

1899

descript Salt River Dist 14/07
E.V.

FIELD NOTES

BOOK 1899

OF THE SURVEY OF THE

West boundary and the
fractional north boundary of
T 11 N R 13 E

1899.

Of the Great Salt River Base Meridian,

AS SURVEYED BY

Jesse B. Wright, United States Deputy Surveyor,

Under his Contract No. 133, dated May 26, ~~189~~ ¹⁹⁰⁵

Survey commenced Sept 4th, ~~189~~ ¹⁹⁰⁵

Survey completed Sept 6th, ~~189~~ ¹⁹⁰⁵

1899

NAMES AND DUTIES OF ASSISTANTS.

Joseph R Cook Chairman
Arthur Coyle Chairman
Hugh Fuller Assessor
Julian Jannigan Assessor
William Peck Workman
Harry Mallory Workman
William Edmunds Foreman

INDEX DIAGRAM.

Township 11 N, Range 13 E

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

Meanders Page.....

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BOOK 1899

WE, Joseph R Cook and Arthur Pogue
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
The West and North Ends of T11NR13E

Joseph R Cook, Chainman.
Arthur Pogue, Chainman.

Subscribed and sworn to before me this 19th
day of August, ~~189~~¹⁹⁰⁵

W. G. Powers



WE, William Peach and Harry Mallory
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
The West and North Ends of T11NR13E

William Peach, Moundman.
Harry Mallory, Moundman.

Subscribed and sworn to before me this 19th
day of August, ~~189~~¹⁹⁰⁵

W. G. Powers



WE, Hugh Fuller and Julian Jurnigan
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
The West and North Ends of T11NR13E

Hugh Fuller, Axman.
Julian Jurnigan, Axman.

Subscribed and sworn to before me this 19th
day of August, ~~189~~¹⁹⁰⁵

W. G. Powers



I, William Edmunds, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of
The West and North Ends of T11NR13E

William Edmunds, Flagman.

Subscribed and sworn to before me this 19th
day of August, ~~189~~¹⁹⁰⁵

W. G. Powers



Chains.

Survey commenced Sept. 4th, 1905, and executed with a Young and Sons' light mountain transit, No. 6492, with Smith's patent solar attachment on side; the horizontal limb having two opposite verniers, reading to 1" of arc, which is also the least count of the latitude and declination arcs.

I begin at post No. 17, on the south boundary of the Black Mountain Forest Reserve, which is an iron post, capped with brass, marked and witnessed as described in the field notes furnished by the Surveyor General.

At this corner at 8 hrs. 36 mins. P.M., 1.m.t., I observe Polaris at eastern elongation in accordance with instructions contained in the Manual, and mark a point in the line thus determined by a tack in a stake, driven 6 chains N. of my station. *determine a true meridian which falls of Polaris meridian.*

Sept. 5th: At 7.30 A.M. I lay off the azimuth of Polaris 1° 27' to the West, and mark the meridian by a cross on a stone, set firmly in the ground, 6 chs. N. of my station.

At 8:00 A.M. I set off 34° 18' N. on the latitude arc, and 6° 56' N. on the declination arc, and determine a true meridian with the solar, by a mark on the stone set 6 chs. N. of my station, which mark falls 0.5 ins west of the cross on the stone; hence I assume that the adjustments of the instrument are practically correct.

Magnetic variation 14° 40' E. *Lat. 34° 17' 50" N. Long. 111° 01' 49" W.*

From the corner above described, I run North bet. secs. 31 and 36, on the West bdy. of Tp. 11 N., R. 13 E.

40.00 Descending, through pine timber and scrub oak and juniper. Set a granite stone 24 x 10 x 3 ins., 15 ins. in the ground, for 1/4 sec. cor., marked 1/4 on W. face, and raise a mound of stone 2 ft. base, 1 1/2 ft. high, W. of cor. Whence,

A pine tree 10" diam. bears N. 41 1/2° W., 38 lks. dist., marked 1/4 S 36 B T.

An oak 24" diam. bears N. 33 3/4° E., 44 lks. dist., marked 1/4 S 31 B T.

Begin steep descent.

