

Accepted
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1919

Book 2 1919

SEP 23 1904

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1919
FIELD NOTES

OF THE SURVEY OF THE

BOOK 1919

East Boundary of
Township 14 N 12 West,
Range 14 E East

1919

1919

Of the Gila Salt River Meridian,

District of Arizona

AS SURVEYED BY

Charles A. Campbell, United States Deputy Surveyor,

Under his ^{joint} Contract No. 116, dated April 15, 1904, 189

Survey commenced August 12, 1904, 189

Survey completed August 16, 1904, 189

1919

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1919

1731A

NAMES AND DUTIES OF ASSISTANTS.

BOOK 1919

Clara W. Rose, chairman
C. H. Eddy

Chas. W. Brown, assistant

479
1B

BOOK 1919

INDEX DIAGRAM.

Township 12 North, Range 10 E

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Meanders Page.....

1751C
BOOK 1919

PRELIMINARY OATHS OF ASSISTANTS.

WE, Charles W. Rose and C. H. Goetz
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 P. & North P. 10 East
Oliver B. Raser, Chairman.
C. H. Goetz, Chairman.

Subscribed and sworn to before me this 12th
day of Aug, 1914, 189



Chas L Campbell
of 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, I, Chas M. Brown

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 P. & North P. 10 East
Chas. M. Brown, Axman.
_____, Axman.

Subscribed and sworn to before me this 12th
day of Aug, 1914, 189



Chas L Campbell
of 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 Aug. 12, 1904, and executed with a H. and L. E. Furler improved solar compass, No. 210, with telescope attachment. The horizontal limb is provided with two double verniers placed opposite to each other, reading to 30 seconds 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 Hoboken, N. J., by Geo. R. Campbell, Civil Engineer, found correct and was approved on June 1, 1904.

In examining the adjustments of the instrument and finding no lens or collimation errors, they so test the solar apparatus by comparing its indications resulting from solar observations made during the a.m. hours with a true meridian determined by observations on Polaris. I proceed as follows:

At the 35th ^{Body} ~~th~~ part of the Black Mesa Reserve Boundary, which is also the cor. of T. 127, R. 10 E and 4th E. said on being

East boundary of P. Dietz, D. 100.

an iron post, with brass cap, marked and witnessed as described by the surveyor general. Latitude $54^{\circ} 22' 30''$ longitude $111^{\circ} 15'$ West of 9° N. of the lat. arc; and at $14^{\circ} 00'$ N. of the decl. arc and at $10^{\circ} 00'$ l.m.t. determine a meridian with the solar and mark a point thereon, on a stone firmly set in the ground, 5 chs. N. of the coal.

At $10^{\circ} 15'$ p.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 driving a stick in a peg driven in the ground, 5 chs. N. of my station.

✓ Aug. 12, 1904

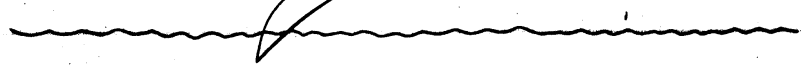
✓ Aug. 18: At $6^{\circ} 10'$ a.m. l.m.t. I set off the azimuth of Polaris $10^{\circ} 00'$ to the S. and mark the true meridian thus determined by cutting a small groove in the stone already set in the ground, 5 chs. N. of my station, on which the meridian falls 0.5 ins. east of the mark determined by the solar.

At 7:50 a.m. (mt.) I set
off $24^{\circ} - 22\frac{1}{2}' N$ on the lat.
line; $24^{\circ} - 40\frac{1}{2}' N$ on the decl. arc,
and mark a point in the
meridian determined
with the solar, by 4 crosses
on the stone already set
5 chs N of my station; this
mark falls 0.4 in. 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 16" west
2" east of the meridian
determined by the Polaris
observations; therefore I
conclude that the adjust-
ments of the instrument
are satisfactory.

1919

The mean mag. alt. is $14^{\circ} - 10' E$.



I commence at the cor-
ner of T. 14 N., R. 10 and 11 E.
to which point is also
the ^{body} ~~west~~ part of
the Black Mt. Forest
Reserve Ody, and described
heretofore.

