

Accepted by Dept. letter E. June 19-09.

Book M.

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BOOK 2093

2093

FIELD NOTES

2093

OF THE SURVEY OF THE

2093

Portion of Q. Body Sp to N, R, 12-8
T. 15 S. R. 23 E; A. 14

2093

Of the Gila & Salt River Base Meridian,
of ARIZONA

AS SURVEYED BY

James B. Wright, United States Deputy Surveyor,

Under his Contract No. 145, dated April 15th, 1907

Survey commenced Nov. 10, 1907

Survey completed Nov. 12, 1907

2093

2093

2093

NAMES AND DUTIES OF ASSISTANTS.

Leon G. Moore Chairman
Raymond A. Newton "
Walter J. Perceval "
Robert H. Rogers "
William H. Harrison Moderator
Benjamin H. Merrick Assessor
Duffon W. Elliott Foreman

BOOK 2093

INDEX DIAGRAM.

Township 6 - N., Range 12 - E.

| | | | | | |
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PRELIMINARY OATHS OF ASSISTANTS.

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BOOK 2093

WE Leon S. Moore, Raymond A. Newton and Walter J. Percival Robert H. Rogers
do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of

boundaries of
T. 13 S. R. 12 E., T. 18 S. R. 11 E., T. 15 S. R. 22 E., T. 14 T. 15 S. R. 27 E., T. 6 N. R. 11 T. 12 E., G. T. S. R. B. T. M.

Leon S. Moore, Chainman.
Raymond A. Newton, Chainman.
Walter J. Percival, Chainman.
Robert H. Rogers, Chainman.
M. Maude Harrison, Notary Public


Subscribed and sworn to before me this 20th
day of August, 1907
My commission expires
 Jan 11, 1911

WE William H. Harrison 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

boundaries of
T. 13 S. R. 12 E., T. 18 S. R. 11 E., T. 15 S. R. 22 E., T. 14 T. 15 S. R. 27 E., T. 6 N. R. 11 T. 12 E., G. T. S. R. B. T. M.

William H. Harrison, Moundman.
Moundman.

Subscribed and sworn to before me this 20th
day of August, 1907
My commission expires
 Jan 11, 1911


M. Maude Harrison
Notary Public

I Benjamin H. Kerrick 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

boundaries of
T. 13 S. R. 12 E., T. 18 S. R. 11 E., T. 15 S. R. 22 E., T. 14 T. 15 S. R. 27 E., T. 6 N. R. 11 T. 12 E., G. T. S. R. B. T. M.

Benjamin H. Kerrick, Axman.
Axman.


Subscribed and sworn to before me this 20th
day of August, 1907
My commission expires
 Jan 11, 1911

M. Maude Harrison
Notary Public

I, Clifton W. Elliott, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of

boundaries of
T. 13 S. R. 12 E., T. 18 S. R. 11 E., T. 15 S. R. 22 E., T. 14 T. 15 S. R. 27 E., T. 6 N. R. 11 T. 12 E., G. T. S. R. B. T. M.

Clifton W. Elliott, Flagman.

Subscribed and sworn to before me this 20th
day of August, 1907
My commission expires
 Jan 11, 1911

M. Maude Harrison
Notary Public

Survey of a Portion of the South Boundary of Tp. 6 N., R. 12 E.

chains

Survey commenced November 10, and executed with a Young and Son light mountain transit No. 6492, with solar attachment. The horizontal limb is provided with two double verniers placed opposite to each other, reading to single minutes of arc, which is also the least count of the latitude and declination arcs. The instrument was examined, tested on the true meridian at Phoenix, found correct, and was approved by the Surveyor General for Arizona, July 15, 1907.

I examine the adjustments of the transit, and correct the level and collimation errors, then, to test the solar apparatus, by comparing its indications, resulting from solar observations made during a.m. and p.m. hours with a meridian determined on Polaris, I proceed as follows:-

At the cor. of Tps. 5 and 6 N., Rs. 11 and 12 E., previously set by me, latitude $33^{\circ} 48' 38''$, longitude $111^{\circ} 09' 34''$ W, I set off $33^{\circ} 49' N.$ on the lat. arc, $17^{\circ} 10' S.$ on the decl. arc, and at 4h. p.m., l.m.t., determine with the solar a meridian and mark a point thereof, on a stone, firmly set in the ground, 5.00 chs. N. of the cor. (November 10, 1907.

At 4h. 6m. a.m. by my watch, which is correct, I observe Polaris at western elongation, in accordance with the Manual of Instructions, and mark a point in the line thus determined, on a peg driven in the ground, 5.00 chs. N. of my station.

November 11, 1907.