56.00 Canyon, 2 chs. wide, 100 ft. deep, course East. Ascend.

65.00 Top, and begin descent through dense scrub oak and manzanita.

80.00 Set a sandstone 30 x 12 x 12", 24" in the ground, for cor. of secs. 25, 30, 31 and 36, marked with 1 notch on the S. and 5 notches on the N. edges, and raise a mound of stone 2 ft. base, 1 1/2 ft. high, W. of cor. From which

A pine 9" diam. brs. S. 51 1/2° W., 18 lks. dist., marked T 11 N R 12 E S 36 B T.

A pine 14" diam. brs. S. 66° E., 46 lks. dist., marked T 11 N R 13 E S 31 B T.

A pine 15 ins. diam. bears N. 3 1/2° W., 86 lks. dist., marked T 11 N R 12 E S 25 B T.

No other trees available.

Land, mountainous.

Soil, 2nd and 3rd rate.

Timber, pine, oak and juniper.

Undergrowth, scrub oak and manzanita.

Land mountainous, heavily timbered, or covered with dense undergrowth, 80.00 chs.

North bet. secs. 25 and 30.

Over mountainous land, through dense scrub oak and scattering pine timber.

6.00 Gulch, 30 lks. wide, course N. 40° E. Ascend.

15.00 Top of ascent. Descend.

28.40 Creek, 30 lks. wide, with clear running water, course S. 45° W. Ascend.

Chains.

- 33.50 Top of ascent. Descend over broken ground.
- 40.00 Set a granite stone 24 x 14 x 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 1/2 ft. high, W. of cor. From which,
 A pine 36 ins. diam. bears S. 79° W., 39 lks. dist., marked $\frac{1}{4}$ S 25 B T.
 An oak 6" diam. brs. S. 67° E., 45 lks. dist., marked $\frac{1}{4}$ S 30 B T.
- 42.80, Creek, 30 lks. wide, with clear running water, constant stream, course S. 47° W.
 Ascend through dense Sumach and scrub pine.
- 45.30 Gulch 20 lks. wide, 50 ft. deep, course S. 40° E.,
- 74.00 Read, brs. E. and W.
- 80.00 Set a malpais stone 30 x 10 x 10 ins., 22 ins. in the ground, for cor. of secs. 19, 24, 25 and 30, marked with 2 notches on S. and 4 notches on N. edges, and raise a mound of stone 2 ft. base, 1 1/2 ft. high, W. of cor. From which,
 An oak 10 ins. diam. brs. N. 58 $\frac{1}{2}$ ° E., 82 lks. dist., marked T 11 N R 13 E S 19 B T.
 A juniper 30 ins. diam, bears N. 46° W., 60 lks. dist., marked T 11 N R 12 E S 24 B T.
 A juniper (leaning) 34 ins. diam. bears S. 9° E., 131 lks. dist., marked T 11 N R 13 E S 30 B T.
 A pine 15 ins. diam. bears S. 64 $\frac{1}{2}$ ° W., 60 lks. dist., marked T 11 N R 12 E S 25 B T.
- Land, mountainous.
 Soil, 2nd and 3rd rate.
 Timber, pine, oak, juniper, walnut and cottonwood.
 Land, mountainous, heavily timbered, or covered with dense undergrowth, 80.00 chs.
-
- North bet. secs. 19 and 24.
 Ascending over rocky ground.
- 20.00 Enter dense manzanita.
- 40.00 Set a sandstone 30 x 14 x 8 ins., 22 ins. in the ground, for 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 10 ins. diam. brs. S. 64 $\frac{1}{4}$ ° E., 29 lks. dist., marked $\frac{1}{4}$ S 19 B T.
 A pine 12 ins. diam. brs. S. 39 $\frac{1}{4}$ ° W., 50 lks. dist., marked $\frac{1}{4}$ S 24 B T.
- 72.60 Thence over broken ground. *descending*
- 76.00 Gulch, course S. 60° W.
- 78.80 Gulch, course S. 60° E.
- 80.00 Ascend.
 Set a sandstone 24 x 15 x 15 ins., 18 ins. in the ground, for cor. of secs. 13, 18, 19 and 24, marked with 3 notches on S. and 3 notches on N. edges, and raise a mound of stone 2 ft. base, 1 1/2 ft. high, W. of cor.. From which,
 A spruce pine 12 ins. diam. brs. N. 71° W., 18 lks. dist., marked T 11 N R 12 E S 13 B T.
 A pine 30 ins. diam. brs. S. 33° E., 96 lks. dist., marked T 11 N R 13 E S 19 B T.
 A spruce pine 16 ins. diam. brs. N. 52° E., 40 lks. dist., marked T 11 N R 13 E S 18 B T.
 A juniper 20 ins. diam. brs. S. 30 $\frac{1}{2}$ ° W., 60 lks. dist., marked T 11 N R 12 E S 24 B T.
- Land, mountainous.
 Soil, rocky, 2nd and 3rd rate.
 Timber, pine, oak, spruce, juniper.
 Land mountainous, heavily timbered, or covered with dense undergrowth, 80.00 chs.
-

Chains.

