

2079

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FIELD NOTES BOOK 2079

OF THE SURVEY OF THE

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2079

2079

East Boundary of Township
No. 8 North, Range Number
10 East

2079

Of the Gila Salt River Meridian,

District of Arizona

AS SURVEYED BY

Wesley C. Parker, United States Deputy Surveyor,

^{Joint}
Under his Contract No. 116, dated April 18, 1904, 189

Survey commenced June 25, 1904, 189

Survey completed June 28, 1904, 189

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BOOK 2079

NAMES AND DUTIES OF ASSISTANTS.

Virgil D. East, Chairman
Donald Thurman, "

Paul ~~III~~ Gilstrap, Asst.

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BOOK 2079

INDEX DIAGRAM.

Township 8 North, Range 14 East

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PRELIMINARY OATHS OF ASSISTANTS.

WE, Ronald Stevenson and Virgil S. 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 Side of T. & M. P. S. E.
Ronald Stevenson, Chainman.
Virgil S. Earl, Chainman.

Subscribed and sworn to before me this 25th
day of June, 1904, 189

Ivan E. Oakes
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, O. Paul 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 Side of T. & M. P. S. E.
O. Paul Gilstrap, Axman.
_____, Axman.

Subscribed and sworn to before me this 25th
day of June, 1904, 189

Ivan E. Oakes
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 25, 1904, and executed with alt. and L. O. Gurley improved light mounting transit No. 56 with solar attachment. The horizontal limb is provided with two double verniers placed opposite to each other, reading to $80''$ 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 and found correct on June 1, 1904.

I examine the adjustments of the transit and find no level or collimation errors; then to test 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. Proceed as follows:

At the loc. of T. S. N. R. 10 E. established by me on June 25, 1904, latitude $52^{\circ} 52' 7''$, longitude