I then I run
North on true line, along
the East Ody. of T. 14 N.,
R. 10 E., bet. trees 0.1 and 0.6.
I ascend over mountainous
land through heavy timber
and dense undergrowth.
I cross bed of stream, 10 lbs.
wide, by draw, 50 ft. deep
course of the

East boundary of P. 12 T., R. 10 E.

BOOK 1919

14.00 Spur, 50 ft. high, slopes
 V. St.

40.00 Set a sand stone, 18x12x10
 ok ins., 10 ins. in the ground, for
 1 sec. cor., marked $\frac{1}{4}$ on
 the N. face, from which
 An oak, 8 ins. dia, bears
 N. 24° E., 90 lbs. dist., marked
 $\frac{1}{4}$ V 00, 100 0.

An oak, 6 ins. dia, bears
 V. 00° St., 57 lbs. dist., marked
 $\frac{1}{4}$ V 00, 100 0.

51.00 Draw, 100 ft. deep, course V. St.

60.00 Ridge, 150 ft. high, bears
 N. E. and V. St.

70.00 Draw, 25 ft. deep, course
 V. St.

80.00 Set a sand stone, 18x12x10
 ok ins., 10 ins. in the ground
 for cor. of sec. 05, 00, 01 and
 06, marked with 5 notches
 on the N. and 1 notch on
 the V. edge, from which
 A pine, 14 ins. dia, bears
 N. 48° E., 94 lbs. dist., marked
 P. 12 T. R. 11 E. V 00, 100 0.

A pine, 10 ins. dia, bears
 V. 07 $\frac{1}{2}$ ° E., 60 lbs. dist., marked
 P. 12 T. R. 11 E. V 00, 100 0.

A juniper, 24 ins. dia, bears
 V. 46° Th. 40 lbs. dist., marked
 P. 12 T. R. 10 E. V 00, 100 0.

A pine, 12 ins. dia, bears
 N. 14° Th. 41 lbs. dist., marked
 P. 12 T. R. 10 E. V 00, 100 0.

Land, mountainous.
 Soil, sandy and stony,
 2nd and 3rd rate. V
 timber, pine, oak and
 juniper.
 Undergrowth, small pine

and laurel.
Mountainous, heavily timbered
so lands covered with
dense undergrowth, 8 woods



N. bet. sec. 20 and 30
Over mountainous land
through heavy timber
and dense undergrowth.

32.00 Spruce, 100 ft. high, slopes
S. St.

33.00 Draw, 20 ft. deep, course S. St.

34.00 Left a sandstone, 15 x 10 x 8

in, 10 in. in the ground,

for 1/2 sec. cr., marked 4
on the S. St. for, from which

A pine, 5 in. dia., bears

S. 54° E., 17 lbs. dist., marked
4 S. St. P. P.

A juniper, 10 in. dia.,

bears N. 35° St., 19 lbs. dist.,

marked 4 S. St. P. P.

44.00 Spruce, 100 ft. high, slopes
toward the S. St.

42.00 Draw, 20 ft. deep, course
S. St.

62.00 Spruce, 20 ft. high, slopes S. St.

22.00 Draw, 50 ft. deep, course
S. St.

22.10 Trail, bears N. E. and S. St.

50.00 Left a sandstone, 15 x 12 x 6

in, 12 in. in the ground,

for cr. of sec. 19, 24, 26 and
30, marked with 4 notches

on the N. and 4 notches

by S. edges, from which

A pine, 5 in. dia.,

bears N. 19° E., 15 lbs. dist.,

marked S. St. P. P. E. S. St.

East boundary of T. 12 N. R. 10 E.

BOOK 1919

017

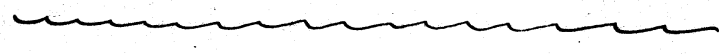
Q & Q. No other trees, suitable for marking in limits, raised mound of stones 2 ft. base, 1 1/2 ft. high, at S. of cor. pits impracticable. Land, mountainous.

Soil, sandy and stony, and and 1/4 th cote. Timber, pine, oak and juniper.

Undergrowth, laurel, sassafras and small pines.

Mountainous land, heavily timbered or land covered with dense undergrowth of sassafras.

In this sec. cor. stands on high S. slope of mountain 800 ft. above the township cor., about 20 chs. S. of the break of the Mogollon Rim.