North bet. secs. 13 and 18.
Ascending, through dense spruce, oak, and maple, over broken ground, on south side of high bluff.

35.00 Gulch, course S. 40° E.
Begin steep ascent.

40.00 Cor. point falls on bluff, on perishable ground.
Ascend abruptly 200 feet.

51.60 Top of bluff, where I set a witness cor. to 1/4 sec. cor.
A sandstone 30 x 18 x 6 ins., 23 ins. in the ground, marked W C 1/4 on the W. face, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor. From which,
A pine 24 ins. diam. brs. N. 74 1/2° E., 22 lks. dist., marked W C 1/4 S 18 B T.
A pine 12 ins. diam. brs. S. 83 1/2° W., 61 lks. dist., marked W C 1/4 S 13 B T.
Thence over high mesa, through heavy pine timber.

66.20 Head of gulch, course S. 45° E.

80.00 Set a sandstone 24 x 10 x 18 ins., 18 ins. in the ground, for cor. of secs. 7, 12, 13 and 18, marked with 4 notches on S. and 2 notches on N. edges, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor. From which,
A pine 15 ins. diam. brs. N. 15° E., 29 lks. dist., marked T 11 N R 13 E S 7 B T.
A pine 12 ins. diam. brs. S. 35 1/2° E., 47 lks. dist., marked T 11 N R 13 E S 18 B T.
A pine 10 ins. diam. brs. S. 47° W., 5 lks. dist. marked T 11 N R 12 E S 13 B T.
A pine 18 ins. diam. brs. N. 22° W., 23 lks. dist., marked T 11 N R 12 E S 12 B T.
Magnetic variation 15° 15' East.
Land, mountainous.
Soil, rocky, 2nd and 3rd rate.
Timber, heavy pine, oak, and spruce.
Land mountainous, heavily timbered, or covered with dense undergrowth, 80.00 chs.

Sept. 5th, 1905.

Sept. 6th: At 7:30 A.M./l.m.t., I set off 34° 21' N., on the lat. arc; 6° 35' N. on the decl. arc, and determine a meridian with the solar at the cor. of secs. 7, 12, 13 and 18, just described.
Thence I run,
Northbet. secs. 7 and 12.
Over stony ground, through dense pine timber.

18.00 Canyon, 5 chs. wide, 150 feet deep, brs. East.

34.00 Old corral, 3 chs. E.

35.50 Small ravine, course N.E.; ascend.

40.00 Set a sandstone 24 x 12 x 8 ins., 18 ins. in the ground, for 1/4 sec. cor. marked 1/4 on W. face, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor. From which,
A pine 18 ins. diam. brs. S. 46° E., 18 lks. dist., marked 1/4 S 7 B T.
A pine 10 ins. diam. brs. S. 60° W., 37 lks. dist., marked 1/4 S 12 B T.

72.00 Descend.

76.80 Bottom of bluff. Here I establish a witness corner to Cor. of secs. 6, 7, 1 and 12, by marking a sandstone ledge 6 ft. N. and S. x 8 ft. E. and W., with a cross, and W C, with 1 notch N. and 5 notches S. of cross, and raised a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cross. From which,
A pine 18 ins. diam. brs. S. 0° 30' E., 18 lks. dist., marked T 11 N R 13 E S 7 W C B T.
A pine 18 ins. diam. brs. N. 85° W., 39 lks. dist., marked T 11 N R 12 E S 1 W C B T.
No other trees available.

80.00 Cor. point falls on side of canyon, 500 ft. deep.

Correction by T. H. Fischer 1934

Chains.

Land, mountainous.
Soil, rocky, 2nd and 3rd rate.
Timber, heavy pine and scattering oak.
Land mountainous, heavily timbered, or covered with dense undergrowth, 80.00 chs.