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

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$111^{\circ} 14' 49''$ H.; I set off
 $33^{\circ} 59'$ W. on the lat. acc;
 $23^{\circ} 44'$ W. on the decl. acc;
 and at $4^{\text{h}} 10^{\text{m}}$ P.M. (L.M.T.) de-
 termine 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 25, 1904.

~~~~~

June 26: At  $7^{\text{h}} 08^{\text{m}}$  A.M., by  
 my watch, which is cor-  
 rect with L.M.T.; observe  
 Polaris of eastern elongation  
 in accordance with Manual  
 of Instructions, and mark  
 a point in the line thus  
 determined by cutting a  
 groove in a peg set firmly  
 in the ground 5 chs. W.  
 of my station.

At  $2^{\text{h}} 55^{\text{m}}$  A.M. (L.M.T.) I lay  
 off the azimuth of Polaris  
 $11^{\circ} 51'$  to the west and  
 mark 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 0.5  
 ins. east of the mark  
 determined by the solar.

At  $5^{\text{h}} 39^{\text{m}}$  A.M. (L.M.T.) I  
 set off  $33^{\circ} 59'$  W. on the  
 lat. acc;  $23^{\circ} 44'$  W. on the  
 decl. acc; and mark a point  
 in the meridian thus deter-  
 mined, by a cross on the  
 stone already set 5 chs.

N. of my station; this mark falls 10.4 ins. east of the meridian established by the Polaris observations.

The solar apparatus by p.m. and a.m. observations defines positions for meridians, respectively about 26" west and 21" east of the meridian established by Polaris observations; therefore I conclude that the adjustments of the transit are satisfactory.

The magnetic bearing of the true meridian at 9<sup>h</sup> 10<sup>m</sup> a.m. (L.M.T.) is  $N. 14^{\circ} 20' E.$ ; the angle thus determined gives the mean magnetic declination  $14^{\circ} 20' E.$

June 26, 1904.

June 27: At 7<sup>h</sup> 10<sup>m</sup> a.m. (L.M.T.) I set off  $33^{\circ} 59' N.$  on the lat. arc;  $23^{\circ} 21' N.$  on the decl. arc; and determine a meridian with the solar alt. of the cor. of Tps. 7 and 8 T. S. W. D. 10 C. and C. C., which was established by me on June 25, 1904.

Since I run north by the E. sdy. of T. S. W. D. 10 C., bet. trees 30 and 50.

Around along N. slope of mountain through scattering undergrowth.

18.50 top of ridge, 100 ft.

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- above township cor., bears E. and  
th. bearing into Guy Creek.
- 30.50 Guy Creek, dry bed, 10 lbs.  
wide, in canyon 300 ft. deep,  
course S. 00° W. Around.
- 40.00 Set a granite stone, 15 x 10 x  
6 ins., 10 ins. in the ground,  
for  $\frac{1}{4}$  sec. cor., marked  $\frac{1}{4}$  in  
the N. face. Raised mound  
of stone, 2 ft. base, 1 1/2 ft. high,  
th. of cor., pits impracticable.
- 50.00 Ridge spur, 400 ft. high,  
slopes towards the N.  
around.
- 60.90 Dry bed of stream, 45 lbs.  
wide, in canyon, 100 ft.  
deep, course S. 7° W. Around.
- 78.00 Ridge spur, 100 ft. high,  
slopes towards the S. W.  
around.
- 80.00 Set a granite stone, 18 x 10 x  
6 ins., 10 ins. in the ground,  
for cor. of secs. 25, 30, 31 and 36,  
marked with 5 notches on  
the N. and 1 notch on the  
S. edges. Raised mound  
of stone, 2 ft. base, 1 1/2 ft.  
high, th. of cor., pits im-  
practicable.
- This sec. cor. stands on steep  
N. slope of mountain about  
25 ft. below the cor. of  
Tps. 7 and 8 N., R. 10 and 11 E.  
Land, mountainous.  
Soil, stony; red and white  
No timber.  
Undergrowth, sage, junipers  
and mesquites.  
Mountainous or lands covered  
with dense undergrowth,  
80.00 lbs.



East boundary of S. 8 T. 10 E.

- North bet. secs. 45 and 50. Descend along steep N. slope of mountain through dense undergrowth.
- 1950 Ravine, 100 ft. deep, course N. Ascend; scattering timber.
- 2250 Mining claim post, marks not plain, bears N., 100 lks. dist.
- 4450 Spruce, 75 ft. high, slopes toward the N. Descend.
- 5940 Drain, 10 lks wide, 100 ft. deep, course S. N. Ascend.
- 4000 Set a granite stone, 10x10x8 ins., 5 ins. in the ground, for  $\frac{1}{4}$  sec. cor., marked  $\frac{1}{4}$  of the N. face, from which a juniper, 6 ins. dia., bears S. 50° E., 90 lks. dist., marked  $\frac{1}{4}$  S. 00, D. S.
- # A juniper, 14 ins. dia., bears S. 70° E., 90 lks. dist., marked  $\frac{1}{4}$  S. 25 D. S.
- ~~4075 Spruce, 75 ft. high, slopes S. N.~~
- ~~5050 Ravine, 50 ft. deep, course N. Ascend.~~
- ~~5500 Spruce, 125 ft. high, slopes S. N. Descend.~~
- ~~6000 Drain, 50 ft. deep, course S. N. Ascend.~~
- ~~7200 Spruce, 200 ft. high, slopes S. N. Descend.~~
- ~~8060 Set a granite stone, 12x10x6 ins., 5 ins. in the ground, for cor. of secs. 19, 24, 25 and 30, marked with 4 notches on the N. and 2 notches on the S. edges, from which a juniper, 12 ins. dia., bears N. 05° E., 17 lks. dist.~~

North this half mile are boys / sup. into line attached.

BOOK 2079

marked T 8 N R 10 E V 19 D S.  
A juniper, 8 ins. dia,  
bear V. 2 1/2 ft., 20 lbs. dist,  
marked T 8 N R 10 E V  
20 D S.

A juniper, 16 ins. dia,  
bear V. 8 1/2 ft., 90 lbs. dist,  
marked T 8 N R 10 E V 24  
D S.

No S. H. tree in limits,  
raised mound of stone, 4 ft.  
base, 1 1/2 ft. high, H. of cov.  
pits impracticable.

This sec. cov. stands on N.  
mountain slope 100 ft. above  
last sec. cov.

Land, mountainous.

Soil, sandy and stony; end  
of and V. H. rate.

Timber, scattering juniper.  
Undergrowth, sage, mesquite  
and choparral.

Mountainous or land covered  
with dense undergrowth,  
8 o'clock.

~~~~~

North of sec. 19 and 24.

Descending along N. slope of
mountain V through
scattering juniper timber
and dense undergrowth.

2.00 drain, 50 ft. deep, curve V. H.

11.25 V. H., 200 ft. high, slopes
toward the V. H. descend.

07.50 drain, 200 ft. deep, curve
V. H. descend.

4.00 Set a granite stone, 10 x 8 x 6
ins., 10 ins. in the ground,
for sec. cov., marked # of
the N. face; from which

For this mile see exp. notes
page 2. See attached.

