

Original Book 15-9

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BOOK 2168

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JUN 12 1909

Accepted, Letter E. May 11/0.

B. k. N.

# FIELD NOTES

OF THE SURVEY OF THE

2168

2168

West and frac. North bdrs. T 18 S. R 32 E.

Resurvey of part of South bdy. T 18 S. R 32 E.

Resurvey of portions of S. and E. bdrs. T 17 S. R 31 E.

2168

Of the Gila & Salt River Base & Meridian,

Arizona

AS SURVEYED BY

Jesse B. Wright, United States Deputy Surveyor,

Under his Contract No. 154, dated February 9, 1909

Survey commenced June 26, 1909

Survey completed June 30, 1909

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## NAMES AND DUTIES OF ASSISTANTS.

Levi J. Stover Chainman

William Cuck "

Lee English Moundman

Frank Sanford "

Joseph Tompkins Axeman

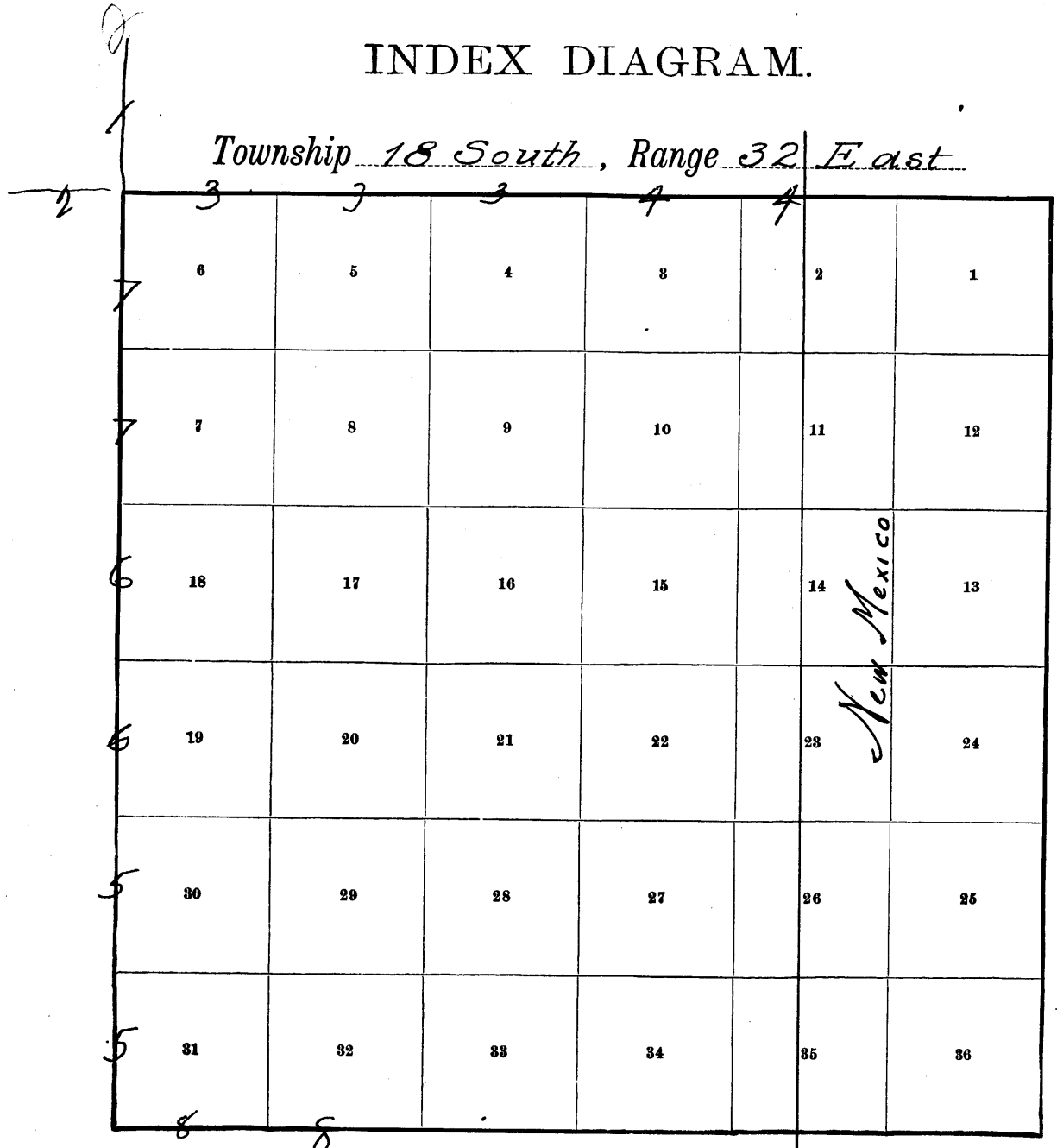
James McArthur "

Berron Cick Flagman

BOOK 2168

INDEX DIAGRAM.

Township 18 South, Range 32 East



Meanders Page \_\_\_\_\_

PRELIMINARY OATHS OF ASSISTANTS.

WE, Levi J. Stover and William Click  
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 Boundaries of Tp. 18 S. R. 32 E.

