

FIELD NOTES

2335

Accepted G. L. O. letter "E" dated Dec. 17, 1912.

OF THE SURVEY OF THE

Sectional South Boundary of T 19 S R 24 E

Of the T & R Meridian,

In the State of Arizona

EXECUTED BY

Alfred N. Oliver

In the capacity of U. S. ^{Assistant} Surveyor, under instructions dated July 28, 1911, issued by the United States Surveyor General to govern surveys included in Group No. 5, which were approved by the Commissioner of the General Land Office, August 5, 1911, pursuant to authority contained in the Act of Congress dated March 4, 1911.

Survey commenced October 2, 1911

Survey completed October 3, 1911

INDEX DIAGRAM.

Township -----, *Range* -----

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

BOOK 2335

INDEX DIAGRAM.

Township 19 South, _____, Range 24 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
					1

Meanders Page _____

99 1A
BOOK 2335

PRELIMINARY OATHS OF ASSISTANTS.

WE, A. R. Harvey and R. L. Bates
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 the S. ldy. of P 195 R 24 E.

A. R. Harvey, Chainman.
R. L. Bates, Chainman.

Subscribed and sworn to before me this 2nd
day of October, 1911



John P. Hesse
U. S. Transitman

WE, J. J. Gardner 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 the S. ldy. of P 195 R. 24 E.

J. J. Gardner, Moundman.
J. J. Gardner, Moundman.

Subscribed and sworn to before me this 2nd
day of October, 1911



John P. Hesse
U. S. Transitman

WE, J. E. Barnes 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 the S. ldy. of P 195 R. 24 E.

J. E. Barnes, Axman.
J. E. Barnes, Axman.

Subscribed and sworn to before me this 2nd
day of October, 1911



John P. Hesse
U. S. Transitman

I, A. W. Hendrix, 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 S. ldy. of P 195 R. 24 E.

A. W. Hendrix, Flagman.

Subscribed and sworn to before me this 2nd
day of October, 1911



John P. Hesse
U. S. Transitman

95

Survey commenced October 2, 1911, and executed with a W. and L. E. Gurley solar compass, not numbered, the horizontal limb is provided with two double verniers placed opposite to each other and reading to single minutes of the arc, which is also the least count of the verniers of the latitude and declination arcs.

The instrument was examined and approved by the Supervising Surveyor.

I examine the adjustments of the compass and find them correct; 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 by observations on polaris, I proceed as follows:

At camp near the 1/4 sec. cor. on the S. boundary of sec. 36, T. 19 S., R. 24 E., latitude 31° 44' N., longitude 109° 52' W., I set off 31° 44' N., on the lat. arc; 3° 24' S., on the decl. arc, and at 5 h. 00 M., 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 chs. N. of my station.

At 6 h. 50 m. p.m., by my watch, which has correct l.m.t., I observe Polaris at eastern 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 chs. N. of my station.

October 2, 1911.

October 3:

At 6 h. 30 m., a.m., l.m.t., I lay off the azimuth of Polaris 1° 22' to the west and mark the meridian thus determined by cutting a small groove in the stone set October 2 on which the meridian coincides with the mark determined by the solar.

At 7 h. 00 m., a.m., l.m.t., I set off 31° 44' N., on the lat. arc; 3° 37 1/2' 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 chs. N. of my station; this mark coincides with the meridian determined by the Polaris observation.

The solar apparatus by p.m. and a.m. observations defines positions for meridians, respectively, which coincide with the meridian established by the Polaris observations therefore, I conclude that the adjustments of the instrument are satisfactory.

The magnetic bearing of the true meridian at 7 h. 15 m., a.m., l.m.t., is N. 13° 15' W., the angle thus determined gives the mag. decl. 13° 15' E.

I commence at the cor. of T. 19 S., Rs. 24 and 25 E.,

Thence I run West on the S. Bdy. of Sec. 36, T. 19 S., R. 24 E. Over rolling land.

- 31. 35 Ross, Griffith's house bears N. 45° 30' W.
- James McKinney's house bears S. 25° E.
- 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground for 1/4 sec. cor., of Sec. 36, marked on brass cap. 1/4 S 36 in North half, dig pits 18 X 18 X 12 ins., E. and W. of cor. 3 ft. dist., and raise a mound of earth, 3 1/2 ft. base, 1 1/2 ft. high, N. of cor.
- 80.00 Set an iron post, 3 ft. long, 3 ins. in diam., 24 ins. in the ground for the cor. of secs. 35 and 36, marked on brass cap
T 19 S R 24 E in North half,
S 35 in NW, and
S 36 in NE quadrants; raise a mound of stone 2 ft. base, 1 1/2 ft. high, W. of cor. Pits impracticable.

962

Chains

Land, rolling.
Soil, rocky and worthless, 4th rate.
No timber.

October 3, 1911.

BOOK 2335

GENERAL DESCRIPTION.

This township is rolling and mountainous. There is no timber or water in the township.

Alfred N. Bliss

U. S. Transitman

FINAL OATHS OF ~~DEPUTY~~ SURVEYOR AND HIS ASSISTANTS.

3
97

BOOK 2335

LIST OF NAMES.

A list of the names of the individuals employed by John P. Hesse

Transitman, 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 S. bdy. of P195 R. 24 E.

showing the respective capacities in which they acted:

- N. R. Harvey, Chainman.
- R. L. Bates, Chainman.
- J. L. Gardner, Moundman.
- _____, Moundman.
- E. Barnes, Axman.
- _____, Axman.
- A. W. Hendrix, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Alfred N. Oliver

_____, United States ~~Deputy Surveyor~~, in surveying all those parts or portions of the S. bdy. of P195 R. 24 E.

_____ of the S. bdy. and Salt River meridian, Territory 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

- H. R. Harvey, Chainman.
- R. L. Bates, Chainman.
- J. L. Gardner, Moundman.
- _____, Moundman.
- E. Barnes, Axman.
- _____, Axman.
- A. W. Hendrix, Flagman.

Subscribed and sworn to before me this 3rd day of October, 1911

John P. Hesse
U. S. Transitman



BOOK 2335 4

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Alfred N. Oliver, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from Frank J. Ingalls, United States Surveyor General for Arizona, bearing date of the 28th day of July, 1911, 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 S. ldy. of P195 R 24 E.

of the Gila and Salt River 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.

Alfred N. Oliver, United States Deputy Surveyor.

Subscribed by said Alfred N. Oliver, and sworn to before me this 2nd day of August, 1912

Frank J. Ingalls, SURVEYOR-GENERAL OF ARIZONA



APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Phoenix, Ariz. Aug 3, 1912

The foregoing field notes of the survey of the frac. South Boundary of S190 R24 E

executed by Alfred N. Oliver under his contract No. 1, dated Aug 25, 1910, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Frank J. 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.