East boundary of S. 57, R. 10 C.

A juniper, 12 ins. dia, bears
V & 10 C, 5 lbs. dist, marked
V 19 D 3.

A juniper, 8 ins. dia, bears
V 20 th, 10 lbs. dist, marked
V 24 D 3.

42.50 Spruce, 100 ft. high, slopes st.
61.75 Drain, 15 ft. deep, course st.
78.25 Spruce, 100 ft. high, slopes V. st.
Secund.

8000 Let a granite stone, 10x10x6
or ins, 10 ins. in the ground,
for cor. of sec. 10, 14, 18 and
22, marked with notches
on the N. and S. edges; from
which

A juniper, 10 ins. dia, bears
V 10 C, 5 lbs. dist, marked
V 18 D 3.

No other trees in limits;
raised mound of stone,
2 ft. base, 1 1/2 ft. high, st. of
sec, pits impracticable.
This sec. cor. stands on st.
mountain slope, 100 ft. above
the last sec. cor.

Land, mountainous.
Soil, sandy and stony, red
and white soil.
Timber, scattering junipers.
Undergrowth, junipers, sage
and mesquite.

Mountainous or land covered
with dense undergrowth; 8000
cks. ✓

June 27: At this sec. cor.
Dset off 20° 20' N. of the dset
acc; and at 12:00 P.M.
observe the sun on the
meridian; the resulting
latitude is 34° 02', which

is a little greater than
 the proper lat.



N. bet. secs. 16 and 18.
 descend along the slope
 of mountain through
 dense undergrowth and
 very scattering juniper
 timber.

32.75 Draw, 75 ft. deep, course N.
 48.45 Spruce, 200 ft. high, slopes
 N. descend.

40.00 Set a granite stone, 15 x 10 x
 6 ins., 10 ins. in the ground,
 for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on
 the N. face; from which
 a juniper, 6 ins. dia., bears
 N. 41 $\frac{1}{2}$ E., 104 lbs. dist., marked
 $\frac{1}{4}$ 15 P. S.

A juniper, 6 ins. dia., bears
 N. 41 $\frac{1}{2}$ E., 58 lbs. dist., marked
 $\frac{1}{4}$ 16 P. S.

42.45 Draw, 50 ft. deep, course N.
 62.00 Spruce, 200 ft. high, slopes N.
 descend over small ridges
 spurs and draws.

78.75 Ravine, 175 ft. deep, course
 S. N. descend.

80.00 Set a granite stone, 15 x
 8 x 6 ins., 10 ins. in the ground,
 for cor. of secs. 7, 12, 16 and 18,
 marked with 2 notches on
 the N. and 4 notches on the
 S. edges. No trees within
 limits; raised mound of
 stone, 2 ft. base, 15 ft. high to
 N. of cor.; pits imperfec-
 tible.
 Land, mountains.

East boundary of S. 57, R. 10 E.

Soil, sandy and gravelly,
 red and grey later.
 Timber, very scattering
 juniper.
 Undergrowth, sage and
 mesquite.
 Mountainous land; 5000 ft.
 Excessive heat prevents
 further work this day.
 June 27, 1904



- 7.00 Spur, 100 ft. high, slopes toward the N.
- 20.75 Draw, 100 ft. deep, course N.
- 40.00 Set a granite stone, 18x10x5 ins., 10 ins. in the ground, for 1/4 sec. cor., marked 1/4 of the N. face. No trees in limits, raised mound of stones 2 ft. low, 1 1/2 ft. high, 1/2 of cor., pits impracticable
- ~~46.00 Spur, 300 ft. high, slopes toward the N. bearing over small ridge spur and draws.~~
- ~~70.00 Draw, 75 ft. deep, course N. E.~~
- ~~80.00 Spur, 500 ft. high, slopes toward the N.~~
- ~~80.00 Set a granite stone, 18x10x5 ins., 10 ins. in the ground, for cor. of sec. 1, 6, 7 and 12, marked with notch on the N. and 5 notches on the E. edges;~~

Don't do half work see page 3. Exp. notes here attached.

East boundary of T. 8 N., R. 10 E.

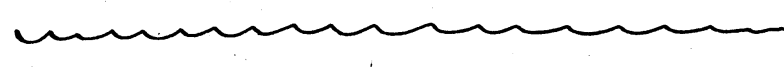
No trees in limits; raised mound of stone, 2 ft. base, 1 1/2 ft. high, ft. of cor; pits impracticable.

Land, mountainous.

