

1904
Sept. 23, 1904

1921

Book "b"

1921

Accepted
E. 2/15/08

1921

FIELD NOTES

BOOK 1921

OF THE SURVEY OF THE

East Boundary of Town
ship No. 9 North of Range
Nos. 10 and 11 East

1921

1921

of the *Gilpin* and *Wolf* River Meridian,

District of Arizona

AS SURVEYED BY

Wesley E. Baker, United States Deputy Surveyor,

Under his Contract No. *116*, dated *April 18, 1904*, 189

Survey commenced *June 29, 1904*, 189

Survey completed *July 1, 1904*, 189

1921

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1921

201A

NAMES AND DUTIES OF ASSISTANTS.

BOOK 1921

Donald Sturman, Chairman
Duffie A. East

Paul Gilstrap, organ

27
1B

BOOK 1921
INDEX DIAGRAM.

Township 9 North, Range 10 East

6	5	4	3	2	1	2
7	8	9	10	11	12	4
18	17	16	15	14	13	9
19	20	21	22	23	24	7
30	29	28	27	26	25	5
31	32	33	34	35	36	3

Meanders Page.....

271C

BOOK 1921

PRELIMINARY OATHS OF ASSISTANTS.

WE, Ronald Stevenson and Virgil D. Earl
do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain over 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

East Wdy. of P. 9 North, R. 10 East
Ronald Stevenson Chainman. ✓
Virgil D. Earl, Chainman. ✓

Subscribed and sworn to before me this 29th
day of June, 1904



Jan. E. Baker
U.S. Dept. Surveyor

WE, _____ 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

_____, Moundman.
_____, Moundman.

Subscribed and sworn to before me this _____
day of _____, 189 _____



WE, Orval C. Gilstrap
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

East Wdy. of P. 9 North, R. 10 East
Orval C. Gilstrap, Axman. ✓
_____, Axman.

Subscribed and sworn to before me this 29th
day of June, 1904



Jan. E. Baker
U.S. Dept. Surveyor

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 _____, 189 _____



Survey commenced on June 29, 1904 and equipped with a H. and L. Busby improved light mountain transit No. 30 with solar attachment. The horizontal limb is provided with two doubly verniers placed opposite to each other reading to single minutes of arc, which is also the least count of the verniers of the latitude and declination arcs.

The instrument was examined, tested on the true meridian at Spokane, Wash., by Geo. R. Campbell, Civil Engineer, found correct on June 1, 1904.

1921

On examining the adjustments of the transit and finding no level or collimation errors; they tested the solar apparatus by comparing its indications, resulting from solar observations made during p.m. and a.m. hours with a meridian determined by observations on Polaris. I proceed as follows:

At my camp 40 chs. N. of the adjoining corner of P. 9 N., R. 10 W. and 11 W., latitude $46^{\circ} 34'$, longitude $117^{\circ} 05'$; latitude $46^{\circ} 14' 42''$; and

East boundary of S. 9 T., R. 10 E.

BOOK 1921

of ~~34° 04'~~ ^{34° 04'} N. on the lat. acc. ~~23° 14'~~ ^{23° 14'} N. on the decl. acc; and at 4^h 00^m p. m., l. m. t. determining with the solar a meridian, and mark a point thereof on a stone set firmly in the ground, 5 chs. W. of my station.

June 29, 1904

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✓

June 30: At ~~12<sup>h</sup> 00<sup>m</sup>~~ <sup>12<sup>h</sup> 03<sup>m</sup></sup> a. m., by my watch, which is correct with l. m. t.; I observe Polaris at eastern elongation in accordance with Manual of Instructions, and mark a point in the line thus determined by cutting a groove for a peg set firmly in the ground 5 chs. W. of my station.

At 5<sup>h</sup> 10<sup>m</sup> a. m., l. m. t.; I lay off the azimuth of Polaris 10° 27' to the west and mark a point in the meridian thus determined by cutting a small groove in the stone already set 5 chs. W. of my station; on which the meridian falls 2 ins east of the mark determined by the solar.

