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1904-1905
June 14/04

1887

Book "J"

BOOK 1887

FIELD NOTES

OF THE SURVEY OF THE

Subdivision lines of Township 4 North
Range 31 East

1887

1887

Subdivision lines

Subdivision lines

Of the Gila and Salt River Meridian,

Territory of Arizona

AS SURVEYED BY

John P. Hesse, United States Deputy Surveyor,

Under his Contract No. 121, dated June 17th, 1904

Survey commenced Oct. 5, 1904

Survey completed Oct. 5, 1904



NAMES AND DUTIES OF ASSISTANTS.

George W. Cassidy

Chairman

A. A. Snyder

Chairman

W. W. Oliver

Assman

G. E. Wiswell

Assman

W. H. Fort

Flagman

100 1B

BOOK 1887

INDEX DIAGRAM.

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PRELIMINARY OATHS OF ASSISTANTS.

BOOK 1887

WE, George W. Cassidy and A. A. Snyder
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 subdivision lines of Pp. 4 2. Pg. 31 E.

George W. Cassidy, Chainman.
A. A. Snyder, Chainman.

Subscribed and sworn to before me this 1st
day of August, 1904



John F. Hesse
U.S. Rep. 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, W. W. Oliver and G. E. Wiswell
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 subdivision lines of Pp. 4 2. Pg. 31 E.

W. W. Oliver, Axman.
G. E. Wiswell, Axman.

Subscribed and sworn to before me this 1st
day of August, 1904



John F. Hesse
U.S. Rep. Surveyor

I, W. H. Fort, 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 subdivision lines of Pp. 4 2. Pg. 31 E.

W. H. Fort, Flagman.

Subscribed and sworn to before me this 1st
day of August, 1904



John F. Hesse
U.S. Rep. Surveyor

No notary available

1. Subdivisional lines in Tp. 4 N., R. 31 E.

Chs.	The evening of Oct. 4th, being cloudy, no observation on Polaris was possible.
	Oct. 5th, 1904. I examine the adjustments of my solar compass and find them satisfactory.
	At a point .13 chs. N. of the true cor. point, for the cor. of secs. 1, 2, 35 and 36 on the S. bdy. of Tp. 4 N., R. 31 E., I set off 33° 38 1/2' N., on the lat. arc, and 4° 42' 30'' S., on the decl. arc and determine a meridian with the Solar at 8 hours, 5 mins. a. m., 1. m. t. Thence I run, N. 0° 01' W., on a true line, bet. secs. 35 and 36, from true cor. pt. in wash. Ascend over mts. land thro. heavy timber.
.13	Set a limestone, 18 x 8 x 8 ins., 12 ins., in the ground for witness cor. to the cor. of secs. 1, 2, 35 and 36, marked with 1 groove on the E. and 5 grooves on the W. edges and W. C. on the E., whence,
	An oak, 4 ins., in diam. brs. N. 80° E., 67 lks. dist. mkd. W. C. T. 4 N., R. 31 E., S. 36 B.T.
	An oak, 7 ins., in diam. brs. S. 35° E., 44 lks. dist. mkd. W. C. T. 3 N., R. 31 E., S. 1 B.T.
	An oak, 4 ins., in diam. brs. brs. S. 37 1/2° W., 69 lks. dist. mkd. T. 3 N., R. 31 E., S. 2 B.T. W.C.
	A juniper, 10 ins., in diam. brs. N. 27 3/4° W., 75 lks. dist. mkd. T. 4 N., R. 31 E., S. 35 B.T.W.C.
31.80	Cross wash, 10 lks. wide, course E. 12
40.	Set a limestone, 16 x 14 x 3 ins., 10 ins., in the ground for 1/4 sec. cor. mkd. 1/4 on the W. face, whence,
	A pinon, 8 ins., in diam. brs. N. 77 1/2° E., 10 lks. dist. mkd. 1/4 S. 36 B.T.
	A pinon, 6 ins., in diam. brs. S. 86 1/4° W., 47 lks. dist. mkd. 1/4 S. 35 B.T.
54.50	Cross wash, 10 lks. wide, course N. E. 15
80.	Set a malpais stone, 20 x 10 x 8 ins., 14 ins., in the ground for the cor. of secs. 25, 26, 35 and 36, marked with 1 groove on the S. and E. edges, whence,
	A pine, 8 ins., in diam. brs. N. 77 1/2° E., 10 lks. dist. mkd. T. 4 N., R. 31 E., S. 25 B.T.
	A pine, 14 ins., in diam. brs. S. 21° E., 43 lks. dist. mkd. T. 4 N., R. 31 E., S. 36 B.T.
	A juniper, 12 ins., in diam. brs. S. 35 3/4° W., 104 lks. dist. mkd. T. 4 N., R. 31 E., S. 35 B.T.
	A juniper, 12 ins., in diam. brs. N. 26 3/4° W., 65 lks. dist. mkd. T. 4 N., R. 31 E., S. 26 B.T.
	At this cor. at 12 o'clock noon, I set off 4° 47 1/2' S., on the decl. arc and observe the Sun on the meridian, the resulting latitude is 33° 40' N.
	Land rough mts. and covered with, dense pine, pinon and juniper timber. 80.00 chs.
	Soil, rocky and 4th rate.
	----- N. 89° 56' E., on a random line, bet. secs. 25 and 36.
40.	Set temp. 1/4 sec. cor.
79.80	Intersect the cor. of secs. 25, 30, 31 and 36 at 20 lks. N. of the cor. Thence I run, N. 89° 55' W., on a true line, bet. secs. 25 and 36.
	Over rolling mts. thro. dense pine and juniper timber.
28.70	Top of spur and descend.
39.90	Set a malpais stone, 30 x 8 x 6 ins., 23 1/2 ins., in the ground for 1/4 sec. cor. marked 1/4 on the N. face, whence,
	A pine, 16 ins., in diam. brs. S. 7° W., 88 lks. dist. mkd. 1/4 S. 36 B.T.
	A pine, 6 ins., in diam. brs. N. 69° W., 120 lks. dist. mkd. 1/4 S. 25 B.T.
42.40	Cross Blue River, 20 lks. wide, running water, course S.E. and enter dense cottonwood, ash, sycamore and walnut timber some heavy brush of oak.