Soil, sandy, red color. Timber, very scattering juniper.

Undergrowth, small junipers, sage and mesquite.

Mountainous land, rocks.



June 28: At 2:50 a.m., l. m.t., set off 34° 30' N. on the lat. arc, 28° 17 1/2' N. on the decl. arc, and determining a meridian with the solar at the cor. of secs. 1, 6, 7 and 12.

Thence I run North bet. secs. 1 and 6. Ascend from top of spur along the slope of mountain through scattering timber and undergrowth.

6.00 draw, 100 ft. deep, course N. Arcued.

11.00 Top of spur, 100 ft. high, slopes toward the N. Ascend over small ridge spurs and draws.

4.00 Set a granite stone, 10x10x8 ins., 10 ins. in the ground, 50c 1/2 sec. cor, marked 1/4 of the N. face; No trees in limits; raised mound of stone, 2 ft. base, 1 1/2 ft. high, ft. of cor; pits impracticable.

4.7.00 draw, 100 ft. deep, course N.

In this note see page 7
Rep. note here attached

East boundary of P. 5 1/2, R. 10 E.

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60.50 ~~Spur, 250 ft. high, slopes to
descent.~~

80.00 Set a granite stone, 18 x
10 x 8 ins., in the
ground, for closing cor. of
Sp. 5 1/2, R. 10 and 11 E. of
the theoretical end standard
Parallel North, marked
O.C. on the S. with 6
grooves on the S, E. and N.
faces; from which

A juniper, 10 ins. dia,
bear S 83° E, 59 lbs. dist,
marked S 5 1/2 R 10 E
6 D S.

A juniper, 8 ins. dia,
bear S 14 1/2° E, 140 lbs. dist,
marked S 5 1/2 R 10 E
10 W S.

This closing Sp. cor. stands
on the slope of mountain,
100 ft. above the first cor.
cor.

Land, mountainous.

Soil, sandy, and gravelly
and stony; and, red and
rich soil.

Timber, very scattering
juniper.

Undergrowth, sage, buck
brush, small junipers,
mugwort and chop wood.

Mountainous land, somewhat

Completed survey at
11:30 a.m.; hence did not
take lot this day.