The township line from the cor. of secs. 19, 24, 29 and 30, first established by me, crosses over the impassible Mogollon Rim about 20 chs. N., and since the land consists of great bluffs, and deep rocky gorges, and is not adapted for grazing or agricultural, I discontinue the survey of the township line at the cor. of secs. 19, 24, 29 and 30. In order to regain the township line on top of the Mogollon Mesa, above

Then run, I run West from
the cor. of sec. 19, 24, 25 and 30,
for 50 fathoms; and thence
North on Auxiliary Meridian
to a point, from which I
can run east to the
theoretical township line.

West on Auxiliary Base line
bet. sec. 24 and 25.

Proceed over mountainous
land through heavy timber
and dense undergrowth.

4.00 Draw, 100 ft. deep, slopes
S. H.

10.00 2 piers, 50 ft. high, slopes
S. H.

1919

4.000 Set a sand stone, 18x8x6
in. in. in the ground, for
cor. of sec. cor., marked
on the N. face, from which
a gauge, 10 in. dia, bears
N. 51° E, 42 lbs. dist, marked
1/2 V 2 X 2 V.

Run out, 5 in. dia, bears
S. 24° W, 10 lbs. dist, marked
1/2 V 2 X 2 V.

4.200 Truck, 10 lbs. wide, good
cold water, in ravine, 100 ft
deep, course S. H.

60.00 Ridge, 100 ft. high, bears
S. 42° W.

8.000 Set a sand stone, 18x12x4 in.,
1/2 in. in the ground, for
cor. of sec. 20, 24, 25 and 26,
marked with 1 notch on E.
and 2 notches on the S.
edges; from which
Run out, 10 in. dia, bears
N. 51° E, 19 lbs. dist, marked

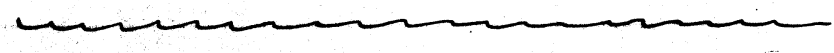
BOOK 1919

41 (P. 12 N R. 10 E T. 4 R. 10)
 An oak, 12 in. dia, base
 N. 60° E, 70 lbs. dist.
 marked P. 12 N R. 10 E T. 4 R. 10

A pine, 12 in. dia, base
 N. 112° E, 61 lbs. dist. marked
 P. 12 N R. 10 E T. 4 R. 10

An oak, 10 in. dia, base
 N. 60° E, 50 lbs. dist.
 marked P. 12 N R. 10 E T. 4 R. 10

Land, mountainous.
 Soil, sandy, red color.
 Timber, pine, oak and
 juniper.
 Undergrowth, laurel, small
 birch and chopchall.
 Mountainous, heavily timbered
 or lands covered with
 dense undergrowth & brush.



North on Auxiliary Meridian
 bet. sec. 25 and 27.
 Over mountainous land
 through heavy timber and
 dense undergrowth.

- 19.00 draw, 100 ft. deep, course
 S. H.
- 20.00 T. pine, 100 ft. high, slopes
 toward S. H.
- 22.00 A pine, 24 in. dia, on line, I
 mark with 2 notches on the
 N. and S. sides.
- 23.00 draw, 20 ft. deep, course S. H.
- 4.00 set a sandstone 10 x 12 x 10
 10 in., 10 in. in the ground,
 for 1/2 sec. cor, marked 2
 on the S. face, from which

East boundary of P. & N. R. 10

BOOK 1919

6000 A pine, 8 ins. dia, bears N. 61° E, 28 lks. dist, marked
24 & 25

A juniper, 6 ins. dia, bears N. 75° E, 9 lks. dist, marked
26 & 27

6200 Ridge, 100 ft. high, bears N. E. and S. W. Scattering timber
25000 a saw, 25 ft. deep, across S. W.

6000 The true point for cor. of
10, 14, 20 and 24, falls
on a stone in place, 10 x 10 x
5 ft. above ground. At
the exact point, I cut a
cross (X) for cor. of lines
10, 14, 20 and 24, and marked
a notch on E. side of cross and
a notch on the S. side of
cross, from which

An oak, 8 ins. dia, bears N. 60° E, 11 lks. dist, marked
28 & 29

A pine, 16 ins. dia, bears N. 87° E, 14 1/2 lks. dist, marked
30 & 31

An oak, 10 ins. dia, bears N. 10° E, 14 lks. dist, marked
32 & 33

No other trees in limits, sand
mound of stone, 2 ft. base, 12
ft. high on rock ledge N. of
S. W. site indefinable.