Levi J. Stover, Chairman.

William Click, Chairman.

Subscribed and sworn to before me this 26<sup>th</sup>  
day of June, 1909



Jesse B. Wright  
U.S. Deputy Surveyor.

WE, Lee English and Frank Sanford  
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 Boundaries of Tp. 18 S. R. 32 E.

Lee English, Moundman.

Frank Sanford, Moundman.

Subscribed and sworn to before me this 26<sup>th</sup>  
day of June, 1909



Jesse B. Wright  
U.S. Deputy Surveyor.

WE, Joseph H. Tompkins and James McAlester  
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 Boundaries of Tp. 18 S. R. 32 E.

Joseph H. Tompkins, Axman.

James McAlester, Axman.

Subscribed and sworn to before me this 26<sup>th</sup>  
day of June, 1909



Jesse B. Wright  
U.S. Deputy Surveyor.

I, Bertram Click, 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 Boundaries of Tp. 18 S. R. 32 E.

Bertram Click, Flagman.

Subscribed and sworn to before me this 27<sup>th</sup>  
day of June, 1909



Jesse B. Wright  
U.S. Deputy Surveyor.

Resurvey of frac. East Boundary of T. 17 S. R. 31 E.

Chains

Survey commenced June 26, 1909, and executed with a Young & Son's light mountain transit No. 6492, with Smith patent solar attachment on side.

The horizontal limb of the instrument is provided with two double verniers placed opposite to each other and each reading to 1' of arc, which is also the least reading of the latitude and declination arcs.

Being unable to find the Cor. of Tps. 17 & 18 S., Rs. 31 & 32 E., I begin at the cor. of Secs. 25, 30, 31 & 36 on E. Bdy. of T. 17 S. R. 31 E., which is a granite stone 14x10x10 ins. above ground, marked and witnessed as described by the Surveyor General.

At this cor. I examine and test the levels, the line of collimation, and the standards of the instrument, and also the latitude arc of the solar, and find same correct.

At noon, I also test the declination arc and hour circle of the solar, and find same correct.

Finding all parts of the instrument in satisfactory adjustment as to tests, in order to test the solar apparatus by comparing the results of observations for meridians made during a.m. & p.m. hours with a true meridian determined by Polaris observations, I proceed as follows :-

At 3h p.m., l.m.t., at the cor. above described, I set off 23° 23' N. on the decl. arc and 31° 55' N. on the lat. arc and determine a meridian with the solar and mark the meridian thus determined by a tack in a stake driven in the ground 6 chs. N. of my station.

June 27, 1909.

At 1h 11m a.m., l.m.t., I observe Polaris at E. elong. in accordance with instructions in the "Manual" and mark the line thus determined by a nail driven in a tree 6 chs. North of My station.

At 7h a.m., l.m.t., I set off the azimuth of polaris 1° 23' to the W. and mark the true meridian thus determined by a tack in the stake 6 chs. N. of my station, which point falls, .20 ins. W. of the line given by the solar on preceding evening.

Then I set off 23° 21½' N. on the decl. arc and 31° 55' N. on the lat. arc and determine a meridian with the solar, which gives a line .20 ins. W. of the point on the stake 6 chs. N. of my station as determined by Polaris observations.

The solar apparatus by a.m. & P.m. observations defines positions for meridians respectively about 9" W. and 9" E. of the meridian determined by observations on Polaris.

These errors being evidently less than the usual errors of observation, I conclude that the instrument is in satisfactory adjustment.

The magnetic bearing of the true meridian at 7h a.m., is N. 13° 20' W.

The angle thus determined gives the magnetic declination as 13° 20' E.

From the above described cor. I run, South, bet. secs. 31 & 36, as per field notes furnished by the Surveyor General. Over rolling land, through dense mesquite brush.

- ✓ .80 Stream from Cieniga 20 lks. wide, flows E.
  - 20.00 Leave dense mesquite, begin steep ascent over rough limestone ledges, with great difficulty.
  - 33.40 Top of rocky limestone ridge, brs. E. & W. desc. steep.
  - 40.00 Find faint traces of orig. ¼ sec. cor. on line. To re-establish this cor. at orig. cor. point I Set a granite stone 15x10x8 ins. on bed rock, in mound of stone for ¼ sec. cor. marked ¼ on W. face and raise a mound of stone 2 ft. base 1½ ft. high W. of cor.
- No bearings available.

## Resurvey of frac. East Boundary of T. 17 S. R. 31 E.

Chains	
54.00	Gulch 50 lks. wide, course SE.
57.00	Telephone line from Rodeo, N.M. to Paradise, Ariz. brs. NW. & SE.
59.80	Gulch 30 lks. wide, course E. asc. steep.
66.00	Point of ridge, brs. E. & W. desc. over loose, stony ground.
74.00	Gulch 30 lks. wide, course E. asc.
77.00	Point of ridge, brs. E. & W. desc.
80.00	No trace of original cor. of Tps. 17 & 18 S. Rs. 31 & 32 E. found after diligent search. To re-establish this cor. I Set a granite stone 24x20x12 ins. 6 ins. in ground to bedrock in mound of stone for cor. of Tps. 17 & 18 S. Rs. 31 & 32 E., marked with 6 notches on each edge and raise a mound of stone 4 ft. base 3 ft. high S. of cor. No bearings available, pits impracticable. Land, rolling, mountainous. Soil, 3rd rate, stony, gravelly. Timber, mesquite, few oak in canyons. Undergrowth, mesquite, ocotillo, palmeo. Mts. land or land covered with dense undergrowth and exceptionally difficult to survey, --- 80.00 chs.

