

Accepted May 31 1912

FIELD NOTES

BOOK 2272

OF THE SURVEY OF THE

Tract and North and South Boundaries
T 16 N R 13 W.

2272

2272

Of the 6th 2d R Meridian,

In the ^{Terr.} State of Arizona

EXECUTED BY

John D. Hres and Alfred H. Oliver

In the capacity of U. S. ^{Transient En} Surveyor, under instructions dated August 25, 1910,
issued by the United States Surveyor General to govern surveys included in
Group No. 7, which were approved by the Commissioner of the General Land
Office, September 9, 1910, pursuant to authority contained in the Act of
Congress dated June 25, 1910 ^{and March 4, 1911}

Survey commenced April 28, 1911

Survey completed May 5, 1911

2272

BOOK 2272

INDEX DIAGRAM.

Township 16 N. ₄, Range 13 W. _{2 2 2}

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INDEX DIAGRAM.

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PRELIMINARY OATHS OF ASSISTANTS.

WE, A. E. Lyon and J. H. 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 north boundary of Tp. 16 N. Rg. 13 W.

A. E. Lyon, Chainman.
J. H. Bates, Chainman.

Subscribed and sworn to before me this 4th
day of May, 1911



John P. Hesse
U. S. Transitman

WE, J. R. L. Bates 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 north boundary of Tp. 16 N. Rg. 13 W.

J. R. L. Bates, Moundman.
_____, Moundman.

Subscribed and sworn to before me this 4th
day of May, 1911



John P. Hesse
U. S. Transitman

WE, Ed. Brockway and J. P. Ellis
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 north boundary of Tp. 16 N. Rg. 13 W.

Ed. Brockway, Axman.
J. P. Ellis, Axman.

Subscribed and sworn to before me this 4th
day of May, 1911



John P. Hesse
U. S. Transitman

I, L. C. Planagan, 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 north boundary of Tp. 16 N. Rg. 13 W.

L. C. Planagan, Flagman.

Subscribed and sworn to before me this 4th
day of May, 1911



John P. Hesse
U. S. Transitman

BOOK 2272

INDEX DIAGRAM.

Township _____, Range _____

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Meanders Page _____

PRELIMINARY OATHS OF ASSISTANTS.

WE, R. A. Coombs and W. D. Tanner

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 north and south boundaries of P. 16 N. R. 13 W.

R. A. Coombs, Chainman.
W. D. Tanner, Chainman.

Subscribed and sworn to before me this 28th
day of April, 19 11



Alfred N. Bliss
U. S. Transitman

WE, J. Clay Dodson 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 north and south boundaries of P. 16 N. R. 13 W.

J. Clay Dodson, Moundman.
J. Clay Dodson, Moundman.

Subscribed and sworn to before me this 28th
day of April, 19 11



Alfred N. Bliss
U. S. Transitman

WE, C. S. Crowen 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 north and south boundaries of P. 16 N. R. 13 W.

C. S. Crowen, Axman.
C. S. Crowen, Axman.

Subscribed and sworn to before me this 28th
day of April, 19 11



Alfred N. Bliss
U. S. Transitman

I, P. Shimpfessel, 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 north and south boundaries of P. 16 N. R. 13 W.

P. Shimpfessel, Flagman.

Subscribed and sworn to before me this 28th
day of April, 19 11



Alfred N. Bliss
U. S. Transitman

South Boundary of Township 16 North, Range 13 West.

1.

Chains.