November 11, 1907. At 6h a.m., l.m.t., I lay off the azimuth of Polaris $1^{\circ} 26'$ to the east, and mark the meridian thus determined by cutting a small groove in the stone set last night, on which the meridian coincides with the meridian determined by the solar. At 8h 30m. a.m., I set off $33^{\circ} 49' N.$ on the lat. arc, $17^{\circ} 12' S.$ on the decl. arc, and mark a point in the meridian determined with the solar, by a cross on the stone already set 5.00 chs. N. of my station, which coincides with the meridian established by the Polaris observation.

The magnetic bearing of the true meridian, at 8h 30m a.m., is N. $15^{\circ} W.$, the angle thus determined gives the mag. decl. $15^{\circ} E.$

From the cor. of Tps. 5 and 6 N., Rs. 11 and 12 E., previously described, I run, East, along the south bdy. of sec. 31. Ascending steeply along the W. slope of high and broken mountain.

6.50
39.51

Rocky wash, 20 lks. wide, course WNW. Ascend steeper. Point for a sec. cor. falls on granite ledge in place, which I mark with a cross for exact sec. cor. point, with $\frac{1}{2}$ on N. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Ledge is 34 X 24 X 6 ins. above ground.

An oak, 5 ins. diam., brs. N. $45^{\circ} E.$, 50 lks. dist., marked S 31 B T.

An oak, 8 ins. diam., brs. S. $60^{\circ} E.$, 57 lks. dist., marked S 6 B T.

Survey of a portion of S. Bdy. of Tp. 6 North, Range 12 East.

| | |
|--------|---|
| chains | |
| 40.27 | Point of high spur; thence along N. slope of high ridge over broken land. A large amount of broken rocks which have broken away from high ledge. Fine for building or crushing. |
| 71.60 | Top of steep ascent; High point of mountain is 5.00 chs. South. Thence along the N. slope of ridge. |
| 79.51 | Set a limestone, 20 X 10 X 5 ins., 15 ins. in the ground, for cor. of secs. 5, 6, 31 and 32, marked with 1 notch on the W. and 5 notches on the E. edge, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor. Pits impracticable. Land, mountainous. Soil, sandy and gravelly; 3rd and 4th rate. Timber, oak; undergrowth, oak and mesquite. Mountainous land, exceptionally difficult to survey, 79.51 chs. |
| ----- | |
| | East along the S. Bdy. of Sec. 32. Along the N. slope of high mountain. |
| 20.00 | Canyon, 80 lks. wide, course NW. Ascend steeply. |
| 40.00 | Top of divide, extends SW. and NE. Set a granite stone, 24 X 10 X 6 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. Pits impracticable. A cedar, 8 ins. diam., brs. N. 41° E., 50 lks. dist., marked 1/4 S 32 B T. No other trees available. |
| 55:00 | Head of canyon, course SW. Ascend through dense scrub oak. |
| 80.00 | Set a sandstone, 24 X 6 X 6 ins., 18 ins. in the ground, for cor. of secs. 4, 5, 32 and 33, marked with 2 notches on the W. and 4 notches on the E. edge, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor. Pits impracticable. A cedar, 36 ins., diam., brs. S. 83° E., 300 lks. dist., marked 1/4 N 5 N R 12 E S 4 B T. An oak, 10 ins. diam., brs. N. 24° W., 106 lks. dist., marked 1/4 T 6 N R 12 E S 32 B T. Land, mountainous. Soil, stony and rocky; 4th rate. Timber, cedar and oak; undergrowth, scrub oak and mesquite. Mountainous land, exceptionally difficult to survey, 80.00 chs. |
| ----- | |
| | November 11: At noon, I set off 17° 15' S on the decl. arc and observe the sun on the meridian; the resulting lat. is 33° 49' N. |
| | East, along the S. Bdy. of Sec. 33. Ascend very steeply. |
| 12.00 | Top of main divide, brs. N. and S. |
| 30.00 | Begin steep descent down E. side of divide. |
| 40.00 | Set a sandstone, 30 X 12 X 8 ins., 22 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. Pits impracticable. An oak, 8 ins. diam., brs. N. 20° W., 94 lks. dist., marked 1/4 S 33 B T. An oak, 20 ins. diam., brs. S. 20° E., 98 lks. dist., marked 1/4 S 4 B T. |

Survey of a portion of the S. Bdy. of Tp. 6 N., R. 12 East.

chains

80.00

Descend steeply through oak and manzanita undergrowth. Set a sandstone, 30 X 10 X 10 ins., 22 ins. in the ground, for cor. of secs. 3, 4, 33 and 34, marked with 3 notches on the E. and W. edges, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor. Pits impracticable.

Land, mountainous.

Soil, stony and rocky; 3rd and 4th rate.

Timber, oak, cedar and manzanita; undergrowth, scrub oak, manzanita.