## Resurvey of frac. S. Bdy. T. 17 S., R. 31 E.

	To further verify the correct re-establishment of this cor. I run thence, West, bet. secs. 1 & 36. Over broken mts. land, covered with loose rock, with great difficulty. ascend.
35.00	Desc. steep E. side of Canyon.
40.00	Find evidence remains of orig. $\frac{1}{4}$ sec. cor., which I re-establish, Set a granite stone 20x12x10 ins. 15 ins. in ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N. face and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high N. of cor. No bearings available. Pits impracticable. Land, mts. Soil, 3rd rate, stony. Timber, scattering oak. Undergrowth, mesquite, scrub oak. Mts. land exceptionally difficult to survey, 40.00 chs.

I return to the Cor. of Tps. 17 & 18 S. Rs. 31 & 32 E. as  
reestablished by me, and at noon,  
I set off  $23^{\circ} 20\frac{1}{2}'$  N. on the decl. arc and observe  
the sun on the meridian.  
The resulting lat. is  $31^{\circ} 54'$  N. ✓

North Boundary of fractional T. 18 S. R. 32 E.

Chains	
	From the cor. of Tps. 17 & 18 S. Rs. 31 & 32 E. as established by me and heretofore described, I run,, As per instructions, East, bet. secs. 6 & 31. Var. 13° 20' E.
4.00	Over mts. land, desc. over very stony ground.
5.00	Enter oak timber, brs. NE. & SW.
15.00	Enter wash, course NE.
15.00	Leave wash and oak timber,.
40.00	Set a sandstone 20x12x4 ins. 15 ins. in ground for 1/4 sec. cor. marked 1/4 on N. face and raise a mound of stone 2 ft. base 1 1/2 ft. high N. of cor. No bearings available.
45.00	Telephone line Rodeo, N.M. to Paradise, Arizona, brs. NW. & SE. Foot of main slope, enter dense mesquite, brs. N. & S.
72.00	Wash 20 lks. wide, course SE.
73.25	Wire fence, brs. N. 18 3/4° W. & S. 18 3/4° E. Leave pasture of San Simon Cattle Co.
80.00	Set a granite stone 24x10x10 ins. 18 ins. in the ground for Cor. of secs. 5, 6, 31 & 32, marked with 1 notch on W. & 5 notches on E. edges and raise a mound of stone 2 ft. base 1 1/2 ft. high W. of cor. No bearings available. Pits impracticable. Land, Mts. Soil, 2nd & 3rd rate, stony, gravelly. Timber, Oak. Undergrowth, mesquite, tesseta. Mts. land or land covered with dense undergrowth, 80.00 chs.
	East bet. secs. 5 & 32. Over rolling land, desc. grad. through dense mesquite brush.
17.25	Wash 20 lks. wide, course SE.
27.85	Old road, brs. NW. & SE.
40.00	Set a granite stone 20x12x10 ins. 15 ins. in ground for 1/4 sec. cor. marked 1/4 on N. face and raise a mound of stone 2 ft. base 1 1/2 ft. high N. of cor. No bearings available. Pits impracticable. Leave mesquite, brs. N. & S., desc. grad.
46.00	Main road, Rodeo to Paradise, brs. NW. & SE.
49.00	Wash 30 lks. wide, course SE.
80.00	Set a granite stone 24x12x6 ins. 18 ins. in ground for cor. of secs. 4, 5, 32 & 33, marked with 2 notches on W. & 4 notches on E. edges and raise a mound of stone 2 ft. base 1 1/2 ft. high W. of cor. No bearings available. Land, rolling. Soil, 2nd & 3rd rate, gravelly, sandy. No timber. Undergrowth, mesquite. Land covered with dense undergrowth, 40.00 chs. Rolling land, -----, 40.00 chs.
	East bet. secs. 4 & 33, Over rolling land desc. grad. through scattering mesquite and navajo brush.
40.00	Set a granite stone 20x12x10 ins. 15 ins. in ground for 1/4 sec. cor. marked 1/4 on N. face and raise a mound of stone 2 ft. base 1 1/2 ft. high N. of cor. No bearings available.
80.00	Set a granite stone 14x12x8 ins. 10 ins. in ground for Cor. of secs. 3, 4, 33 & 34, marked with 3 notches on E. & W. edges and raise a mound of stone 2 ft. base 1 1/2 ft. high W. of cor. No bearings available. Land, rolling. Soil, 2nd & 3rd rate, sandy, gravelly. No timber. Undergrowth, mesquite, Navajo brush. Rolling land, 80.00 chs.

North Boundary of T. 18 S. R. 32 E.