At 5<sup>h</sup> 00<sup>m</sup> a. m., l. m. t. set off 64° 52' N. on the lat. acc; 23° 11' N. on the decl. acc; and mark a

5/20/04

✓

point in the line thus determined by a cross on the stone already set 5 cts. W. of my station; This mark falls 0.2 ins. east of the meridian determined by the Polaris observations. The solar apparatus by p.m. and a.m. observations defines positions for meridians, respectively about 10" west and 10" east of the meridian established by the Polaris observations; therefore, I conclude that the adjustments of the transit are satisfactory. The magnetic bearing of the true meridian at 5:50 a.m. l.m.t. is  $14^{\circ} - 30' E$ ; the angle thus determined gives the mean magnetic declination  $14^{\circ} - 30' E$ .

1921

I commence at the closing cor. of T. 9 N., R. 10 and 11 E. on the theoretical end Standard Parallel North just established by me. Thence I run East on theoretical end Standard Parallel North for 12.67 cts. At this point I set a granite stone 10 x 6 ins., 12 ins. in the ground, for Standard cor. of T. 9 N., R. 10 and 11 E.

BOOK 1921

marked V.C. on N; with  
grooves on N, E and S  
faces; from which

A juniper, 10 ins. dia.  
bears N. 40° E, 97 lbs. dist.  
marked T. 9 N., R. 10 E.,  
V. 36 P. 1. No other

tree in limits; raised  
mass of stone, 10 ft  
base, 4 ft high, N of each  
pits impracticable

Thence I run  
North by sec. 31 and 36  
of the E. bdy. of T. 9 N.,  
R. 10 E.

Descend along the slope  
of mountain through  
scattered timber and  
dense spruce growth.

34.00 Ravine, 22 1/2 ft. deep, course  
to the Arcuate

40.00 Set a granite stone, 12 x  
8 x 6 ins., 10 ins. in the ground,  
Joc 1/2 sec. cor, marked 1/4 on  
the S. face; from which

A juniper, 10 ins. dia.  
bears N. 40° E, 114 lbs. dist.  
marked 1/4 V 31 P. 1.

A juniper, 18 ins. dia.  
bears N. 38° E, 104 lbs. dist.  
marked 1/4 V 36 P. 1.

45.00 Spur, 175 ft high, slopes  
toward the N. Descend.

49.00 Draw, 50 ft deep, course to  
the N.

56.00 Spur, 150 ft high, slopes  
toward the N. Descend.

60.00 Slightly stone, bears N. 40° E, 15th

72.00 Draw, 100 ft deep, course  
to the Arcuate.

80.00 Set a granite stone, 16 x  
10 x 6 ins., 10 ins. in the



ground, for cor. of each  
20, 21, 22 and 23, marked  
with 5 notches on the N.  
and 1 notch on the S.  
edges, from which  
A juniper, 14 ins. dia,  
bears T. 9 N., R. 10 E. 20  
marked T. 9 N., R. 10 E.  
21 D. 21

A juniper, 8 ins. dia,  
bears T. 9 N., R. 10 E. 22  
marked T. 9 N., R. 10 E. 22  
D. 22

No other trees in  
limits; raised mound of  
stone, 2 ft. base, 1 1/2 ft.  
high, N. of cor.; pits  
unpracticable.

This cor. cor. stands on the  
slope of mountain 20 ft.  
above the standard  
Cor. of T. 9 N., R. 10 E. 22

Land, mountainous.

Soil, stony; red and 4th  
rate.

Timber, very scattering  
juniper.

Undergrowth, buck brush,  
sage and chaparral.

Mountains or heavily  
covered with dwarf  
undergrowth, 8 or 10 ft.

June 20: At 8:10 P.M.  
P.M.T. I set off 20° 04'  
from the lathes; 20° 10'  
from the decl. arc; and  
determine a meridian  
with the star of the

