

Accepted May 31, 1912

# FIELD NOTES

BOOK 2266

OF THE SURVEY OF THE

Fractional South Boundary of T. 11 N. R. 12 W.

2266

2266

Of the 6th T. R. Meridian,

In the State of Arizona

EXECUTED BY

John J. Hesse and  
Alfred N. Olson

In the capacity of U. S. <sup>Transient</sup> Surveyor, under instructions dated August 25, 1910,

issued by the United States Surveyor General to govern surveys included in

Group No. 4, 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 <sup>and March 4, 1911</sup>

Survey commenced March 24, 1911

Survey completed 4 24, 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

PRELIMINARY OATHS OF ASSISTANTS.

WE, R. A. Coombs and W. R. Panner  
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 frac'l. S. bdy. of Tp. 11 N. Rg. 12 W.

R. A. Coombs, Chainman.  
W. R. Panner, Chainman.

Subscribed and sworn to before me this 24<sup>th</sup>  
day of March, 1911



Alfred N. Oliver  
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 frac'l. S. bdy. of Tp. 11 N. Rg. 12 W.

J. Clay Dodson, Moundman.  
\_\_\_\_\_, Moundman.

Subscribed and sworn to before me this 24<sup>th</sup>  
day of March, 1911



Alfred N. Oliver  
U. S. Transitman

WE, J. C. J. 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 frac'l. S. bdy. of Tp. 11 N. Rg. 12 W.

J. C. J. Crowen, Axman.  
\_\_\_\_\_, Axman.

Subscribed and sworn to before me this 24<sup>th</sup>  
day of March, 1911



Alfred N. Oliver  
U. S. Transitman

I, Tom 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 frac'l. S. bdy. of Tp. 11 N. Rg. 12 W.

T. Shimpfessel, Flagman.

Subscribed and sworn to before me this 24<sup>th</sup>  
day of March, 1911



Alfred N. Oliver  
U. S. Transitman

BOOK 2266

# INDEX DIAGRAM.

Township 11 N, Range 12 W.

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30	29	28	27	26	25
31 /	32 2	33	34	35	36

Meanders Page .....

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 fract. S. boundary of Tp. 11 N. Rg. 12 W.

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

Subscribed and sworn to before me this 25<sup>th</sup>  
day of March, 1911



John P. Hesse  
U. S. Transcriber

WE, 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 fract. S. boundary of Tp. 11 N. Rg. 12 W.

R. L. Bates, Moundman.  
\_\_\_\_\_, Moundman.

Subscribed and sworn to before me this 25<sup>th</sup>  
day of March, 1911



John P. Hesse  
U. S. Transcriber

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 fract. S. boundary of Tp. 11 N. Rg. 12 W.

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

Subscribed and sworn to before me this 25<sup>th</sup>  
day of March, 1911



John P. Hesse  
U. S. Transcriber

I, L. E. Flanagan, 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 fract. S. boundary of Tp. 11 N. Rg. 12 W.

L. E. Flanagan, Flagman.

Subscribed and sworn to before me this 25<sup>th</sup>  
day of March, 1911



John P. Hesse  
U. S. Transcriber

# INDEX DIAGRAM.

Township \_\_\_\_\_, Range \_\_\_\_\_

6	5	4	3	2	1
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Meanders Page \_\_\_\_\_

South boundary of T<sub>p.</sub> 11 N. R<sub>s.</sub> 12 W.

Chains.

March 24: At 7h. 00m. a.m., l.m.t., I set off  $34^{\circ} 14\frac{1}{2}'$  N. on the lat. arc;  $1^{\circ} 10\frac{1}{2}'$  N. on the decl. arc; and determine a meridian with the solar at the cor. of T<sub>ps.</sub> 10 and 11 N. R<sub>s.</sub> 12 and 13 W. described in Book H.

Thence I run

East bet. secs. 6 and 31

Over rolling hilly land through dense brush.

.20	Cross wash 10 lks. wide course N. E.
5.00	Cross wash 20 lks. wide course N.
7.00	Cross wash 25 lks. wide course N.
17.00	Cross wash 200 lks. wide course N.
28.00	Cross wash 100 lks. wide course N. W.
39.80	Cross wash 20 lks. wide course N. W.
39.01	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 $\frac{1}{4}$ S31 in N. and S6 in S. half; and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
41.21	Cross wash 10 lks. wide course N. W.
50.11	Cross wash 15 lks. wide course N. W.
55.61	Cross wash 15 lks. wide course N. W.
57.41	Cross wash 15 lks. wide course N.
74.26	Cross wash 200 lks. wide course N.
79.01	Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for cor. of secs. 5, 6, 31 and 32, marked on brass cap T11N in N. T10N in S. and R12W in W. half; S31 in N. W. S32 in N. E. S5 in S. E. and S6 in S. W. quadrant; and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high W. of cor. Pits impracticable. Land, rolling and hilly. Soil; gravelly and rocky; 3rd. rate. No timber. Undergrowth, greasewood, paloverde and cacti.

March 24, 1911.

*Alfred N. Oliver*  
U. S. Transitman

Note: For description and test of instrument see Book H.

South boundary of Tp. 11 N. Rg. 12 W.

Chains.

Survey commenced March 24, 1911 and executed with an A. Lietz Co. light mountain transit No. 5631 with solar attachment.