- April 28:
From the corner of Tps, 15 and 16 N., Rs. 12 and 13 W., heretofore described in Book "N." I run,
West, bet. secs. 1 and 36.
Over rolling land, through dense brush.
- 13.05 Over level land.
27.35 Cross wash, 15 lks. wide, course S.
39.40 Cross wash, 15 lks. wide, course SW.
40.00 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap $\frac{1}{4}$ S 36 in N., and S 1 in S. half; and raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.
- 55.24 Road, bears NW. and SE.
56.05 Cross fence nears NW. and SE.
59.60 Fence bears N. and S.
59.80 Irrigating ditch course SE., and over cultivated land.
61.60 Fence bears NE. and SW., and through dense brush.
62.05 Road bears NE. and SW.
62.60 Irrigating ditch, course NE.
66.75 Irrigating ditch, course NW.
67.90 Road, bears NW. and SE.
68.00 Fence bears NW. and SE.
69.70 Fence bears NE. and SW.
80.00 Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for cor. of secs. 1, 2, 35 and 36, marked on brass cap,
T 16 N in N.,
T 15 N in S., and
R 13 W in W. half;
S 35 in NW.,
S 36 in NE.,
S 1 in SE., and
S 2 in SW. quadrant; from which
A willow 12 ins. diam., bears N. $78\frac{1}{2}^{\circ}$ E., 75 lks. dist., marked T 16 N R 13 W S 36 B T.
A mesquite, 4 ins. diam., bears S. $43\frac{1}{4}^{\circ}$ W., 14 lks. dist., marked T 15 N R 13 W S 2 B T.
No other tree available. Dig pits 18x18x12 ins. in each sec. $5\frac{1}{2}$ ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high, W. of cor.
Land, rolling and level.
Soil, sandy loam, dry, medium texture; 1st rate.
Timber, scattering cottonwoods.
Undergrowth, greasewood, mesquite, palo verde and arrowweed.
-
- West, bet. secs. 2 and 35.
Over level land, through dense brush.
- 6.40 Left bank of Big Sandy River, and over dry bed of river.
15.91 Road bears NE. and SW.
26.10 Cross running water in river bed, 200 lks. wide, 8 ins. deep, course SE.
27.85 Irrigating ditch, 5 lks. wide, course S.
28.50 Right bank of Big Sandy River, and ascend E. slope of hills, through dense brush.
37.00 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for witness $\frac{1}{4}$ sec. cor., marked on brass cap, W C $\frac{1}{4}$ in E. half, S 35 in NW., and S 2 in SW. quadrant; dig pits 18x18x12 ins., E. and W. of post 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
37.46 Enter wash, 200 lks. wide, course NE., and thence along in wash.
40.00 Point for $\frac{1}{4}$ sec. cor. falls in wash.
80.00 Point for cor. of secs. 2, 3, 34 and 35 falls in wash, and as a witness cor. cannot be set on line within 20 chs. of its true point; therefore, I run S. $0^{\circ}12'E.$,

2. South boundary of Township 16 North, Range 13 West.

Chains.

2.00 chs., and set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for witness cor. to cor. of secs. 2, 3, 34 and 35, marked on brass cap,
 W C N. of center,
 T 16 N in N.,
 T 15 N in S., and R 13 W in W. half;
 S 34 in NW.,
 S 35 in NE.,
 S 2 in SE., and
 S 3 in SW. quadrant; and raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
 Land, level and rolling hills.
 Soil, loose sand; 4th rate.
 No timber.
 Undergrowth, greasewood, mesquite, palo verde, arrowweed and cactus.

April 28, 1911.

Note: For astronomical observations on this date, see Book N.

North Boundary of Township 16 North, Range 13 West.

May 2: At 7h.00m. a.m., l.m.t., I set off $34^{\circ}46'N$. on the lat. arc; $15^{\circ}10\frac{1}{2}'S$. on the decl. arc; and determine a meridian with the solar at the cor. of Tps. 16 and $16\frac{1}{2}$ N., Rgs. 12 and 13 W.

Thence I run,

West, bet secs. 1 and 36.

Descending rolling W. slope of hills, through dense brush.

24.90 Cross wash, 10 lks. wide, course NW.

28.10 Cross same wash, course SW.

31.25 Cross wash, 15 lks. wide, course S.

39.75 Cross wash, 10 lks. wide, course SW.

40.00 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap $\frac{1}{4}$ S 36 in N. and S 1 in S. half; and raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.

50.75 Cross wash, 70 lks. wide, course SW.

62.70 Cross wash, 75 lks. wide, course SW.

80.00 Set an iron post 3 ft. long, 23 ins. diam., 24 ins. in the ground for cor. of secs. 35, 36, 1 and 2, marked on brass cap,

T $16\frac{1}{2}$ N in N.,

T 16 N in S., and

R 13 W in W. half;

S 35 in NW.,

S 36 in NE.,

S 1 in SE., and

S 2 in SW. quadrant; and raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.

Land, rough, rolling hills.

Soil, gravelly and rocky; 4th rate.

No timber.

Undergrowth, greasewood, palo verde, mesquite and catclaw.

West, bet. secs. 2 and 35.

Descending rolling W. slope of hills, through dense brush.

40.00 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 35 in N. and S 2 in S. half; from which,A palo verde 4 ins. diam., brs. N. $51\frac{1}{2}^{\circ}W$., 76 lks. dist., marked $\frac{1}{4}$ S 35 B T.

North boundary of Township 16 North, Range 13 West. 3.

Chains.