East boundary of T. 9 N., R. 10 E

BOOK 1921

sec. of secs. 25, 26, 27 and 28.  
 Timber from  
 West bet. secs 25 and 26.  
 Ascending along the slope  
 of mountain through  
 scattering timber and  
 dense undergrowth.  
 2.00 Spruce, 75 ft. high, slopes  
 toward the N.  
 4.25 Draw, 50 ft. deep, course N.  
 14.00 Spruce, 150 ft. deep, course N.  
 Ascend.  
 18.50 Draw, 175 ft. deep, course N.  
 24.00 Gneiss stone bears N. 89° 10' E.  
 " Farm house bears N. 83° 08' E.  
 " " " " N. 60° 20' E.  
 " " " " N. 80° 55' E.  
 " " " " N. 14° 25' E.  
 24.75 Spruce, 100 ft. high, slopes  
 toward the N.  
 40.00 Set granite stone, 18 x 10 x 8  
 ins., 10 ins. in the ground,  
 for  $\frac{1}{4}$  sec. cor., marked  $\frac{1}{4}$  of  
 the N. & S. line; No trees in  
 limits; raised mound of  
 stone, 2 ft. low, 15 ft. high,  
 N. of cor., pits impracticable.  
 54.00 Draw, 200 ft. deep, course N.  
 58.00 Spruce, 200 ft. high, slopes  
 toward the N. & descend  
 70.00 Deep level bottom of  
 Conito River, bears E. and N.  
 79.00 Set the C. sec. cor., 100 lbs. &  
 of the true point for cor. of  
 secs. 19, 24, 25 and 26 which  
 falls in the dry bed of  
 Conito River, where natural  
 causes would insure its  
 destruction.  
 Set a granite stone, 18 x 10 x 8  
 ins., 10 ins. in the ground.

For H. C. to cor. of sec. 19, 24,  
 25 and 30, marked H. C.  
 on N. E. face, with 4 notches  
 on the N. and 2 notches on  
 the S. edges, from which  
 A cottonwood, 10 ins.  
 dia, bears S. 59° W. 256 lks.  
 dist, marked H. C., T. 9 N.  
 R. 10 E. & 25 & 30.

No other trees in limits;  
 raised mound of stones,  
 1 1/2 ft. high, H. C.  
 cor.; pits impractical.  
 8000 S. bank of Tonto River,  
 dry this time of year, 100  
 ft. wide, below H.  
 The true point for cor. of  
 sec. 19, 24, 25 and 30 in  
 river bed.

Land mountainous and  
 level.  
 Soil sandy and stony, red  
 and deep water.  
 Timber, very scattering ju-  
 niper and cottonwood.  
 Undergrowth, willow, buck  
 brush and chaparral.  
 Mountainous or landscaped  
 with dense undergrowth  
 8000 ft.  
 Present at noon prevented  
 taking the latitude.

June, 30, 1904

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July 1, 1904

Mostly bet. sec. 19 and 24
 West dry bed of Tonto River
 from true point for cor.
 of sec. 19, 24, 25 and 30.
 Scattered timber and

East boundary of P. 9 1/2, R. 10 E.

BOOK 1921

- 100 dense undergrowth
- 105 North bank of Santa River, bears E. and th. Over bottom lands. No undergrowth.
- 27.65 Irrigation ditch, 8 ft. wide, 2 ft. deep course S. & th.
- 28.00 This fence, bears E. and th.
- 28.28 " Intersect meadow. Leave timber
- 28.28 This fence, bears E. and th.; leave meadow and enter alfalfa field
- 31.50 Farmstead of Mr. Conway, bears th., 4 chs. dist.
- 38.45 This fence, bears E. and th.; leave alfalfa field and enter hay field of the Cavanaugh farm
- 40.00 Set a gravity stone, 15x10x6 ins., 10 ins. in the ground for 1/2 sec. cor., marked 1/4 of the th. fence; raised mound of stone covered with earth 1/2 ft. base, 1 1/2 ft. high, th. of cor. and dug pit 18x10x12 ins., N. and S. of cor., 4 ft. dist.
- 41.25 Fence, bears N. E. and S. th.; thence over meadow.
- 42.50 Leave meadow and enter alfalfa field, bears E. and th.
- 43.90 Irrigation ditch, same as above, course S. & th.
- 45.00 Cavanaugh's house, bears th., 2 chs. dist.
- 46.50 N. fence of Cavanaugh's farm bears E. and th. Thence through corn field of the R. W. Hils farm.
- 55.40 Fence, bears E. and th.; leave corn field and pass over meadow.
- 58.65 Fence, bears E. and th.

Fence through Root's farm.

