveyor,  
Examiner of Surveys.

Subscribed by said Sidney E. Blout, and sworn to before me }  
this \_\_\_\_\_ day of \_\_\_\_\_, 190



APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Phoenix, Arizona APR 25 1914

The foregoing field notes of the survey of the

East boundary of

Township No 25 North, Range No 18 East

of the Gila and Salt River Base and Meridian, Arizona

executed by Sidney E. Blout, U.S. Examiner of Surveys, under ~~his contract No.~~ <sup>Special Instructions from the Commissioner of the General Land Office</sup>, 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 S. 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.