Chains

East bet. secs. 3 & 34.  
Over rolling land, desc. grad.

40.00 Set a limestone 24x15x12 ins. 18 ins. in ground for  $\frac{1}{4}$  sec. cor. marked  $\frac{1}{4}$  on N. face and raise a mound of stone 2 ft. base  $\frac{1}{2}$  ft. high N. of cor.  
No bearings available.

80.00 Set a granite stone 24x14x10 ins. 18 ins. in ground for cor. of secs. 2, 3, 34 & 35, marked with 4 notches on W. and 2 notches on E. edges and raise a mound of stone 2 ft. base  $\frac{1}{2}$  ft. high W. of cor.  
No bearings available.

Land, rolling.  
Soil, 2nd & 3rd rate, gravelly.  
No timber. Undergrowth, mesquite, Navajo brush.  
Rolling land, ----- 80.00 chs.

East bet. secs. 2 & 35.  
Over level land,

21.44 Through dense mesquite and navajo brush.  
Intersect E. Bdy. of Arizona at point whence,  
351 mile cor. brs. N. 44.75 chs. } Both mons. are stones  
352 mile cor. brs. S. 35.25 chs. } mkd. as described by Sur. Gen.

Set a granite stone 24x14x10 ins. 18 ins. in ground for Closing cor. of Tps. 17 & 18 S. R. 32 E., marked,  
C.C., Ariz. on W.

N.M. on E., with  
6 notches on N., S., & W., faces, and raise a mound of stone 2 ft. base  $\frac{1}{2}$  ft. high W. of cor.

Land, level,  
Soil, 3rd rate, sandy, gravelly.  
No timber. Undergrowth, dense mesquite and navajo brush.

Land covered with dense undergrowth, 21.44 chs.  
June 27, 1909.



## West Boundary of T. 18 S. R. 32 E.

Chains

- June 28, 1909.
- At 7h a.m., l.m.t. I set off  $23^{\circ} 19\frac{1}{2}'$  N. on the dec. arc and  $31^{\circ} 54'$  N. on the lat. arc and determine a true meridian with the solar at the cor. of Tps. 17 & 18 S. Rs. 31 & 32 E. as heretofore described.
- Thence I run, as per instructions, South, on a random line on W. bdy. of Tp., setting temp. sec. &  $\frac{1}{4}$  sec. cors. at intervals of 40 and 80 chs.
- At 5 miles, 53.00 chs.
- Intersect E. & W. line at point 15 lks. W. of cor. of Tps. 18 & 19 S. Rs. 31 & 32 E., which is a granite stone  $12 \times 10 \times 8$  ins. above ground marked and witnessed as described by the Surveyor General.
- As this cor. is in a very dilapidated condition and the markings almost obliterated, I destroy same and at orig. Cor. point, I
- Set a granite stone  $30 \times 15 \times 12$  ins. 10 ins. in ground to bedrock in mound of stone for cor. of Tps. 18 & 19 S. Rs. 31 & 32 E., arked with 6 notches on each edge and raise a mound of stone 4 ft. base 4 ft. high S. of cor.
- No bearings available. Pits impracticable.
- From this cor. I run,  
N.  $0^{\circ} 1'$  W. on a true line on W. bdy. of T. 18 S. R. 32 E. bet. secs. 31 & 36.
- Over mts. land asc. very steep over loose rock. with great difficulty.
- 13.00 Set a granite stone  $20 \times 10 \times 10$  ins. 15 ins. in 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.
- No bearings available. Pits impracticable.
- 15.80 Top of rough rocky ridge, brs. E. & W. desc. steep.
- 25.00 Box canyon, 3 chs. wide, course E.
- Ascend through heavy oak timber.
- 53.00 Set a granite stone  $24 \times 15 \times 10$  ins. 18 ins. in ground for cor. of secs. 25, 30, 31 & 36, marked with 1 notch on S. & 5 notches on N. edges and raise a mound of stone 3 ft. base 3 ft. high W. of cor. from which,  
An oak tree 12 ins. diam. brs. N.  $47^{\circ}$  W. 73 lks. dist.,  
marked T. 18 S. R. 31 E. S. 25 B.T.
- No other bearings available. Pits impracticable.
- Land, mts. very rough.  
Soil, 2nd & 3rd rate, stony.  
Timber, oak.  
Undergrowth, scrub oak, mesquite, ocotillo, palmeo.  
Mts. land exceptionally difficult to survey, 53.00 chs.
- 
- N.  $0^{\circ} 1'$  W. bet. secs. 25 & 30. Over mts. land,  
Desc. along NE. slope over very rough stony ground with great difficulty. through medium oak timber.
- 24.00 Rocky gulch 50 lks. wide, course ESE.
- 40.00 Set a granite stone  $18 \times 12 \times 10$  ins. 12 ins. in 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. from which,  
An oak tree 24 ins. diam. brs. N.  $80^{\circ}$  E. 58 lks. dist.,  
marked  $\frac{1}{4}$  S. 30 B.T.  
An oak tree 12 ins. diam. brs. N.  $26\frac{1}{2}^{\circ}$  W. 100 lks. dist.,  
marked  $\frac{1}{4}$  S. 25 B.T.
- 80.00 Foot of main slope.
- Set a granite stone  $30 \times 12 \times 10$  ins. 10 ins. in ground to bedrock in mound of stone for cor. of secs. 19, 24, 25 & 30 marked with 2 notches on S. & 4 notches on N. edges and raise a mound of stone 3 ft. base 3 ft. high W. of cor. from which,  
An oak tree 24 ins. diam. brs. N.  $12^{\circ}$  E. 64 lks. dist.,  
marked T. 18 S. R. 32 E. S. 19 B.T.  
An oak tree 12 ins. diam. brs. S.  $50^{\circ}$  E. 55 lks. dist.,  
marked T. 18 S. R. 32 E. S. 30 B.T.