North bet. secs. 1 and 6.
From the Witness Corner to secs. 1, 6, 7, and 12, just described, I set a flag on line on the opposite bank of canyon and turn an angle of 90° to the left, and measure a base line of 15 chains to the West. At 10 chs. on this line I measure the angle bet. point of witness cor. and flag, which is 54° 28'. Tangent 54° 28' = 1.4002 which multiplied by 10 = 14.00 chs. from Witness Cor. to flag. At 15 chs. on said base line I measure the angle bet. Witness cor. and flag, which is 43° 05'. Tangent 43° 05' = .9352, which multiplied by 15 gives 14.03 chs. from Witness cor. to flag. Hence I assume that my triangulations are correct, and 14.03 chs. as true distance from Witness Cor. to flag.



80.00 chs. minus 76.80 chs. equals 3.20 chs., from witness corner to true corner point.
14.03 chs. minus 3.20 chs. is
10.83 To flag from true corner point in canyon on line bet. secs. 1 and 6.

13.00 Top of bluff.
15.00 Enter gulch, ^{Canyon} brs. N.
26.00 Leave gulch to left. Ascend.
40.00 Set a sandstone 30 x 14 x 6 ins., 24 ins. in the ground, for 1/4 sec. cor., marked 1/4 on W. face, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor.

From which,
A pine 12 ins. diam. brs. N. 26° E., 28 lks. dist.,
Marked 1/4 S 6 B T.
A pine 15 ins. diam. brs. S. 87° W., 42 lks. dist.,
Marked 1/4 S 1 B T.

48.00 Top of slope, gradual descent.
74.50 Old read, Heber to Camp Verde, brs. N. 35° W. and S. 35° E.

80.00 Set a sandstone 24 x 12 x 4 ins., 18 ins. in the ground, for cor. of Tps. 11 and 12 N., Rs. 12 and 13 E., marked with 6 notches on N., S., E., and W. edges, and raise a mound of stones 4 ft. base, 2 1/2 ft. high, S. of cor.

From which,
A pine 24" diam. brs. N. 24° E., 117 lks. dist., marked T 12 N R 13 E S 31 B T.
A spruce pine 24 ins. diam. brs. S. 47° E., 24 lks. dist. Marked T 11 N R 13 E S 6 B T.
A pine 30 ins. diam. brs. S. 34° W., 40 lks. dist., marked T 11 N R 12 E S 1 B T.
A spruce pine 40 ins. diam. brs. N. 46° W., 107 lks. dist., marked T 12 N R 12 E., S 36 B T.

Land, mountainous.
Soil, rocky, 2nd and 3rd rate.
Timber, heavy pine and spruce.
Land mountainous, heavily timbered, or covered with dense undergrowth, 80.00 chs.

At 11 h. 59 m. A.M., I set off 6° 52' N. on lat. arc, and observe the sun on the meridian. the resulting lat. is 34° 23' N., which is within 1 minute of the proper lat.