2000 Fences, bears E. and N. of John Root's house bears N. 1/4 ch. dist.

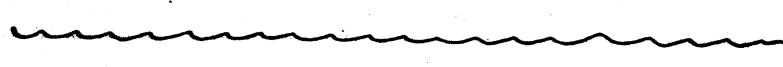
2006 Fence bears E. and N. Set a gravity stone, 15 x 10 x 8 ins., 10 ins. in the ground, for cor. of secs. 18, 19, and 24, marked with 3 notches on the N. and S. edges. Dig pits, 18 x 18 x 12 ins. in each section 5 1/2 ft. dist.; and raise mound of earth 4 ft. high, 2 ft. high, N. of cor. land level.

Soil, rich sandy loam; 1st rate.

Timber, very scattering cottonwood.

Undergrowth, willow.

Land covered with dense undergrowth, 1 chain.



Northern bet. secs 18 and 19.

Open meadow land in John Root's farm.

No timber or undergrowth.

290 3/4 mile fence bears E. and N.

1460 " " " N.E., S.W.

1250 Irrigation ditch, 4 ft. wide, 2 ft. deep, course S.W.

1300 Leave half land and ascend S. slope of mountain, through dense undergrowth to C. Haystack house bears E.

BOOK 1921

5 chs. dirt.

3200 S spur, 100 ft. high, slopes toward the E.

3600 draw, 120 ft. deep, course S. E. Around

4000 Set a gravity stone, 15 x 10 x 6 ins., 10 ins. in the ground, for 1 sec. cor., marked 1/4 on the N face, raised mound of stone, 2 ft. base, 1 1/2 ft. high, the E. cor., pits impracticable.

4100 S spur, 200 ft. high, slopes toward the S. E. Around. S spur over ridge spurs and small draws.

4400 draw, 120 ft. deep, course S. E.

4900 S spur, 100 ft. high, slopes S. E. Around.

5000 Set a gravity stone, 15 x 10 x 6 ins., 10 ins. in the ground, for cor. of sec. 7, 12, 10 and 11, marked with 2 notches on the N face and 4 notches on the E face; raised mound of stone, 2 ft. base, 1 1/2 ft. high, the E. cor., pits impracticable. Land level and mountainous. Soil, rich sandy loam and gravelly, red and red plate.

No timber.

Undergrowth, willow and hick trees.

Mountainous and land covered with dense undergrowth.

6200 chs.

July 11 At this sec. cor.

I set off $20^{\circ}-08' N.$ on the decl. acc, and at 12:00 P.M. observe the sun on the meridian, the resulting lat. is $34^{\circ}-08' N.$, which is a little greater than the proper lat.



- North of sec. 7 and 12
crossing along S. slope of
mountain through dense
undergrowth. No timber.
- 8000 Drain, 100 ft. deep, course E.
- 8000 Ridge, 400 ft. high, bears
N. 1/2 W. and S. E. descend.
- 8000 Set a granite stone, 10 x
12 x 5 ins., 10 ins. in the ground,
for $\frac{1}{2}$ sec. cor., marked $\frac{1}{4}$ on
the N. face; ~~permanently~~
of stone, 1/2 ft. box, 1 1/2
ft. high, 1/2 ft. of cor., fits
impracticable.
- 8000 Ravine, 150 ft. deep, course E.
- 8000 Spur, 200 ft. high, slopes
toward the N.
- 8000 Dry bed of stream, 20 lbs.
wide, covers ~~bottom~~ in ravine,
100 ft. deep. Thence up
creek bed.
- 8000 Low creek bed, comes from
N. 10 W. Around
- 7200 Spur, 20 ft. high, slopes S. W.
descend.
- 7000 Low dry bed of stream, 20
lbs. wide, in ravine, 100
ft. deep, course S. W.
Around.
- 6000 Set a granite stone, 10 x 12 x 4
ins., 10 ins. in the ground.

East boundary of P. 9 N. R. 10 E.

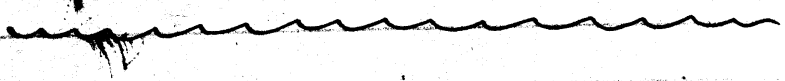
BOOK 1921

For cor. of secs 1, 6, 7 and 14, marked with 1 notch on the N and 5 notches on the E edges; raised mound of stone, 2 ft. base, 1 1/2 ft. high, th. of cor.; pits impracticable.

Land, mountainous soil, sandy and stony; und. and 4th rate. No timber.