June 28, 1904

~~~~~

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East boundary of T. & W. R. 10 E.

### General Description

The range line, between Ranges 10 and 11 E., through Township 8 North, passes over a rough, mountainous country.

The region is very dry and the streams would run during the rainy season. Timber is very scattering, consisting of juniper.

The hill sides are covered with an abundant growth of bunch grass which makes the land on both sides of the line a fine range for horses and cattle. Townships 8 North, Ranges 10 and 11 E. should be subdivided.

Iran. E. Oakes

June 28, 1904. U. S. Dept. Surveyor

### Note -

Those authorized to administer oaths, other than myself, being available, without great inconvenience, delay and expense, therefore I administer the required preliminary and final oaths.

Iran. E. Oakes

U. S. Dept. Surveyor



LIST OF NAMES.

A list of the names of the individuals employed by Levan E. Baker

....., 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

Boundary of T. & North, R. 10 East

showing the respective capacities in which they acted:

Donald Stevenson ✓, Chainman.

Virgil D. Earl ✓, Chainman.

....., Moundman.

....., Moundman.

Orval C. Gilstrap ✓, Axman.

....., Axman.

....., Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Levan E. Baker

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

those parts or portions of the East Boundary of

Township No. 8 North, Range No. 10 East

..... of the Gilstrap

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

Donald Stevenson ✓, Chainman.

Virgil D. Earl ✓, Chainman.

....., Moundman.

....., Moundman.

Orval C. Gilstrap ✓, Axman.

....., Axman.

....., Flagman.

Subscribed and sworn to before me this 25th

day of June, 1904, 189



Levan E. Baker

U.S. Dep't Surveyor

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

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BOOK 2079

I, Ivan E. Oakes, 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 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 survey of the East Boundary of T. 8 N. R. 10 E., Range 10 East, of the Gila and Salt River meridian, in the State 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.

Ivan E. Oakes  
United States Deputy Surveyor.

Subscribed by said Ivan E. Oakes, and sworn to before me }  
this 31st day of August, 1904 ✓

Simon Bottom  
County Clerk



APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Phoenix, A. T., December 31st, 189 1904

The foregoing field notes of the survey of the East Bdy of T. 8 N. R. 10 E., of the Gila and Salt River Base and Meridian, in the territory of Arizona

executed by Ivan E. Oakes, U. S. Deputy Surveyor under his contract No. 116, dated April 18, 1904, 189, 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.

Completed

Book B

Original No. 2907

4-679.

Box 968

Book "B"

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BOOK 2079

Supplemental  
FIELD NOTES

of Correction  
OF THE SURVEY OF THE

East Boundary

of

T & M R 10 E.

of the Gila & Salt River Base & Meridian,

Territory of Arizona

AS SURVEYED BY

Charles L. Campbell, United States Deputy Surveyor,

Under <sup>Joint</sup> his Contract No. 116, dated April 18, 1907

Survey commenced April 15, 1907

Survey completed April 15, 1907

BOOK 2079

For NAMES AND DUTIES OF ASSISTANTS.

See Book "M" Subs. 912 7 9108

Supplemental Notes

BOOK 2073

### INDEX DIAGRAM.

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For PRELIMINARY OATHS OF ASSISTANTS.  
see Book "m" Subs. 7127 R/O E. Supplemental Notes.

WE, ..... and .....  
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 .....

....., Chainman.

....., Chainman.

Subscribed and sworn to before me this ..... }  
day of ....., 190 }



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 ....., 190 }



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 }



Correcting Survey, commenced on April 15, 1907, and executed with a H. and L. C. Gurley improved solar compass, No. 216, with telescopic attachment, described in correcting notes, heretofore.

Knowing from recent tests on a meridian determined by observations on Polaris, that my instrument is in correct adjustment, I commence at the beginning of sec. 25 on the line bet. secs. 25 and 30 on the E. Dry. of S. 8 N, R. 10 E., as marked, witnessed and described in original field notes;

1/4 Acre & run, North bet. secs. 25 and 30.

Ascending over rough, barren, mountainous land, through scattering undergrowth, no timber.

- 9.75 Locus, 150 ft. high, slopes S. & E.
  - 10.00 Draw, 400 ft. deep, course S. & E.
  - 15.00 Locus, 200 ft. high, slopes S. & E.
  - 20.00 Draw, 100 ft. deep, course S. & E.
  - 22.00 Locus, 300 ft. high, slopes S. & E. second 50 ft.
  - 40.00 Set a granite stone, 15 x 10 x 8 ins., 10 ins. in the ground, for cor. of secs. 19, 24, 25 and 30, marked with 2 notches on the S. and 4 notches on the N. edges; raised a mound of stone, 2 ft. base, 1 1/2 ft. high, S. & E. of cor.; fits imperceptibly.