I examine the adjustments of the transit and find them correct; then to test the solar apparatus, I proceed as follows:

At my camp in the S. W.  $\frac{1}{4}$  of sec. 19, Tp. 11 N. Rg. 12 W. I set off  $34^{\circ}17' \frac{1}{2} N.$  on the lat. arc;  $1^{\circ}20' N.$  on the decl. arc; and at 5h. 00m. 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 7h. 18m. p.m. by my watch which has correct l.m.t., I observe Polaris at western elongation, in accordance with 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.

March 24, 1911.

March 25: At 6h. 00m. a.m., l.m.t., I lay off the azimuth of Polaris  $1^{\circ}24'$  to the east, and mark the meridian thus determined, by cutting a small groove in the stone set March 24, on which the meridian falls 0.3 ins. east of the mark determined by the solar.

At 7h. 00m. a.m., l.m.t., I set off  $34^{\circ}17' \frac{1}{2} N.$  on the lat. arc;  $1^{\circ}34' N.$  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 falls 0.3 ins. east of the meridian established by the Polaris observation.

The solar apparatus, by p.m. and a.m. observations, defines positions for meridians, respectively about  $0'16''$  east and west of the meridian established by the Polaris observation; therefore, I conclude that the adjustments of the instrument are satisfactory.

I commence at the cor. of secs. 5, 6, 31 and 32 on the S. bdy. of the township, heretofore described.

Thence I run

East bet. secs. 5 and 32

Over rolling choppy hills through dense brush

4.00 Wash 15 lks. wide course N

10.00 Wash 10 lks. wide course N.

20.50 Wash 12 lks. wide course N.

26.75 Wash 10 lks. wide course N.

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  $\frac{1}{4}$ S32 in N. and S5 in S. half; and raise a mound of stone 2 ft. base  $1\frac{1}{2}$  ft. high, N. of cor. Pits impracticable.

46.64 Artillery Peak bears N.  $19^{\circ}36'$  W.

54.20 Dim road bears N. W. and S. E.

64.00 Wash 100 lks. wide course N. W.

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

T11N in N.

T10N in S. and

R12W in W. half;

S32 in N. W.

S33 in N. E.

S4 in S. E. and

S5 in S. W. quadrant; dig pits 18 x 18 x 12 ins. in each sec.  $5\frac{1}{2}$  ft. dist., and raise a mound of earth 4 ft. base 3 ft. high, W. of cor.

From this cor. Artillery Peak bears N.  $22^{\circ}05'$  W.

Land, hilly.

Soil, sandy loam mixed with gravel and rocks; medium; texture; dry; 2nd. rate.

No timber.

Undergrowth, greasewood and paloverde.

*John P. Hesse*  
U.S. Transitman



3. South Boundary of Township 11 North, Range 12 West.  
Chains,

General Description.

This township is rolling and mountainous, excepting for a strip along the Bill Williams Fork, which is level and very fertile. The township is watered by the Bill Williams Fork, along which grow cottonwood timber.

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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 frac'l. S. bdy. of Tp. 11 N. Rg. 12 W. showing the respective capacities in which they acted:

- A. E. Lyon ..... Chainman.
- J. H. Bates ..... Chainman.
- R. L. Bates ..... Moundman.
- ..... 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 frac'l. S. bdy. of Tp. 11 N. Rg. 12 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.
- J. H. Bates ..... Chainman.
- R. L. Bates ..... Moundman.
- ..... Moundman.
- Ed. Brockway ..... Axman.
- J. P. Ellis ..... Axman.
- L. E. Flanagan ..... Flagman.

Subscribed and sworn to before me this 28th day of March, 1911

John P. Hesse  
U. S. Transitman



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BOOK 2266

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, John P. Hesse, <sup>Transitman</sup> United States Deputy Surveyor, do solemnly swear that, in pursuance of <sup>instructions</sup> a ~~contract~~ received from Frank S. Ingalls United States Surveyor General for Arizona, bearing date of the 25th day of August, 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 South Boundary N 21 1/2 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 \_\_\_\_\_ 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.  
<sup>Transitman</sup>

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

Frank S. Ingalls  
U.S. Dep. Gen. for Arizona



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.

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

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BOOK 2266

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 fract.  
South Boundary of T 11 N. R 12 W.

showing the respective capacities in which they acted:

R. M. Coombs, Chainman.

W. D. Jamieson, Chainman.

Clay Dodson, Moundman.

B. S. Crown, Moundman.

B. S. Crown, Axman.

B. S. Crown, Axman.

J. Schimpf, 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 fract. S. bdy. of T 11 N. R 12 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. G. Coombs, Chainman.

A. D. Jamieson, Chainman.

Clay Dodson, Moundman.

B. S. Crown, Moundman.

B. S. Crown, Axman.

B. S. Crown, Axman.

J. Schimpf, Flagman.

Subscribed and sworn to before me this 28<sup>th</sup>  
day of March, 1911

Alfred N. Oliver  
U. S. Transitman



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BOOK 2266

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

I, Alfred N. Oliver, <sup>Transitman</sup> United States Deputy Surveyor, do solemnly swear that, in pursuance of ~~a contract~~ <sup>instructions</sup> received from Frank S. 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 fractional S. bdy. of T. 11 N. R. 12 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.

Subscribed by said Alfred N. Oliver, and sworn to before me }  
this 7th day of January, 1912

Frank S. Ingalls  
U. S. Surveyor General



APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL.

The foregoing field notes of the survey of the fractional South Boundary of T. 11 N. R. 12 W. Arizona of the G. S. R. Meridian, Arizona, Transitman Frank S. Ingalls Jan. 4, 1912

executed by Alfred N. Oliver John J. Nessel M.P. Transitman 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.