Undergrowth, buck brush, sage and choppersal.

Mountainous so lands covered with dense undergrowth. rocks.



July 1. At 3^h 10^m P.M. (lat. 34° 09') set off ~~2000~~ 2000 ft. on the lake side; 2000 ft. on the side acc; and determine a meridian with the corner of the cor. of secs. 1, 6, 7 and 14.

Thence I run North bet. sec. 1 and 6. Across along S. slope of mountain through dense undergrowth.

2:30 Ridge, 500 ft. above dry bed of stream, bears S. and the meridian

4:00 Set a granite stone 15 x 8 x 6 ins, 16 ins in the ground for 1 sec. cor. marked by a 1/2 ft. base; raised mound of stone, 2 ft. base, 1 1/2 ft. high, th. of cor.; pits impracticable.

5:00 Draw 100 ft. S. of cor. V.C.

East boundary of T. 9 N., R. 10 E.

BOOK 1921

51.70 Spur, 25 ft. high, course N. E.

55.00 Draw, 100 ft. deep, course N. E.

55.00 Spur, 50 ft. high, slopes toward the N. E.
Thence over small ridges and ravines.

20.00 Ravine, 200 ft. deep, course N. E.

80.00 Set a granite stone, 10 x 10 x 5 in., 10 in. in the ground, for cor. of T. 9 and 10 N., R. 10 and 11 E., marked with 6 notches on the N., S., E. and W. edges.

1921

raised mound of stone, 2 ft. base, 2 ft. high, N. of cor.; pits imperceptible.

First township cor. stands on N. slope of mountain about 200 ft. above top cor. of sec. 1, 6, 7 and 8. Label, mountains.

Soil, sandy and stony; red, red and 4th strata. No timber.

Undergrowth, sage, chop-arras and mesquite.

Mountains, or lands covered with dense undergrowth; 500000.

July 1, 1904.

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BOOK 1921

### General Description

The range line between Range 10 and 11 E. through Township 9 N., passes through a rich agricultural country for a mile and thence chains. The remaining country is rough and mountainous, but is well adapted to grazing. The hill sides being covered with a good growth of bunch grass. The timber is very scattered consisting of juniper and cottonwood. There is a good supply of water along the Forto River. The townships east and west should be subdivided.

Jan. E. Oaker D. T.

July 1, 1904

No one authorized to administer oaths, other than myself, being available without a great delay, inconvenience and expense I administer the required preliminary and final oaths.

Jan. E. Oaker D. T.

LIST OF NAMES.

A list of the names of the individuals employed by James E. Coker

....., 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 East

Rdy of T. 9 North, R. 10 East

showing the respective capacities in which they acted:

Donald Stevenson ..... Chainman.

Virgil D. Earl ..... Chainman.

..... Moundman.

..... Moundman.

Orval Gilstrap ..... Axman.

..... Axman.

..... Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted James E. Coker

....., United States Deputy Surveyor, in surveying all

those parts or portions of the

East Rdy of T. 9 North, R. 10 East

of the Gilgand

Salt River meridian, District 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

Donald Stevenson ..... Chainman.

Virgil D. Earl ..... Chainman.

..... Moundman.

..... Moundman.

..... Axman.

Orval C. Gilstrap ..... Axman.

..... Flagman.

Subscribed and sworn to before me this 10th

day of July, 1907



James E. Coker

U.S. Dept. Surveyor

3814  
BOOK 1921

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Iwan E. Oakes, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from Hon. Francis J. Ingalls United States Surveyor General for Arizona, bearing date of the 18th day of April, 1904, 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 the

East Body of T. 9 N., R. 10 E.

of the Gila and

Salt River meridian, in the district 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; and should any fraud be detected, I will suffer the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

Iwan E. Oakes

United States Deputy Surveyor.

Subscribed by said Iwan E. Oakes, and sworn to before me }  
this 31 day of August, 1904, 189

Samuel Bolton

County Clerk



APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Phoenix, A. T., December 31st, 1904

The foregoing field notes of the survey of the East Body of T. 9 N., R. 10 E. of the Gila and Salt River Base and Meridian, in the territory of Arizona

executed by Iwan E. Oakes, U. S. Deputy Surveyor, under his contract No. 116, dated April 18th 1904, 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.

~~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.~~