Land, mountainous.
Soil, sandy and stony, and
and 4th rate.

Timber, pine, oak and juniper.
Undergrowth, small pine, oak
brush and laurel.

Mountainous, heavily timbered
so lands covered with
dense undergrowth same

East boundary of T. 27, R. 10 E.

BOOK 1919

✓ Overcast at noon prevented taking the latitude.

August 13, 1904

August 14, 1904. at 10^h 10^m. A.M. L.M.T. I set off $30^{\circ} 25' \frac{1}{2}'' N$ on the lat. arc, $14^{\circ} 21' \frac{1}{2}'' N$ on the decl. arc.

✓ and determine a meridian at cen. to sec. 13, 14, 23 & 24

North on Auxiliary Meridian bet. sec. 13 and 14

Over mountainous land through scattering timber and dense undergrowth.

4.50 Ravine 100 ft. deep, course N. W. and

12.00 Ridge spur, 200 ft. high, slopes S. 50° E.

26.100 by bed of stream, 5 lks.

Wider, in ravine, 50 ft. deep, course S. 20° E.

40.00 Set a sand stone, 24x10x5 in., 18 in. in the ground, for cor. sec. 13, marked #

on the N. face; from which

A pine, 14 in. dia, base N. 20° E, 119 lbs. dia, marked # 1, 13, 14, 23, 24

A pine, 10 in. dia, base S. 25° E, 110 lbs. dia, marked # 1, 14, 23, 24

Over spurs and draws.

25.00 Ridge spur, 200 ft. high, slopes toward the N. E.

descend into S. Side Gub.

50.00 Set a sand stone, 15x12x10 in., 12 in. in the ground, for cor. of sec. 11, 12, 13 and 14,

marked with iron on the S. E. and 4 notches on the N. edge, from which

A pine, 10 in. dia, base N. 65° E, 111 lbs. dia, marked # 1, 11, 12, 13, 14, 23, 24

Am oak, 12 ins. dia, base N.
50° E, 27 lbs. dia, marked
T. D. N. D. Co. V, 6 D. V.

Y pine, 28 ins. dia, base N.
40° th, 60 lbs. dia, marked
T. D. N. D. Co. V, 14 D. V.

Q oak, 14 ins. dia, base N.
34° th, 50 lbs. dia, marked
T. D. N. D. Co. V, 11 D. V.

Land, mountainous.
Lois, sandy and stony,
red and yellow color.
Timber, scattering pines,
oak, and juniper.
Undergrowth, small grass
and pines, sage and
sandal.