Mountainous land, covered with dense undergrowth, exceptionally difficult to survey, 80.00 chs.

East, along the S. Bdy. of sec. 34.

Over mountainous land, descending through dense manzanita and scrub oak.

40.00

Point for sec. cor. falls in canyon, 5.00 chs. wide, course SE.

45.20

Set a quartzite stone, 30 X 10 X 10 ins., 22 ins. in the ground, for witness cor. to sec. cor., marked W C on N. face, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of cor. Pits impracticable.

A cedar, 10 ins. diam., brs. S. 45° W., 85 lks. dist., marked S 3 B T.

A cedar, 10 ins. diam., brs. N. 60° E., 95 lks. dist., marked S 34 B T.

Descending steeply into box canyon, over rough and broken land.

Because of the mountainous and rough character of the land, it is impossible to continue line by the ordinary methods of surveying.

Land, mountainous.

Soil, stony and rocky: 4th rate.

Timber, oak, cedar; undergrowth, oak cedar and manzanita.

November 11, 1907.

Survey of Portion of Tp. 6 North, Range 12 East.

| | |
|--------|--|
| chains | November 12, 1907: At 7:30 a.m., l.m.t. I set off $17^{\circ} 25' S$ on the decl. arc and $33^{\circ} 54' N$ on the lat. arc, and determine a true meridian with the solar at the cor. of Tps. 6 and 7 North, Rs. 11 and 12 East. |
| | Thence I run, From the cor. previously set by me, East along the N. Bdy. of sec. 6. Ascending over mountainous land. |
| 4.00 | Gulch, 20 lks. wide, course WNW; thence along S. slope of ridge, extending N. and S., ascending. |
| 25.00 | Top of gap in ridge, extends N. and S.; descend abruptly. |
| 39.00 | Set a granite stone, 24 X 8 X 6 ins., 18 ins. in the ground, for $\frac{1}{2}$ sec. cor., marked $\frac{1}{2}$ on N. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable. |
| 44.00 | Branch of Oak Creek, 1.00 ch. wide, course SW. |
| 46.00 | Trail, brs. NE. and SW.; ascend abruptly. |
| 69.00 | Top of ascent to mesa. |
| 79.00 | Set a granite stone, 40 X 20 X 10 ins., 30 ins. in the ground, for cor. of secs. 5, 6, 31 and 32, marked with 1 notch on the W. and 5 notches on the E. edge, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable. |
| | Land, mountainous. Soil, stony and rocky: 3rd and 4th rate Timber, scattering oak and cedar; undergrowth, oak and manzanita and greasewood. Mountainous land, exceptionally difficult to survey, 79.00 chs. |
| | ----- East, along the N. Bdy. of Tp., between secs. 5 and 32. Descending over mountainous land. |
| 29.00 | Head of gulch, course SE. |
| 40.00 | Set a granite stone, 20 X 12 X 10 ins., 15 ins. in the ground, for $\frac{1}{2}$ sec. cor., marked $\frac{1}{2}$ on N. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable. |
| | A cedar, 6 ins. diam., brs. N. $13^{\circ} E.$, 174 lks. dist., marked $\frac{1}{2}$ S 32 B T. |
| | No other tree available. |
| 42.00 | Gulch, 1.00 ch. wide, course SE. |
| 50.00 | Gulch, 1.00 ch. wide, course SE. |
| 61.50 | Oak Creek, 1.00 ch. wide, course S. Abrupt ascent. |
| 80.00 | Point for cor. of secs. 4, 5, 32 and 33 falls on W. slope of ridge, where I set a granite stone, 40 X 30 X 10 ins., 30 ins. in the ground, marked with 2 notches on the W. and 4 notches on the E. edge, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable. |
| | Land, mountainous. Soil, sandy and stony; 3rd and 4th rate. Timber, scattering cedar; undergrowth, oak, manzanita. Mountainous land, covered with dense undergrowth, exceptionally difficult to survey, 80.00 chs. November 12, At noon, I set off $17^{\circ} 32' S$ on the decl. arc and observe the sun on the meridian; the resulting lat. is $33^{\circ} 54' N$. |
| | ----- |

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Survey of a Portion of North Bdy. of Tp. 6 N., R. 12 East.