## West Boundary T. 18 S. R. 32 E.

Chains	<p>An oak tree 30 ins. diam. brs. S. <math>50\frac{1}{4}^{\circ}</math> W. 158 lks. dist., marked T. 18 S. R. 31 E. S. 25 B.T.</p> <p>An oak tree 24 ins. diam. brs. N. <math>9^{\circ}</math> W. 64 lks. dist., marked T. 18 S. R. 31 E. S. 24 B.T.</p> <p>Land, mountainous. Soil, 3rd rate, stony. Timber, oak. Undergrowth, scrub oak. Mountainous land exceptionally difficult to survey, 80 chs. At this cor. at noon, I set off <math>23^{\circ} 18'</math> N. on the decl. arc &amp; observe the sun on meridian. The resulting lat. is <math>31^{\circ} 50' N.</math></p>
10.00	<p>N. <math>0^{\circ} 1'</math> W. bet. secs. 19 &amp; 24. Over rough stony ground, through heavy oak timber. Main Canyon, 3 chs. wide, course SE. Leave valley of same and ascend.</p>
25.00	<p>West pt. of high butte, brs. E. &amp; W. Top is 14 chs. E. Low saddle is 4 chs. W. Leave heavy oak timber. desc.</p>
32.00	<p>Gulch 50 lks. wide, course NE. Begin grad. asc. along E. slope of mtn. over ground covered with large loose boulders.</p>
40.00	<p>Set a granite stone <math>20 \times 13 \times 10</math> ins. 15 ins. in ground for <math>\frac{1}{4}</math> sec. cor. marked <math>\frac{1}{4}</math> on W. face and raise a mound of stone 2 ft. base <math>1\frac{1}{2}</math> ft. high W. of cor. from which, An oak tree 18 ins. diam. brs. N. <math>76\frac{1}{4}^{\circ}</math> E. 28 lks. dist., marked <math>\frac{1}{4}</math> S. 19 B.T. An oak tree 8 ins. diam. brs. S. <math>60^{\circ}</math> W. 120 lks. dist., marked <math>\frac{1}{4}</math> S. 24 B.T.</p>
80.00	<p>Set a granite stone <math>20 \times 10 \times 10</math> ins. 10 ins. in ground to bedrock in mound of stone for cor. of secs. 18, 19, 13, &amp; 24, marked with 3 notches on N. &amp; S. edges and raise a mound of stone 4 ft. base 3 ft. high W. of cor. No bearings available. Land, mountainous, broken. Soil, 3rd rate, stony. Timber, oak. Undergrowth, scrub oak, scattering mesquite, palmeo. Mountainous land or land heavily timbered and exceptionally difficult to survey, 80.00 chs.</p>
40.00	<p>N. <math>0^{\circ} 1'</math> W. bet. secs. 13 &amp; 18. Along steep E. slope of mountain over very broken, stony ground. Set a granite stone <math>18 \times 12 \times 10</math> ins. 12 ins. in ground for <math>\frac{1}{4}</math> sec. cor. marked <math>\frac{1}{4}</math> on W. face and raise a mound of stone 4 ft. base 3 ft. high W. of cor. No bearings available. Pits impracticable.</p>
63.75	<p>Wood road, brs. E. &amp; W.</p>
67.00	<p>Gulch 20 lks. wide, course ENE.</p>
80.00	<p>Set a granite stone <math>24 \times 12 \times 10</math> ins. 18 ins. in ground for Cor. of secs. 12, 13, 7 &amp; 18, marked with 4 notches on S. &amp; 2 notches on N. edges, and raise a mound of stone 3 ft. base 2 ft. high W. of cor. from which, An oak tree 10 ins. diam. brs. N. <math>8^{\circ}</math> W. 112 lks. dist., marked T. 18 S. R. 31 E. S. 12 B.T. An oak tree 10 ins. diam. brs. N. <math>44^{\circ}</math> E. <math>98\frac{1}{2}</math> lks. dist., marked T. 18 S. R. 32 E. S. 7 B.T. No other bearings available. Land mts. Soil, 2nd &amp; 3rd rate, stony. Timber, some oak. Undergrowth, scattering scrub oak, palmeo. Mountainous land exceptionally difficult to survey, 80.00 chs.</p>

June 28, 1909.