TRANSCRIBED COPY OF
ORIGINAL FIELD NOTES

BOOK 1887

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1. Subdivisional lines in Tp. 4 N., R. 31 E.

Chs.	The evening of Oct. 4th, being cloudy, no observation on Polaris was possible.
	Oct. 5th, 1904. I examine the adjustments of my solar compass and find them satisfactory.
	At a point .13 chs. N. of the true cor. point, for the cor. of secs. 1, 2, 35 and 36 on the S. bdy. of Tp. 4 N., R. 31 E., I set off $33^{\circ} 38\frac{1}{2}'$ N., on the lat. arc, and $4^{\circ} 42' 30''$ S., on the decl. arc and determine a meridian with the Solar at 8 hours, 5 mins. a. m., l. m. t. Thence I run, N. $0^{\circ} 01' W.$, on a true line, bet. secs. 35 and 36, from true cor. pt. in wash. Ascend. over mts. land thro. heavy timber.
.13	Set a limestone, 18 x 8 x 8 ins., 12 ins., in the ground for witness cor. to the cor. of secs. 1, 2, 35 and 36, marked with 1 groove on the E. and 5 grooves on the W. edges and W. C. on the E., whence,
	An oak, 4 ins., in diam. brs. N. $80^{\circ} E.$, 67 lks. dist. mkd. W. C. T. 4 N., R. 31 E., S. 36 B.T.
	An oak, 7 ins., in diam. brs. S. $35^{\circ} E.$, 44 lks. dist. mkd. W. C. T. 3 N., R. 31 E., S. 1 B.T.
	An oak, 4 ins., in diam. brs. S. $37\frac{1}{2}^{\circ} W.$, 69 lks. dist. mkd. T. 3 N., R. 31 E., S. 2 B.T. W.C.
	A juniper, 10 ins., in diam. brs. N. $27\frac{3}{4}^{\circ} W.$, 75 lks. dist. mkd. T. 4 N., R. 31 E., S. 35 B.T.W.C.
31.80 40.	Cross wash, 10 lks. wide, course E. ¹² Set a limestone, 16 x 14 x 3 ins., 10 ins., in the ground for 1/4 sec. cor. mkd. 1/4 on the W. face, whence,
	A pinon, 8 ins., in diam. brs. N. $77\frac{1}{2}^{\circ} E.$, 10 lks. dist. mkd. 1/4 S. 36 B.T.
	A pinon, 6 ins., in diam. brs. S. $86\frac{1}{4}^{\circ} W.$, 47 lks. dist. mkd. 1/4 S. 35 B.T.
54.50 80.	Cross wash, 10 lks. wide, course N. E. ¹⁵ Set a malpais stone, 20 x 10 x 8 ins., 14 ins., in the ground for the cor. of secs. 25, 26, 35 and 36, marked with 1 groove on the S. and E. edges, whence,
	A pine, 8 ins., in diam. brs. N. $77\frac{1}{2}^{\circ} E.$, 10 lks. dist. mkd. T. 4 N., R. 31 E., S. 25 B.T.
	A pine, 14 ins., in diam. brs. S. $21^{\circ} E.$, 43 lks. dist. mkd. T. 4 N., R. 31 E., S. 36 B.T.
	A juniper, 12 ins., in diam. brs. S. $35\frac{3}{4}^{\circ} W.$, 104 lks. dist. mkd. T. 4 N., R. 31 E., S. 35 B.T.
	A juniper, 12 ins., in diam. brs. N. $26\frac{3}{4}^{\circ} W.$, 65 lks. dist. mkd. T. 4 N., R. 31 E., S. 26 B.T.
	At this cor. at 12 o'clock noon, I set off $4^{\circ} 47\frac{1}{2}'$ S., on the decl. arc and observe the Sun on the meridian, the resulting latitude is $33^{\circ} 40' N.$ Land rough mts. and covered with, dense pine, pinon and juniper timber. 80.00 chs. Soil, rocky and 4th rate.
	----- N. $89^{\circ} 56' E.$, on a random line, bet. secs. 25 and 36.
40. 79.80	Set temp. 1/4 sec. cor. ⁷ Intersect the cor. of secs. 25, 30, 31 and 36 at 20 lks. N. of the cor. Thence I run, N. $89^{\circ} 55' W.$, on a true line, bet. secs. 25 and 36.
	Over rolling mts. thro. dense pine and juniper timber. Top of spur and descend.
28.70 39.90	Set a malpais stone, 30 x 8 x 6 ins., 23 1/2 ins., in the ground for 1/4 sec. cor. marked 1/4 on the N. face, whence,
	A pine, 16 ins., in diam. brs. S. $7^{\circ} W.$, 88 lks. dist. mkd. 1/4 S. 36 B.T.
	A pine, 6 ins., in diam. brs. N. $69^{\circ} W.$, 120 lks. dist. mkd. 1/4 S. 25 B.T.
42.40	Cross Blue River, 20 lks. wide, running water, course S.E. and enter dense cottonwood, ash, sycamore and walnut timber some heavy brush of oak.