Mountainous or lands covered
with dense undergrowth
sagebrush.

~~~~~

North on Auxiliary Meeting  
bet. sec. 11 and 12.

Across over mountainous  
land through scattering  
timber and dense under-  
growth.

4.40 Foot of descent, 150 ft. below  
ridge N, base N. E. and S. W.  
Over bottom through heavy  
timber.

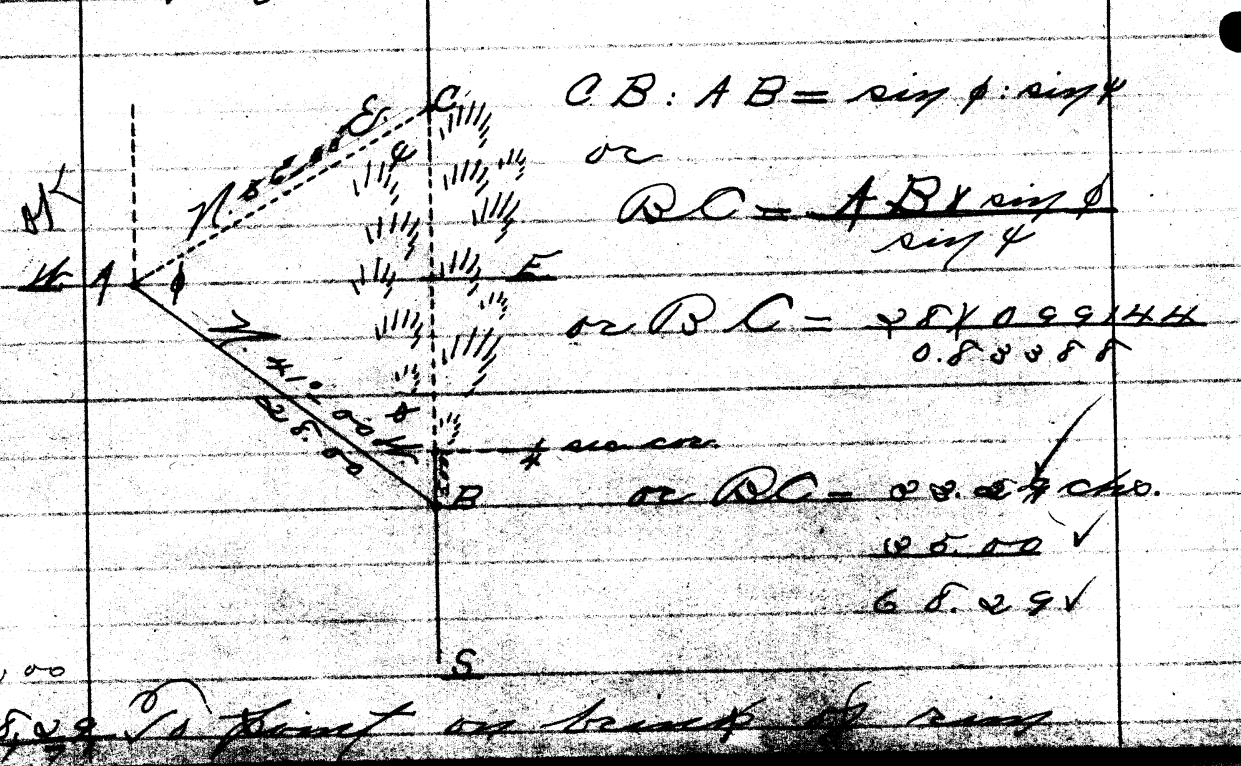
5.60 Tunnel wagon road, base N. E.  
and S. W.

10.20 Spring branch, 5 lbs. wider,  
1 ft deep, in banks 2 ft deep,  
course S. 50° E. Over bottom.

12.00 Post Seed Creek, 10 lbs.  
wider, 2 ft. deep, cold water,  
in banks 2 ft. deep, course  
S. 50° th. Over bottom.

BOOK 1919

1450 Around steep slope  
of mountain  
26. of Ridge ... 200 ft above  
... slope ... descend  
4000 set in ... 18 x 14 x 5  
... in the ground  
... worked in  
... No suitable  
... raised  
mound of stone, 2 ft. base,  
1 1/2 ft. high, ... fits  
...  
... top of the  
Mesquite Mesa; the line  
is unmeasurable; there-  
fore I, Spain ...  
to a point for triangulation  
and set a flag  
from the flag 5 ch. ... of  
the ... I run  
North ... that, on base  
for triangulation, ... 26.00  
ch. From this point, a  
flag on line on summit of  
Mesa, 100 ft. above ...  
bears N 56° 30' E.  
From the flag on the Mesa, the  
flag at A bears South 56° 30'  
of the N





East boundary of T. 14 N. R. 10 E.

1000 ft. above C. Verde Creek,  
 base C. and th. At this  
 point I set a sand stone  
 25 x 14 x 12 in. in mound of  
 stone, for th. P. marked  
 th. P. on the st. face, from  
 which a sugar pine, 25 in.  
 diam, bears T. 10 1/2 th., 87 lbs.  
 dist, marked th. P. & P. (7)

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

Around gradually S. slope  
 through heavy timber and  
 scattering undergrowth.

2500 Summit of Mogollon divide,  
 bet Colorado and Tonto Basins  
 1000 ft. above base, bears N. E.  
 and N. th. Thence over  
 great Mogollon Mts, gradual  
 N. slope.

8000 Set a sand stone, 18 x 14 x 5 in,  
 12 in. in the ground, for cor.  
 of recs. 1, 2, 11 and 12, marked  
 with 1 notch on E. and 0  
 notches on the S. edges; from  
 which

A pine, 16 in. dia, bears N.  
 20 1/2 E., 60 lbs. dist, marked T.  
 10 1/2 N. R. 10 E. 11 (P. P.)

A pine, 50 in. dia, bears  
 N. 10 1/2 E., 70 lbs. dist, marked  
 T. 14 N. R. 10 E. 14 (P. P.)

A pine, 24 in. dia, bears  
 N. 50 th., 40 lbs. dist, marked  
 T. 14 N. R. 10 E. 11 (P. P.)

A pine, 35 in. dia, bears  
 N. 50 th., 44 lbs. dist, marked  
 T. 14 N. R. 10 E. 12 (P. P.)

and mountains,

BOOK 1919

Soil sandy and stony, and  
and with rate  
Timber, pine, fir, oak  
and juniper  
Undergrowth, laurel, small  
plants and chaparral.  
Mountainous, heavily  
timbered or land covered  
with dense undergrowth  
sopochs

August 14: At this see.  
set off  $14^{\circ} 20' N$   
on the decl. base, and at  
 $10^{\text{th}}$  or  $11^{\text{th}}$  m.f., observe the sun  
on the meridian; the  
resulting latitude is  
 $24^{\circ} 27' N$  which is correct.