No other trees available. Raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.
 64.00 Cross drain 7 lks. wide, course SW.
 80.00 Set an iron post 3 ft. long, 2 ins. diam., 24 ins. in the ground for cor. of secs. 2, 3, 34 and 35, marked on brass cap,
 T $16\frac{1}{2}$ N in N.,
 T 16 N in S., and
 R 13 W in W. half;
 S 34 in NW.,
 S 35 in NE.,
 S 2 in SE., and
 S 3 in SW. quadrant; and raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
 Land, rolling hills.
 Soil, gravelly and rocky, 4th rate.
 No timber.
 Undergrowth, palo verde, greasewood and mesquite.
 May 2: At this cor. I set off $15^{\circ} 13\frac{1}{2}'$ N. on the decl. arc; and observe the sun on the meridian at noon; the resulting lat. is $34^{\circ} 46'$ N.

 West, bet. secs. 3 and 34.
 Over rolling land, through dense brush.
 35.76 Cross fence bears N. and S.
 40.00 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap $\frac{1}{4}$ S 34 in N., and S 3 in S. half; from which,
 A mesquite, 6 ins. diam., bears $N. 49\frac{1}{2}^{\circ} E.$, 23 lks. dist., marked $\frac{1}{4}$ S 34 B T.
 A mesquite, 7 ins. diam., bears $S. 66\frac{1}{2}^{\circ} E.$, 44 lks. dist., marked $\frac{1}{4}$ S 3 B T.
 Land, rolling.
 Soil, very sandy; 3rd rate.
 No timber.
 Undergrowth, greasewood, mesquite and catclaw.
 May 2, 1911.

Alfred N. Oliver
 U. S. Transitman.

 May 5:
 At 7h.00m. a.m., 1.m.t., I set off $34^{\circ} 46'$ N. on the lat. arc; $16^{\circ} 03\frac{1}{2}'$ N. on the decl. arc, and determine a meridian with the solar at the $\frac{1}{4}$ sec. cor., bet. secs. 3 and 34 on the S. bdy. of the Tp.
 Thence I run,
 West, bet. secs. 3 and 34.
 Over bottom land, through dense brush.
 3.37 Fence bears NW. and SE.
 8.00 Left bank of Big Sandy River, dry.
 26.00 Right bank of Big Sandy River, course S.
 40.00 Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for cor. of secs. 3, 4, 33 and 34, marked on brass cap,
 T $16\frac{1}{2}$ N in N.,
 T 16 N in S., and
 R 13 W in W. half,
 S 33 in NW.,
 S 34 in NE.,
 S 3 in SE., and
 S 4 in SW. quadrants; from which,
 A catclaw 8 ins. diam., bears $N. 31^{\circ} 45' W.$, 59 lks. dist., marked T $16\frac{1}{2}$ N R 13 W S 33 B T.
 A mesquite, 12 ins. diam., bears $N. 23\frac{1}{4}^{\circ} E.$, 131 lks. dist., marked T $16\frac{1}{2}$ N R 13 W S 34 B T.

4. North Boundary of Township 16 North, Range 13 West.

Chains.

A mesquite 7 ins.diam., bears S.45 $\frac{1}{2}$ °E., 34 lks.dist.,
marked T 16 N R 13 W S 3 B T.

A catclaw, 6 ins.diam., bears S.40 $\frac{1}{2}$ °W., 11 lks.
dist., marked T 16 N R 13 W S 4 B T.

Land, level.

Soil, very sandy loam, 2nd rate, excepting bed of river,
which is loose sand and worthless.

Timber, a few cottonwoods along river.

Undergrowth, mesquite, catclaw, arrowweed and water mote.
May 5, 1911.

May 7:

At 7h. 00m.a.m., 1.m.t., I set off 34°46'N. on the lat.arc;
16°38'N. on the decl.arc; and determine a meridian
with the solar at the cor.of secs.3,4,33 and 34 on
the S.bdy.of the township.

Thence I run,

West, bet. secs.4 and 33.

Ascending through dense brush.