chains

East, bet. secs. 4 and 33 on the N. Bdy. of Tp.
 Ascending abruptly over mountainous land, covered with
 dense undergrowth.
 7.00 Top of ridge of low divide, extends N. and S.
 20.00 Begin abrupt descent.
 40.00 Set a quartzite stone, 20 X 10 X 8 ins., 15 ins. in
 the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face, and
 raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N.
 of cor. Pits impracticable.
 Descend gradually.
 60.00 Enter dense tesota.
 70.00 Canyon, 50 lks. wide, course SSW.
 80.00 Point for cor. of secs. 3, 4, 33 and 34, falls on
 granite boulder in place, 24 X 15 X 6 ins., above
 ground, which I mark with a cross for exact sec. cor.
 point, with 3 grooves on the E. and W. faces; and
 raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W.
 of cor. Pits impracticable.
 An oak, 6 ins. diam., hrs. N. 46° W., 40 lks. dist.,
 marked T 7 N R 12 E S 33 B T.
 An oak, 6 ins. diam., hrs. N. 11° E., 57 lks. dist.,
 marked T 7 N R 12 E S 34 B T.
 No other trees available.
 Land, mountainous.
 Soil, sandy and stony; 3rd and 4th rate.
 Timber, cedar and oak; undergrowth, scrub oak and
 tesota.
 Mountainous land, covered with dense undergrowth, ex-
 ceptionally difficult to survey, 80.00 chs.
 Because of the mountainous and rough character of the
 land, it is impossible to continue line east by the
 ordinary methods of surveying.
 November 12, 1907.

General Description.

The north and south boundary of this township
 lies in very rough and mountainous land, and it is
 impossible to complete surveys of same. The land
 is not available for agricultural purposes, or for
 grazing.

Latitudes, departures and closing errors.

| Line des-ignated | True Bearing | Distance | Latitude | | Departure | |
|--------------------|---------------------|----------|----------|--------|---------------|--------|
| | | | N. | S. | E. | W. |
| W. Bdy. | North | 480.00 | 480.00 | | | |
| N. Bdy. | East | 239.00 | | | 239.00 | |
| Subdivi- | South | 80.00 | | 80.00 | | |
| | S. $0^{\circ} 2'$ E | 240.00 | | 240.00 | .15 | |
| | West | 80.00 | | | | 80.00 |
| S. Bdy. | S. $0^{\circ} 2'$ E | 160.00 | | 160.00 | .10 | |
| | West | 159.51 | | | | 159.51 |
| <u>Convergency</u> | | | | | .16 | |
| | | | 480.00 | 480.00 | 239.41 | 239.51 |
| | | | | | | 239.41 |
| | | | | | Error in dep. | .10 |

Jesse B. Wright
 U. S. Deputy Surveyor.

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

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LIST OF NAMES.

BOOK 2093

A list of the names of the individuals employed by Jesse 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 boundaries of T. 13 S. R. 12 E.

T. 18 S. R. 11 E. T. 15 S. R. 22 E. T. 14 & 15 S. R. 27 E. and T. 6 N. R. 11 T. 12 E. G T S R. B T M

showing the respective capacities in which they acted:

Leon G. Moore, Chairman.

Raymond A. Newton, Chairman.

Walter J. Percival, ~~Chairman~~ Moundman.

Robert H. Rogers, ~~Chairman~~ Moundman.

William H. Harrison, ~~Moundman~~ Assman.

Benjamin H. Kerrick, Assman.

Clifton W. Elliott, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Jesse B. Wright

a, United States Deputy Surveyor, in surveying all

those parts or portions of boundaries of T. 13 S. R. 12 E. T. 18 S. R. 11 E. T. 15 S. R. 22 E.

T. 14 T. 15 S. R. 27 E. T. 6 N. R. 11 T. 12 E.

of the G T S R.

Bdsc 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

Leon G. Moore, Chairman.

Raymond A. Newton, Chairman.

Walter J. Percival, Moundman.

Robert H. Rogers, ~~Chairman~~ Moundman.

Benjamin H. Kerrick, Assman.

William H. Harrison, ~~Moundman~~ Assman.

Clifton W. Elliott, Flagman.

Subscribed and sworn to before me this 20th

day of December, 1907



My commission expires Jan 16, 1911

M. Maudie Harrison

Notary Public

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

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BOOK 2098

I, Jesse B Wright, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from Frank S. Ingalls United States Surveyor General for Arizona, bearing date of the 15th day of April, 1907, 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 T. 15 S R 12 E, T 18 S R 11 E, T. 15 S R 22 E T. 14 S 15 S R 27 E T. 6 N R. 11 T 12 E.

of the Gila T Salt River 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.

Jesse B Wright
United States Deputy Surveyor.

Subscribed by said Jesse B Wright, and sworn to before me }
this 20th day of December, 1907

W. H. ...



U. S. Commissioner, First Judicial District,
Territory of Arizona, residing at Tucson.

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Phoenix, Ariz. April 6, 1907

The foregoing field notes of the survey of the four North and South Boundaries of Tp. 6 N. R. 12 E

executed by Jesse B Wright U.S. Deputy Surveyor under his contract No. 145, dated April 15, 1907, 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.