- Land, mountainous.  
 Soil, stony; 3rd and 4th coty.  
 No timber; undergrowth, sage and mugwort.

See orig. notes  
 Page 5

BOOK 2079

Mountainous lands, 4000 chs.

See any note page 6

North bet. secs. 19 and 24.  
Descend, rough, barren  
mountainous slope through  
scattering ~~timber~~ growth,  
no timber.

2.00 Draw 50 ft. below cor. corner  
S. H.; with scattering timber. E. and S.

11.05 Ridge of brush 300 ft. high  
slopes S. H.

07.00 Draw 250 ft. deep, corner  
S. H.

40.00 Set a granite stone, 15 x 8 x 6  
ins., 10 ins. in the ground,  
for  $\frac{1}{2}$  cor. cor., marked  $\frac{1}{2}$  on  
S. H. face; from which  
A juniper 12 ins. dia. bears  
S.  $25^{\circ}$  E., 51 lbs. dist,  
marked  $\frac{1}{2}$  S. 19 D. 9.

A juniper 7 8 ins. dia.,  
bears S.  $20^{\circ}$  th. 10 lbs. dist,  
marked  $\frac{1}{2}$  S. 24 D. 9.

43.60 Brush, 120 ft. high, slopes S. H.

61.00 Draw, 100 ft. deep, corner S. H.

78.05 Brush, 200 ft. high, slopes S. H.

80.00 Set a granite stone 15 x 10 x 6 ins.,  
10 ins. in the ground, for cor.  
of secs. 13, 18, 19 and 24, marked  
with 3 notches on the N. and  
S. sides; from which

A juniper, 12 ins. dia., bears  
N.  $22^{\circ}$  E., 17 lbs. dist,  
marked S. N. D. 11 C. 7  
18 D. 9.

A juniper 8 ins. dia., bears  
S.  $26^{\circ}$  E., 20 lbs. dist,  
marked S. N. D. 11 C. 7  
19 D. 9.



A juniper 16 ins. dia., base  
 N.  $80^{\circ} \frac{13}{4}$  W., 90 lbs. dist.  
 marked T. 8 N. R. 10 E.  
 T. 10 & D. 7

No other trees suitable for  
 marking in limits, sawed  
 a mound of stone 2 ft.  
 base, 1 1/2 ft. high, th. of crev;  
 pits impracticable.  
 Land, mountainous.  
 Soil, stony, red and deep red.  
 Timber, scattering juniper;  
 undergrowth, mesquite  
 and sage.  
 Mountainous land, no rocks.  
 The 1/4 sec. cor to secs. 13 and 18 has knot 40.00 chains

See adjacent page 9

April 15: At 10<sup>h</sup> 05<sup>m</sup> A.M.,  
 m. t.; set off  $84^{\circ} 03' 11''$  on  
 the lat. arc;  $9^{\circ} 35' 11''$  on the  
 decl. arc; and determining  
 a meridian with the solar  
 at the original 1/4 sec. cor. on  
 the line bet. secs. 7 and 12  
 on E. Side of the 1/4 sec. marked  
 witness~~d~~ and described as  
 in original field notes  
 Thence I run,

North bet. secs. 7 and 12.  
 Around our rough, barren,  
 mountainous land through  
 scattering undergrowth and  
 no timber.

6.25  
 30.50  
 40.00

Thus, 100 ft. above corner, slopes th.  
 Davins, 100 ft. deep, corner T. 8 N.  
 Around, 400 ft. to  
 Let an iron ston, 15 x 10 x 8 ins.,  
 10 ins. in the ground, for cor.  
 of secs. 7, 6, 7 and 12, marked  
 with notch on the N. end

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5 notches on the V. edges, raised  
a distance of stone, 2 ft. base,  
1 1/2 ft. high, th. of cor., fits  
impracticably.

Land, mountainous.  
Soil, stony, ~~red~~ and 4th east.  
No timber, undergrowth, mesquite  
and sage.  
Mountainous land, no rocks.

North ref. sec. 1 and 6.  
Ascending over rough, barren,  
mountainous slope through  
scattering undergrowth; find  
no timber.

- 0.25 L. base, 5 ft. above cor., slopes th.
- 6.50 upward, 150 ft. deep, course th.
- 11.50 L. base, 200 ft. high, slopes th.
- 35.00 Precipitous descent over slides,  
boulders and bluffs into  
canyon; very scattering timber.

40.00 To the top. Point for 1/4 sec. cor.  
Jaw on unstable, sliding  
ground, where natural  
conditions would cause its  
destruction. Then for at a  
point 25 lbs. E. of the top point,  
Def. th. C. for 1/4 sec. (this being by  
far the best place for a corner  
within a radius of 5 chs.  
Marked cross on a solid ledge,  
24 x 24 ft. above ground, for  
th. C. of sec. cor., mark marked th. C.  
1/4 on the side of cross, 10 ins. dist.  
from which.

A scrub juniper, 8 ins. dia.,  
bears th. with 16 lbs. dist.  
marked th. C. 1/4 V. 1 B. 1/4  
No other tree suitable for

Void, see later  
corrections page 9

marking in limits; camp  
at W. L. on ledge, 21 x 4 ft.  
above ground, base  
750' S. 12 lbs. dist. marked  
+ B Q 7 6.

Mound of stone and pits im-  
practicable.

47.00 Canyon, 500 ft. deep, cross th.

60.00 Spur, 400 ft. high, slopes th.;  
having bluffs, boulders and  
slides, base E. and th. toward

80.00 The original cor. of Tps. 8 N., R.  
10 and 11 E.; marked, witnessed  
and described as in original  
field notes.

In this cor. stands 200 ft. below  
spur.

Land, mountainous.

Soil, stony; red and yellow  
pat.

Timber, few scattered fu-  
nibers; underground; sage  
and mesquite.

Mountainous lands 80.00 chs  
Correct at now prevented  
latitude observations.

April 15, 1807.

Charles L. Campbell,  
U. S. Dept. Surveyor.

*For* FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.  
*see Book "M" Subs. 71279108, Supplemental Notes.*

LIST OF NAMES.

A list of the names of the individuals employed by .....

....., 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 .....