## West Boundary of T. 18 S. R. 32 E.

## Chains

- June 29, 1909.  
 At 7h a.m., l.m.t., at the cor. of secs. 7, 12, 13 & 18,  
 as already established by me, I set off  $23^{\circ} 16\frac{1}{2}'$  N. on the  
 decl. arc and  $31^{\circ} 52'$  N. on the lat. arc and determine  
 a true meridian with the solar,  
 Thence I run,  
 N.  $0^{\circ} 1'$  W. bet. secs. 7 & 12.  
 Over very rough broken and stony E. slope of mountain.  
 With great difficulty. through scattering oak timber.
- 5.85 Gulch 50 lks. wide, course E. asc. steep.  
 21.00 Flat rocky ridge, brs. E. & W. desc.  
 27.45 Gulch 20 lks. wide, course ESE. asc.  
 30.00 Sharp ridge, brs. ESE. & WNW. desc.  
 through dense oak timber.
- 40.00 Set a granite stone  $24 \times 12 \times 8$  ins. 18 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. from which,  
 An oak tree 10 ins. diam. brs. S.  $45^{\circ}$  E. 43 lks. dist.,  
 marked  $\frac{1}{4}$  S. 7 B.T.  
 An oak tree 12 ins. diam. brs. N.  $8^{\circ}$  W. 11 lks. dist.,  
 marked  $\frac{1}{4}$  S. 12 B.T.
- 45.00 Rocky gulch 3 chs. wide, course E.  
 Leave oak timber & asc.
- 59.50 Sharp ridge, brs. E. & W. desc. steep.  
 61.50 Canyon 80 lks. wide, course E. asc. abrupt.  
 63.00 Top of bank.  
 67.00 Rocky spur, brs. E. & W. desc.  
 76.40 Canyon 80 lks. wide, course ESE. asc.
- 80.00 Set a granite stone  $24 \times 12 \times 12$  ins. 18 ins. in ground for  
 Cor. of secs. 6, 7, 1 & 12, marked with 5 notches on S. &  
 1 notch on N. edges and raise a mound of stone 4 ft. base  
 $1\frac{1}{2}$  ft. high W. of cor.  
 No bearings available.  
 Land Mts. Soil 3rd rate, stony.  
 Timber, some oak.  
 Undergrowth, scattering scrub oak, palneo.  
 Mountainous land exceptionally difficult to survey, 80 chs.  
 At this cor. at noon, I set off  $23^{\circ} 15'$  N. on the decl.  
 arc and observe the sun on the meridian.  
 The resulting lat. is  $31^{\circ} 53'$  N. ✓
- 
- N.  $0^{\circ} 1'$  W. bet. secs. 1 & 6.  
 Along rough stony E. slope of mountain, very broken ground.
- 10.00 Top of low flat ridge, brs. E. & W.  
 15.64 Wire fence, brs. N.  $79^{\circ}$  E. & S.  $79^{\circ}$  W.  
 Enter pasture of San Simon Cattle Co.  
 27.00 Rocky gulch 2 chs. wide, course E.  
 Heavy oak timber in same.
- 40.00 Top of ridge, brs. E. & W.  
 Set a granite stone  $24 \times 12 \times 6$  ins. 18 ins. in 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. from which.  
 An oak tree 14 ins. diam. brs. N.  $35^{\circ}$  W. 91 lks. dist.,  
 marked  $\frac{1}{4}$  S. 1 B.T.  
 No other bearings available.
- 47.35 Gulch 50 lks. wide, course ENE. asc. steep.  
 53.00 Ridge, brs. E. & W. desc. steep through heavy oak timber.  
 60.00 Enter bottom of main canyon.  
 65.00 Main wash of Canyon 150 lks. wide, course NE.  
 75.00 Leave bottom of canyon and oak timber, asc.  
 80.00 To cor. of Tps. 17 & 18 S. Rs. 31 & 32 E. as heretofore  
 established and described.  
 Land, mountainous. Soil, 3rd rate, stony.  
 Timber, some oak in canyons.  
 Undergrowth, scattering scrub oak, palneo, ocotillo.  
 Mountainous land exceptionally difficult to survey, 80 chs.  
 June 29, 1909.

Resurvey of portion of South. Bdy. T. 18 S. R. 32 E.