2.

Subdivisional lines in T. 4 N., R. 31 E., Concluded.

Chs.	
43.80	Road bears N. and S. Luna Valley to Clifton. enter. den brush.
45.00	Rail fence bears N. W. and S. E.
48.90	Rail fence bears N. and S.
49.86	A pt. on line, whence stone chimney, on W. side of cabin bears S. 50 lks. dist.
53.10	Rail fence bears N. and S. and leave bottom land and river timber and dense brush
79.80	The cor. of secs. 25, 26, 35 and 36. Land rough mts. or covered with dense timber or river brush. 79.80 chs. Timber; cottonwood, hackberry and walnut with some sycamore in Blue River Canon Bottom; pine, juniper, pinon and oak on mts. slope. Soil 1st to 4th rate.

Oct. 5th, 1904.

No other subdivisional lines were executed in this township, as they were not necessary to properly include any agricultural or grazing lands lying along or within the Canon of the Blue River, or more particularly the settlement of any settler.

The township is very rough mts. cut by precipitous canons, and ravines.

In many places it is too rough for grazing purposes, the mts. slopes, being very steep.

The township is covered with a dense growth of pine, pinon, juniper, oak and cedar timber of commercial value.

The township is watered by ravines tributary to the Blue River.

The soil is worthless except in the Canon Bottom, being very rough and rocky.

There is one settler in sec. 36.-

John F. Hesse
U. S. Deputy Surveyor.

Oct. 5th, 1904.

LIST OF NAMES.

A list of the names of the individuals employed by John D. Nessel
 _____, 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
subdivision lines of Pp. 4 N. Rg. 31 E.
 showing the respective capacities in which they acted:

George W. Cassidy, Chainman.

A. A. Snyder, Chainman.

_____, Moundman.

_____, Moundman.

W. W. Oliver, Arman.

G. E. Wiswell, Arman.

W. H. Fort, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted John D. Nessel
 _____, United States Deputy Surveyor, in surveying all
 those parts or portions of the the subdivision lines of Pp.
4 N. Rg. 31 E.

_____ of the Gila
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

George W. Cassidy, Chainman.

A. A. Snyder, Chainman.

_____, Moundman.

_____, Moundman.

W. W. Oliver, Arman.

G. E. Wiswell, Arman.

W. H. Fort, Flagman.

Subscribed and sworn to before me this 5th
 day of October, 1904



John D. Nessel
 U. S. Dep. Surveyor

No notary available

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FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, John F. Hesse 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 17 day of June, 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 subdivision lines of Pp. 4 & 11. Rg. 31 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 _____ and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

John F. Hesse
United States Deputy Surveyor.

Subscribed by said John F. Hesse, and sworn to before me }
this 17th day of June, 1904.

Frank S. Ingalls
U.S. Surveyor Gen'l



APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Phoenix, Arizona, April 21st 1905, 190
The foregoing field notes of the survey of the subdivisional lines of P. 4 & R. 31 E. of the Gila and Salt River Base and Meridian, in the Territory of Arizona

executed by John F. Hesse U.S. deputy Surveyor under his contract No. 121, dated June 17, 1904, 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.~~