- 4.48 Cross road, bears N.and S., and over rolling hills.
40.00 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the
ground for $\frac{1}{4}$ sec.cor., marked on brass cap $\frac{1}{4}$ S 33 on
N., and S 4 in S.half; dig pits 18x18x12 ins E.and
W.of cor. 3 ft. dist., and raise a mound of earth 3 $\frac{1}{2}$
ft.base, 1 $\frac{1}{2}$ ft. high, N.of cor.
65.50 Wash, 10 lks.wide, course SE.
80.00 Set an iron post 3 ft. long, 3 ins.diam., 24 ins.in the
ground for cor.of secs.4,5,32 and 33, marked on brass
cap,
T 16 $\frac{1}{2}$ N in N.,
T 16 N in S., and
R 13 W in W.half;
S 32 in NW.,
S 33 in NE.,
S 4 in SE., and
S 5 in SW. quadrant; from which,
A palo verde, 6 ins.diam., bears N.77 $\frac{3}{4}$ °E., 44 lks.dist.,
marked T 16 $\frac{1}{2}$ N R 13 W S 33 B T.
A cedar, 8 ins.diam., bears N,19° W., 52 lks.dist.,
marked T 16 $\frac{1}{2}$ N R 13 W S 32 B T.
A cedar, 6 ins.diam., bears S.50 $\frac{1}{2}$ °E.; 64 lks.dist.,
marked T 16 N R 13 W S 4 B T.
A cedar 7 ins.diam., bears S.50 $\frac{1}{4}$ °W., 28 lks.dist.,
marked T 16 N R 13 W S 5 B T.

Land, rolling hills.

Soil, gravel and sand, 3rd rate.

Timber, a few scrub cedars.

Undergrowth, mesquite, greasewood, catclaw, palo verde and
scrub cedars.

John P. Hesse
U.S. Transitman.

General Description.

This township is mountainous in the eastern part, and
rolling in the west. The Big Sandy River runs through
the township, and the soil along the river is very
fertile. Cottonwoods grow along the river.

LIST OF NAMES.

A list of the names of the individuals employed by Alfred N. Oliver
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
north and south boundaries of T. 16 N. R. 13 W.

showing the respective capacities in which they acted:

- R. A. Coombs Chainman.
- W. W. Panner Chainman.
- Clay Dodson Moundman.
- Moundman.
- C. S. Crowen Axman.
- Axman.
- P. Shimpfessel Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Alfred N. Oliver
Transitman, United States Deputy Surveyor, in surveying all

those parts or portions of the north and south boundaries of T. 16 N.
R. 13 W.

..... 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

- R. A. Coombs Chainman.
- W. W. Panner Chainman.
- Clay Dodson Moundman.
- Moundman.
- C. S. Crowen Axman.
- Axman.
- P. Shimpfessel Flagman.

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



Alfred N. Oliver
U.S. Transitman

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BOOK 2272

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Alfred N. Oliver, United States ^{Transitman} Deputy Surveyor, do solemnly swear that, in pursuance of a ^{instructions} contract received from Frank C. Ingalls United States Surveyor General for Arizona, bearing date of the 25th day of August, 1910, 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 north and south boundaries of Pp. 16 N. Rg. 13 W.

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.
Transitman

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

Frank C. Ingalls
United States Surveyor General



APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

....., 19

The foregoing field notes of the survey of

executed by
under his contract No., dated, 19 .., having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

.....
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.

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 north boundary of Tp 16 N. Rg. 13 W. showing the respective capacities in which they acted:

A. E. Lyon, Chainman.

J. N. Bates, Chainman.

R. L. Bates, Moundman.

Ed. Brockway, Axman.

J. P. Ellis, Axman.

L. E. Flanagan, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted John P. Hesse
Transitman, United States Deputy Surveyor, in surveying all those parts or portions of the north boundary of Tp 16 N. Rg. 13 W.

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

A. E. Lyon, Chainman.

H. K. Kates, Chainman.

R. L. Bates, Moundman.

Ed. Brockway, Moundman.

J. P. Ellis, Axman.

L. E. Flanagan, Flagman.

Subscribed and sworn to before me this 9th day of May, 1911

John P. Hesse
U. S. Transitman



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BOOK 2272

FINAL OATH OF UNITED STATES ~~DEPUTY~~ SURVEYOR.

I, John P. Hesse ^{Transitman} United States ~~Deputy~~ Surveyor, do solemnly swear that, in pursuance of a ~~contract~~ ^{instructions} received from Frank S. Meath United States Surveyor General for Arizona, bearing date of the 25th day of August, 1910, 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 North and South Boundaries of T. 16 N. R. 13 W.

_____ of the G. & S. P. 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.

John P. Hesse
United States Deputy Surveyor.

Subscribed by said John P. Hesse, and sworn to before me }
this 6th day of June, 1911



Frank S. Meath
W.D. Qu. Gril for Arizona

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Alfred H. Oliver Surveyor General, 1912

The foregoing field notes of the survey of the frac. North and South Boundaries of T. 16 N. R. 13 W., G. & S. P. Meridian, Arizona

executed by John P. Hesse and Alfred H. Oliver under his contract No. 4, dated August 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.

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.