Chains	June 30, 1909.
	Before beginning the subdivision of this Tp., I examined the old south boundary thereof and find several of the corners obliterated and all other corners in a dilapidated condition.
	To test the measurement and alignment of the S. bdy. T. at 7h a.m., l.m.t., at the cor. of Tps. 18 & 19 S. Rs. 31 & 32 E. as recently reestablished by me, I set off 23° 13' N. on the decl. arc and 31° 48½' N. on the lat. arc and determine a true meridian with the solar, thence I run, etc.
	East bet. secs. 31 & 6.
	Over mts. land desc. grad. through heavy oak timber.
8.00	Main canyon 3 chs. wide, course ENE.
40.20	Find evident remains of orig. ¼ sec. cor. 15 lks. S. of line, which I destroy, and at the orig. cor. point I set a granite stone 30x15x12 ins. 10 ins. in ground to bedrock in mound of stone for ¼ sec. cor. marked ¼ on N. face and raise a mound of stone 4 ft. base 3 ft. high N. of cor. from which, An oak tree 18 ins. diam. brs. S. 13½° W. 2 chs. dist., marked ¼ S. 6 B.T. No other bearings available.
	True course and distance of this ½ mile is
	S. 89° 47' E. 40.20 chs.
	From this ¼ sec. cor. I run, continuing measurement.
	East.
	Leave oak timber, descend grad.
80.25	Find evident remains of old cor. of secs. 31, 32, 5 & 6, being an old decayed post with markings obliterated. 15 lks. S. of line, which I destroy, and at orig. cor. point I set a granite stone 24x14x10 ins. 18 ins. in the ground for cor. of secs. 31, 32, 5 & 6, marked with 1 notch on W. and 5 notches on E. edges and raise a mound of stone 2 ft. base 1½ ft. high W. of cor. No bearings available. Pits impracticable. True course and distance of this last ½ mile is
	S. 89° 47' E. 40.05 chs.
	Land Mts. Soil, 3rd rate, sandy, gravelly, stony.
	Timber, heavy oak. Undergrowth, scrub oak mesquite.
	Mts. land exceptionally difficult to survey, 40.20 chs.
	Mts. land, -----, 40.05 chs.
	Thence I run, etc.
	East, bet. secs. 32 & 5.
	Over rolling land, desc. grad.
20.00	Enter almost impenetrable thicket of mesquite, brs. N. & S.
39.00	Arroyo 20 lks. wide, course SE.
39.50	Find faint remains of old post the orig. ¼ sec. cor. 15 lks. S. of line. This cor. being almost obliterated, I destroy and at orig. cor. point, I set a granite stone 20x10x6 ins. 15 ins. in ground for ¼ sec. cor. marked ¼ on N. face and raise a mound of stone covered with earth 2 ft. base 1½ ft. high N. of cor. Thence I run, etc.
	East, continuing measurement.
40.00	Wire fence corners 20 lks. S. of line and runs S. and E. from cor.
	Leave thicket, continue in dense mesquite.
79.43	Find remains of old cor. 15 lks. S. of line, which I re-establish in its orig. position for cor. of secs. 32, 33, 4 & 5 by a granite stone 24x14x12 ins. set 18 ins. in ground marked with 2 notches on W. and 4 notches on E. edges and dig pits 18x18x12 ins. in each sec. 5½ ft. dist. & raise a mound of earth 4 ft. base 2 ft. high W. of cor. No bearings avail. True course and distance of this mile is S. 89° 47' E. 79.43 chs. Rolling land 20 chs. Land covered with dense undergrowth and exceptionally difficult to survey 20 chs. Dense undergrowth 39.43 chs. I leave flag at this cor. & discontinue my resurvey.

Boundaries of T. 18 S. R. 32 E.

I test the alinement of the remainder of the S. Bdy. of T. 18 S. R. 32 E. and find that the line runs uniformly S. 89° 47' E.

General Description.

The North Boundary of this Tp runs over a generally rolling valley covered with a slight growth of mesquite and scant grass. The soil being dry and sterile. The West Boundary lies along the E. slope of the Chiricahua mountains, being over very rough and broken ground.

There is considerable oak timber along this line. The South Boundary runs over a rolling valley descending from the SW. cor. gradually to the intersection with the East Boundary of Arizona.

All of the old corners on the S. bdy. are impossible of identification except by measurement for same.

The alinement appears to be uniform but is S. 89° 47' E., instead of due East as reported.

The mesasurements being somewhat irregular.