showing the respective capacities in which they acted:

- ....., Chainman.
- ....., Chainman.
- ....., Moundman.
- ....., Moundman.
- ....., Axman.
- ....., Axman.
- ....., Flagman.

*For* FINAL OATH OF ASSISTANTS.  
*see Book "M" Subs. 71279108, Supplemental Notes.*  
We hereby certify that we assisted .....

....., United States Deputy Surveyor, in surveying all those parts or portions of the .....

..... of the ..... meridian, ..... of ....., 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 .....

- ....., Chainman.
- ....., Chainman.
- ....., Moundman.
- ....., Moundman.
- ....., Axman.
- ....., Axman.
- ....., Flagman.

Subscribed and sworn to before me this ..... }  
day of ....., 190 .....



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For FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.  
see Book "M" Subs. T 12 N R 10 E. Supplemental Notes

I, \_\_\_\_\_, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from \_\_\_\_\_ United States Surveyor General for \_\_\_\_\_, bearing date of the \_\_\_\_\_ day of \_\_\_\_\_, 190 \_\_\_\_\_, 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 Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of \_\_\_\_\_

\_\_\_\_\_ 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 \_\_\_\_\_ and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

\_\_\_\_\_  
United States Deputy Surveyor.

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



APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Phoenix Ar, January 20, 1908

The foregoing field notes of the survey of correction of the East boundary of T 8 N R 10 E. of the Gila and Salt River Base and Meridian in the territory of Arizona.

executed by Charles L. Campbell U.S. deputy surveyor under <sup>joint</sup> his contract No. 116, dated April 18, 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 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.

# FIELD NOTES

OF THE SURVEY OF THE

Corrective Survey of the Frac.  
East Boundary of  
Township No. 8 North, Range  
No. 10 East

Of the Gilg and East Base Meridian,

District of Arizona

AS SURVEYED BY

Charles L. Campbell, United States Deputy Surveyor,

Under <sup>Joint</sup> ~~his~~ Contract No. 116, dated April 18th, 1904

Survey commenced May, first, 1908

Survey completed May, eighth, 1908

NAMES AND DUTIES OF ASSISTANTS.

Harley P. Stewart, chairman  
Ray E. Campbell "

Robert R. Holder, assman

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INDEX DIAGRAM.

Township 8 North, Range 10 East

|    |    |    |    |    |    |
|----|----|----|----|----|----|
| 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 |

Meanders Page.....



PRELIMINARY OATHS OF ASSISTANTS.

WE, Harley O. Stewart and Ray J. Campbell  
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 Head E. Rdy, T. & N. R. 10 E, Correction Survey

Harley O. Stewart Chainman.  
Ray J. Campbell Chainman.

Subscribed and sworn to before me this 14th  
day of May, 1908.



Charles L. Campbell  
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 \_\_\_\_\_, 190 \_\_\_\_\_



WE, Robert R. Holder 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 Head E. Rdy, T. & N. R. 10 E, Correction Survey

Robert R. Holder, Axman.  
\_\_\_\_\_, Axman.

Subscribed and sworn to before me this 14th  
day of May, 1908.



Charles L. Campbell  
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 \_\_\_\_\_, 190 \_\_\_\_\_



chs.

Corrective survey commenced on the 14th day of May 1908 and executed with an improved solar compass No. 210, with telescopic attachment. The horizontal limb is provided with two double verniers placed opposite to each other, reading to single minutes of arc. The latitude and declination are read to thirty seconds.

The instrument was examined, tested on the true meridian of the U. S. Geological Survey at the Spokane County Courthouse, Spokane, Washington on March 23rd, 1908, and was found correct.

In examining the adjustments of the instrument and find them correct; then to test 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 on Tonto River, 160 Chs. S. of the cor. of secs 13, 18, 19 and 24, on the E. Ody. of T. S. N., D. 10 C.; lat.  $34^{\circ} 02' N$ ; long.  $111^{\circ} 16' 55'' W$ ; at 4.00 P.M. I set off  $34^{\circ} 02' N$  on the

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Chs.

lat. arc;  $18^{\circ} 43' N.$  on the decl. arc; and determine a meridian with the solar and mark a point in the line thus determined by cutting a groove on a stone, firmly set in the ground, 5 chs. N. of my station.

At  $10^h 18^m$  P. M. by my watch which is 37 slow of L. M. T., I observe Polaris in accordance with the Manual of Surveying Instructions and mark a point in the line thus determined by driving a tack in a peg, firmly set in the ground, 5 chs. N. of my station.

|                              |             |                    |
|------------------------------|-------------|--------------------|