~~~~~

East on a true line,
Auxiliary Base, bet. see.
and V. P.

Over Mogollon Mesa through
heavy timber and soft
terry undergrowth.

1.00 Summit of divide, 5 ft. above
see. cor., bet. Colocada and
Porto Basins, base N. E. and S. W.
descend gradually.

2.00 Point of impossibly rim
bluffs 500 ft. high, base
N. E. and S. W.

At this point, I set
an iron stone, $15 \times 12 \times 10$ ins,
10 ins in the ground, for
St. P. marked V. P. on the
N. face; raised mound of
stone, 2 ft. base, $\frac{1}{2}$ ft. high
N. of cor., pits impracticable.
At this point, I set a

4.000 Set a quartz stone, 15 1/2 x 4
 1/2 in., 1 1/2 in. in the ground
 for 1/4 sec. cor., marked 1/4
 for the N. face; from which
 a line, 20 in. dig, bears
 N. 20° E., 31 lbs. dig, marked
 1/4 L, 1/4 D, 1/4 S.
 A line, 24 in. dig, bears S.
 89° W., 26 lbs. dig, marked
 1/4 L, 1/4 D, 1/4 S.

5.4.00 Stream, 10 lbs. wide, improving
 2 1/2 ft. deep, course N. 20° W.

5.4.55 Same stream, 10 lbs. wide,
 course N. 10° E.

5.6.05 G. fir, 24 in. dig, on line,
 mark with 2 notches on
 the N. and S. sides.

5.6.60 Intersect 3rd Standard
 Parallel N., 10.00 chs. E. of the
 1/4 sec. cor. bet. secs. 6 and 86.
 which is a decayed post,
 with marks all destroyed,
 and witnessed as described
 by the surveyor general.
 At point of interesting
 set a temp. cor. for cor. of
 T. 12 N., R. 10 and 11 E.;
 until I can retrace the
 3rd. Stand. N. Parallel and
 determine the error of
 closure.

1919

Land, rolling and level.
 Soil, sandy, and calc.
 timber, of pine and fir.
 Undergrowth, small pines.
 Heavily timbered lands,
 8.49 chs.

Aug. 14, 1904.

Aug. 16, 1904 at 8 1/2 A.M. hgt. I set off 34° 27 1/2' 01" on the
 decl. arc: 23° 46' N. on the decl. arc. and determine
 a true meridian at the 1/4 cor. of secs. 1 and 6;
 having found the error

East boundary of T. 12 N., R. 10 E

BOOK 1919

I close in the sec
 Standard Parallel N.
 land reserved said line;
 I continue the township
 line bet. secs. 1 and 6
 on N. to an intersection
 of the sec Standard
 Parallel, as reserved by
 me at a point 885 chs. E. of 1/4 sec. 1 to sec. 26.
 At this point of intersection
 set a sand stone
 6 x 16 x 8 ins., ²⁷/₃₂ ins. in the
 ground, for closing
 corner of T. 12 N., R. 10 E.
 10 and 12 E., marked
 C. E. on S. face, with
 6 grooves on the S. face
 of the face; from which
 a pin 20 ins. dig, bears
 S 85 E, 50 lbs. dist.
 marked T. 12 N., R. 10 E.
 C. E. on S. face.
 A pin, 20 ins. dig,
 bears S. 10 W, 50 lbs. dist.
 marked T. 12 N., R. 10 E.
 S. 10 W.