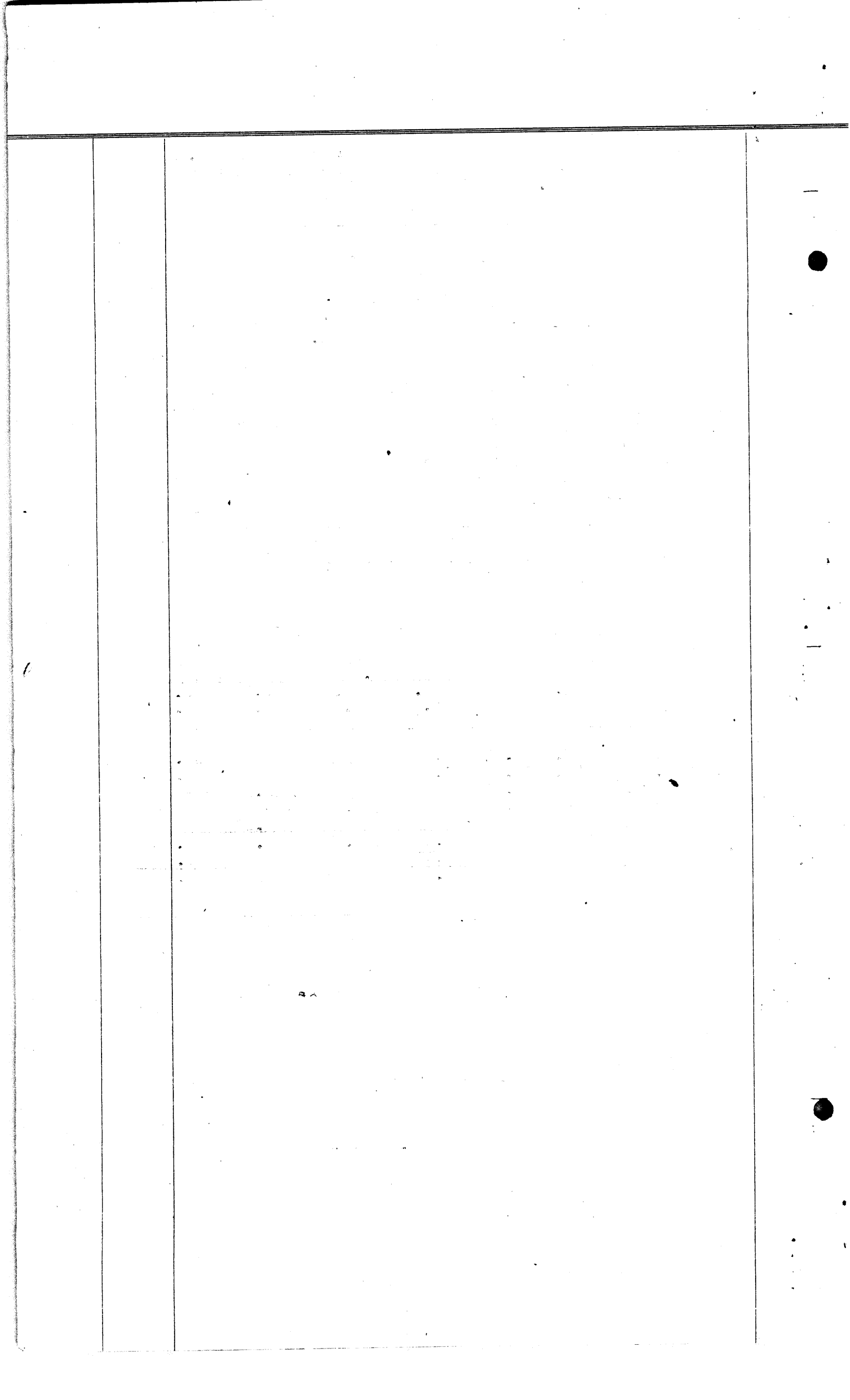
Boundaries of T. 18 S. R. 32 E.  
Latitudes, Departures, and closing errors.

Line Designated	True Bearing.	Dist. Chs.	-Latitudes.		Departures.		
			North. Chs.	South. Chs.	East. Chs.	West. Chs.	
South Bdy.	N. 89° 47' W.	342.18	1.28	-----	-----	342.18	
West Bdy.	N. 0° 1' W.	453.00	453.00	-----	-----	.15	
North Bdy.	East.	-----	341.44	-----	-----	341.44	
East Bdy.	South	-----	453.55	-----	453.55	-----	
convergency						.40	
Totals.			-----	454.28	453.55	341.84	342.33
				453.55	-----	-----	341.84
Error in Lat.			---	.73			Error in Dep. .49

June 30, 1909.

Inasmuch as I employed all my assistants from among the settlers in the immediate vicinity of the work and there was no notary or other officer with seal duly qualified to administer the necessary oaths available without incurring great delay and expense, I was compelled to administer the preliminary and final oaths to my assistants.

*Jesse B Wright*  
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 Jesse B. Wright

9, 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

Boundaries of T. 18 S. R. 32 E showing the respective capacities in which they acted:

- Eric J. Stover ..... Chainman.
- William Cick ..... Chainman.
- Lee English ..... Moundman.
- Frank Sanford ..... Moundman.
- Joseph Tompkins ..... Axman.
- James McAlister ..... Axman.
- Bertram Cick ..... Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Jesse B. Wright

Jesse B. Wright United States Deputy Surveyor, in surveying all those parts or portions of the Boundaries of T. 18 S. R. 32 E

of the Gila & Salt River Base & meridian, Terr. 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

- E. J. Stover ..... Chainman.
- William Cick ..... Chainman.
- Lee English ..... Moundman.
- Frank Sanford ..... Moundman.
- Joseph Tompkins ..... Axman.
- James McAlister ..... Axman.
- Bertram Cick ..... Flagman.

Subscribed and sworn to before me this 6th day of July, 1909

Jesse B. Wright  
U. S. Deputy Surveyor.



FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Jesse B. Wright, 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 9th day of February, 1909, 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

Boundaries of T 18 S. R. 32 E.

of the Gila & Salt River Base & meridian, in the Terr. 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.

Jesse B. Wright  
United States Deputy Surveyor.

Subscribed by said Jesse B. Wright, and sworn to before me

this 9th day of July, 1909

W. H. ...  
U.S. Commissioner



APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Tucson, Ariz. July 21, 1909

The foregoing field notes of the survey of the West and fractional North Boundaries of T 18 S. R. 32 E. Boundaries of a portion of the South Boundary of T 18 S. R. 32 E. and Boundaries of portions of the South and East Boundaries of T 17 S. R. 31 E. Gila and Salt River Base and Meridian Arizona

executed by Jesse B. Wright M.D. Dep. Sur under his contract No. 154, dated July 9, 1909, 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.