| Astron. time of obs. May 14  | $10^h 18.5$ |                    |
| Hatch slow                   |             | 30                 |
| Astron. L. M. T. obs. May 14 | $10 - 21.0$ |                    |
| Add.                         |             | 20 56.1            |
| Equiv. to time of May 13     | $34 - 17.1$ |                    |
| U. C. Polaris, May 13        | $21 - 50.1$ |                    |
| Red. to May 13               |             | 28                 |
| U. C. Polaris May 13         | $21 - 57.9$ | $21 - 57.9$        |
| Hour angle                   |             | $12 - 19.2$        |
| Subst. from                  |             | $23 - 56.1$        |
| Time Argument                |             | $11 - 06.9$        |
| Azimuth at time of obs.      |             | $0^{\circ} 07' C.$ |

May 14, 1808.

Chs. May 15: At 6<sup>h</sup> 30<sup>m</sup> a.m. l.m.t. I lay off the azimuth of Polaris 82° 07' to the S. and find that the meridian thus determined coincides with the meridian that was determined at this station by the solar.

At 7<sup>h</sup> 00<sup>m</sup> a.m. l.m.t., I set off 34° 02' N. on the lat. arc; 18° 53' N. on the decl. arc; and find that the meridian thus determined by the solar coincides with the meridian that was determined by the Polaris observations.

The solar apparatus by p.m. and a.m. hours defines positions for meridians that coincide with the meridian that was determined by the Polaris observations; therefore I conclude that the adjustments of the instrument are satisfactory. The magnetic bearing of the meridian at 7<sup>h</sup> 15<sup>m</sup> a.m. l.m.t., is N. 14° 00' E.; the angle thus determined gives the magnetic declination 14° 06' E.

Commence at the cor. of secs. 1, 6, 7 and 12 as described in original Certificate

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Chs.

Field notes.

Spanca I cum

North bet. secs. 1 and 6.

Over mountainous land,  
no timber, scattering under-  
growth, bluffs, slides,  
boulders and exceptionally  
difficult to survey.

6.50 Below, 150 ft. deep, course dr.  
ascend.

11.50 Spur, 200 ft. high, slopes dr.  
ascend.

35.00 Over great bluffs into deep  
precipitous gorge.

40.00 The true point for cor. comes  
in gorge where natural  
conditions would insure  
its destruction. Therefore  
at a point 2000 E; and  
9500 S. of the true point, set  
a H. C. as follows, this  
being only flag on precip-  
itous slope where a  
cor. can not be established.

39.05 At a point, <sup>approximately 2000 E</sup> 2000 E, <sup>of true point</sup> of true point,  
I marked a cross on top of  
boulder in place, 3' 4" x 5' 0"  
above the ground, and  
marked H. C. 1000 N. side of  
boulder, <sup>this being the most practical place</sup> 1000 N. side of  
cross, from which

A scrub juniper, 8 ins.  
dia., bears N. 59° W. 16  
lbs. dist. marked H. C.  
1000 N.

No other try suitable for  
marking in limits.

A cross on a boulder 2' x 3' x 4'  
ft. above the ground, bears  
S. 50° E., 12 lbs. dist., marked  
+ B C V 6.



FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by Charles L. Campbell, 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 Correction Survey, Tract E. 2d, T. 8 N., R. 10 E. showing the respective capacities in which they acted:

Harley O. Stewart, Chainman.

Roy J. Campbell, Chainman.

Moundman.

Moundman.

Robert R. Holder, Axman.

Axman.

Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Charles L. Campbell, United States Deputy Surveyor, in surveying all those parts or portions of the Correction Survey of the Tract East Township of Township No. 8 North, Range No. 10 East of the 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.

Harley O. Stewart, Chainman.

Roy J. Campbell, Chainman.

Moundman.

Moundman.

Robert R. Holder, Axman.

Axman.

Flagman.

Subscribed and sworn to before me this 16th day of May, 1908.



Charles L. Campbell U.S. Deputy Surveyor

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Charles L. Campbell, 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 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 Correcting Survey of the Isaac East Boundary of Township No. 8 North, Range No. 10 East. 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.

Charles L. Campbell  
United States Deputy Surveyor.

Subscribed by said Charles Campbell and sworn to before me }  
this 10th day of June, 1908



R. K. ...

COUNTY CLERK AND CLERK OF THE SUPERIOR COURT OF THE STATE OF WASHINGTON, FOR SPOKANE COUNTY

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Phoenix, Ariz. Dec. 11, 1908

The foregoing field notes of the survey of Correction of the East boundary of Twp. 8 N. R. 10 E. of the Gila and Salt River Meridian in the Territory of Arizona

executed by Chas. L. Campbell U.S. Deputy Surveyor under his contract No. 116, dated April 18, 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 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.