Chains

- From the cor. of Tps. 11 and 12 N., Rs. 12 and 13 E., just described, I run,
 0 East bet. secs. 6 and 31.
 Over mountainous land.
- 7.00 Enter dense quaking ash thicket, maple and locust.
 21.00 Leave thicket.
 22.30 Road, Heber to Camp Verde, brs. N. 30° E. and S. 30° W.
 27.00 In same road.
 28.40 Leave road.
 31.00 Enter same road, brs. E. and W.
 38.40 Leave road.
 38.47 Set a sandstone 24 x 10 x 6 ins., 15 ins. in the ground, for 1/4 sec. cor., marked 1/4 on N. face, and raise a mound of stone, 1 1/2 ft. high, 2 ft. base, N. of cor. From which,
 A pine 30 ins. diam. brs. N. 20 1/2° E., 35 lks. dist., marked 1/4 S 31 B T.
 An oak 10 ins. diam. brs. S. 15° E., 34 lks. dist., marked 1/4 S 6 B T.
- 57.25 Verde and Heber road, brs. N. 30° W. and S. 30° E.
 78.47 Set a sandstone 24 x 10 x 4 ins., 18 ins. in the ground, for cor. of secs. 5, 6, 31 and 32, marked with 1 notch on W. and 5 notches on E. edges, and raise a mound of stones 2 ft. base, 1 1/2 ft. high, West of cor. From which,
 A pine 24 ins. diam. brs. N. 21° E., 13 lks. dist., marked T 12 N R 13 E S 32 B T.
 A pine 15 ins. diam. brs. S. 62 1/2° E., 20 lks. dist., marked T 11 N R 13 E S 5 B T.
 A pine 15 ins. diam. brs. S. 20° W., 73 lks. dist., marked T 11 N R 13 E S 6 B T.
 A pine 15 ins. diam. brs. N. 24 1/2° W., 29 lks. dist., marked T 12 N R 13 E S 31 B T.
 Land, mountainous, and heavily timbered.
 Soil, rocky, 2nd and 3rd rate.
 Timber, pine, spruce and oak.
 Land, mountainous, heavily timbered, or covered with dense undergrowth, 78.47 chs.
-
- East bet. secs. 5 and 32.
 Over mountainous land, heavily timbered.
- 25.30 Trail, brs. N. and S.
 40.00 Set a sandstone 24 x 10 x 8 ins., 18 ins. in the 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. From which,
 A pine 10 ins. in diam. brs. N. 77 1/2° W., 26 lks. dist., marked 1/4 S 32 B T.
 A pine 30 ins. diam. brs. S. 44° W., 56 lks. dist., marked 1/4 S 5 B T.
- 80.00 Descend through dense pine and oak timbr.
 Set a sandstone 24 x 10 x 8 ins., 18 ins. in the ground, for cor. of secs. 4, 5, 32 & 33, marked with 2 notches on W. and 4 notches on E. edges, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor. From which,
 A pine 30 ins. diam. brs. N. 26° E., 40 lks. dist., marked T 12 N R 13 E S 33 B T.
 A pine 24 ins. diam. brs. S. 15° E., 22 lks. dist., marked T 11 N R 13 E S 4 B T.
 A pine 36 ins. diam. brs. S. 63° W., 15 lks. dist., marked T 11 N R 13 E S 5 B T.
 No other trees available.
 Land mountainous and heavily timbered.
 Soil, rocky, 2nd and 3rd rate.
 Timber, pine and oak.
 Land mountainous, heavily timbered, or covered with dense undergrowth, 80.00 chs.
 Here I discontinue the survey of the N. bdy. of T. 11 N.,

chains

R. 13 E., there being no agricultural lands that a further survey might include.

Sept. 6th, 1905.

See Description

The east boundary of this township is over broken into land, gradually ascending thro' several mountains and scrub oak the east or northern two miles being over a high rolling mesa broken by deep canyons and heavily timbered with pine and oak.

The north boundary is over a high rolling mesa heavily timbered with pine and oak, covered in places with dense quaking oak.

Jesse B. Wright
U. S. Dep. Sur.

LIST OF NAMES.

BOOK 1899

A list of the names of the individuals employed by Jose B. Wright

a, United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of

The West by and from North by T11N R13E ✓

showing the respective capacities in which they acted:

- Joseph R Cook Chainman.
- Arthur Poque Chainman.
- William Peach Moundman.
- Harry Mallory Moundman.
- Hugh Fuller Axman.
- Juban Jaurigou Axman.
- William Edmunds Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Jose B. Wright

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

West by and from North by of T11N R13E ✓

of the Sala ✓

Salt River Base meridian, 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

- Joseph R Cook Chainman.
- Arthur Poque Chainman.
- William Peach Moundman.
- Harry Mallory Moundman.
- Hugh Fuller Axman.
- Juban Jaurigou Axman.
- William Edmunds Flagman.

Subscribed and sworn to before me this 20th day of October, 1895

W. G. Powers



FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

BOOK 1899

#89

I, Jesse B Wright, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from Frank S Angello United States Surveyor General for Arizona, bearing date of the 26th day of May, 1905, 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

West ldy. and Four North ldy of T 11 N R 13 E

of the Gila & Salt Base meridian, in the Territory of Arizona, which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for 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.

Jesse B Wright
United States Deputy Surveyor.

Subscribed by said Jesse B. Wright, and sworn to before me }
this 1st day of November, 1905, 1899



Clinton D. Hoover,
Clerk U.S. District Court
First District of Arizona.

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Phoenix, Arizona, Jan. 28th 1907

The foregoing field notes of the survey of the West ldy. and four North ldy of T. 11 N, R. 13 E. of the Gila and Salt River Base and Meridian in the Territory of Arizona

executed by Jesse B Wright, U.S. Deputy Surveyor under his contract No. 133, dated May 26th 1905, 1899, 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 Angello
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.