Aug. 16, 1904.

~~~~~

Latitudes, Departures and Closing Error

| Line | Bearing       | Dist   | Latitudes |        | Departures |        |
|------|---------------|--------|-----------|--------|------------|--------|
|      |               |        | N.        | S.     | E.         | W.     |
|      |               | Ch.    | Ch.       | Ch.    | Ch.        | Ch.    |
| 1    | Red Hat       | 478.53 |           |        |            |        |
| 2    | " North       | 478.00 | 478.00    |        |            | 478.53 |
| 3    | S. P. & Sand  | 479.02 | 0.7.25    |        | 479.02     |        |
| 4    | E. Red Hat    | 480.45 |           | 480.45 |            |        |
| 5    | Confessory    |        |           |        | 0.49       |        |
| 6    | W. Slope      | 482.20 | 480.45    | 479.51 | 478.53     |        |
| 7    |               | 480.45 |           | 478.53 |            |        |
|      | Errors in lat | 1.80   |           | dup    | 0.98       |        |

General Description

This township is situated below and above the great Mogollon Dism. There are several gently valleys under the rim where large crops of hay and vegetables are raised. Above the rim on the Mogollon Mesa, the land is gently rolling toward the



## East Boundary of Fort, P. S. C.

BOOK 1918

and traversed by several  
mountain valleys.

The timber is pine  
and fir with some  
cedar, oak and juniper.

This section of the  
country is well watered  
by creeks, springs &  
fountain wells.

The land below the  
Mogollon Rim should  
all be subdivided, and  
most of the land above  
the rim should also be  
subdivided since it is  
adapted to grazing  
and agricultural

The rim, proper,  
embracing a strip of land  
about one mile wide  
and extending across  
the township, should not  
be subdivided, since it is  
unsuitable and not  
adapted to grazing  
or agricultural

Chas. L. Campbell  
U. S. Dept. Survey

Aug. 14, 1904

No one authorized  
to administer oaths, other  
than myself being avail-  
able without great  
delay, inconvenience and  
expense, I administered  
the required testimony  
and final oaths.

Chas. L. Campbell  
U. S. Dept. Survey

LIST OF NAMES.

A list of the names of the individuals employed by Chas 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 East  
Part of T 10 North, R. 10 East

showing the respective capacities in which they acted:

Oliver B Raser \_\_\_\_\_, Chainman. ✓

C. H. Goetz \_\_\_\_\_, Chainman. ✓

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

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

Chas M Brown \_\_\_\_\_, Axman. ✓

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

\_\_\_\_\_, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Chas L Campbell  
 \_\_\_\_\_, United States Deputy Surveyor, in surveying all

those parts or portions of the East Boundary of  
Township No. 10 North,  
Range No. 10 East

\_\_\_\_\_ of the Gilgud  
East River meridian, State 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

Oliver B Raser \_\_\_\_\_, Chainman. ✓

C. H. Goetz \_\_\_\_\_, Chainman. ✓

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

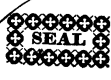
\_\_\_\_\_, Moundman.

Chas. M. Brown \_\_\_\_\_, Axman. ✓

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

\_\_\_\_\_, Flagman.

Subscribed and sworn to before me this 16th }  
 day of August, 1914 }



Chas L Campbell  
U. S. Deputy Surveyor

19722  
BOOK 1919

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Chas. L. Campbell, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from Hon. Frank S. Ingalls United States Surveyor General for Arizona, bearing date of the 18th day of April, 1894, 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

East Boundary of Township No. 12 North Range No. 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.

Chas. L. Campbell  
United States Deputy Surveyor.

Subscribed by said Chas. L. Campbell and sworn to before me }  
this 21st day of Aug, 1904, 1894



W. H. Stewart  
Clerk District Court in and for  
Coconino County Arizona

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Phoenix, Arizona, December 24, 1904, 1894

The foregoing field notes of the survey of the East Bdy. of T. 12 N., R. 10 E. of the Gila and Salt River Base and Meridian, in the territory of Arizona

executed by Chas. L. Campbell under <sup>my</sup> ~~his~~ contract No. 116, dated April 18, 1904, 1894, 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.~~