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Book P

BOOK 2271

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Accepted May 31 - 1912

FIELD NOTES

OF THE SURVEY OF THE

Regulatory Subdivision of T. 15 N. R. 12 W.

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Of the *T. 15 N. R. 12 W.* Meridian,

In the ^{Terr.} State of *Arizona*

EXECUTED BY

John J. Hesse

In the capacity of U. S. ^{Assistant} 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* ^{and March 4, 1911}.

Survey commenced *April 28*, 191*1*

Survey completed *" 29*, 191*1*

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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

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INDEX DIAGRAM.

Township 15 N, Range 12 W.

6	5	4	3	2	1
7	8	9	10	11	12
2					
18	2	17	16	15	14
1					
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

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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 subdivision lines of Tp. 15 N. Rg. 12 W.

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

Subscribed and sworn to before me this 29th
day of April, 1911



John P. Hesse
U. S. Transitman

WE, J. R. R. Bates and
do solemnly swear that I will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given me to the best of my skill and ability, in the survey of the subdivision lines of Tp. 15 N. Rg. 12 W.

J. R. R. Bates, Moundman.
Moundman.

Subscribed and sworn to before me this 29th
day of April, 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 subdivision lines of Tp. 15 N. Rg. 12 W.

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

Subscribed and sworn to before me this 29th
day of April, 1911



John P. Hesse
U. S. Transitman

I, L. E. 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 subdivision lines of Tp. 15 N. Rg. 12 W.

L. E. Planagan, Flagman.

Subscribed and sworn to before me this 29th
day of April, 1911



John P. Hesse
U. S. Transitman

Subdivision of Tp. 15 N. Rg. 13 W.

Chains

Survey commenced April 28, 1911 and executed with an A. Lietz Co. light mountain transit No. 5631, 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 verniers of the latitude and declination arcs.

The instrument was examined, found correct and was approved by the Supervising Surveyor.

I examine the adjustments of the transit, 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 the true point for cor. of secs. 13, 18, 19 and 24 Tps. 15 N. Rgs. 12 and 13 W. Latitude $34^{\circ} 38' W.$; longitude $113^{\circ} 33' 24'' W.$ I set off $34^{\circ} 38' N.$ on the lat. arc; $14^{\circ} 04\frac{1}{2}' N.$ 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 the cor.

April 28, 1911.

April 29: At 5h. 05m. a.m., by my watch, which has correct l.m.t., I observe polaris at eastern 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.

At 6h. 00m. a.m., l.m.t., I lay off the azimuth of Polaris $1^{\circ} 25'$ to the west, and mark the meridian thus determined by cutting a small groove in the stone set April 28, 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 $34^{\circ} 38' N.$ on the lat. arc; $14^{\circ} 15' N.$ 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 observations; therefore; I conclude that the adjustments of the instrument are satisfactory.

The magnetic bearing of the true meridian at 7h. 15m. a.m., is N. $14^{\circ} 30' W.$; the angle thus determined gives the mag. decl. $14^{\circ} 30' E.$

From the true point for cor. of secs. 13, 18, 19 and 24 On the west boundary of the Tp. I now run

East bet. secs. 18 and 19
Over dry bed of river.

- | | |
|-------|--|
| 3.19 | East bank of Big Sandy River. |
| 3.64 | Cross fence bears N. W. and S. E. |
| 3.93 | Cross road bears N. E. and S. W. |
| 13.21 | Sandstone cliff 50 ft. high and over rolling mountainous land. |
| 38.75 | 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 S18 in N. and S19 in S. half; and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable. |
| 40.05 | Wash 25 lks. wide course S. W. |
| 41.50 | Cross wash 20 lks. wide course S. W. |
| 57.10 | Cross wash 25 lks. wide course N. W. |
| 63.00 | Cross wash 26 lks. wide course S. W. |
| 68.12 | Cross wash 25 lks. wide course N. W. |
| 78.75 | Set an iron post 3 ft. long 3 ins. diam., 24 ins. in the ground for cor. of secs. 17, 18, 19 and 20, marked on brass cap T15NR12W in N. half; |

Subdivision of Tp. 15 N. Rg. 12 W.

Chains.

S18 in N. W.
 S17 in N. E.
 S20 in S. E. and
 S19 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, level and mountainous.
 Soil, to 3.17 chs. loose sand; worthless; from 3.17 chs. to 13.21 chs. adobe, with considerable alkali; fine texture; 2nd. rate.: from 13.21 chs. to 78.75 chs. rocky; 4th. rate.
 No timber.
 Undergrowth, mesquite, greasewood, catclaw, paloverde

N. 0° 03' W. bet. secs. 17 and 18

Over rocky rolling hills through dense brush.
 12.50 Cross wash 12 lks. wide course S. W.
 17.00 Cross wash 10 lks. wide course S. E.
 18.10 Cross wash 12 lks. wide course S. E.
 34.10 Cross wash 10 lks. wide course S. W.
 38.50 Cross wash 25 lks. wide course S. W.
 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 $\frac{1}{4}$ S18 in W. and S17 in E. half; and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
 72.00 Cross wash 20 lks. wide course S. W.
 80.00 Set an iron post 3 ft. long, 2 ins. diam. 24 ins. in the ground for cor. Of secs. 7, 8, 17 and 18, marked on brass cap
 T15NR12W in N. half;
 S7 in N. W.
 S8 in N. E.
 S17 in S. E. and
 S18 in S. W. quadrants; and raise a mound of stone 2 ft base $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
 Land, rocky rolling hills.
 Soil, rocks; 4th. rate.
 No timber.
 Undergrowth; greasewood and paloverde and catclaw.
 April 29; At this cor. I set off $14^{\circ} 18'$ N. on the decl. arc; and observe the sun on the meridian at noon; the resulting lat. is $34^{\circ} 39'$ N.

West on a random line bet. secs. 7 and 18

40.00 Set temp. $\frac{1}{4}$ sec. cor.
 78.76 Intersect W. bdy. of township 9 lks. S. of the cor. of secs. 7, 12, 13 and 18.
 Thence I run
 S. $89^{\circ} 56'$ E. on a true line bet. secs. 7 and 18
 Over rough rocky hills through dense brush.
 3.25 Cross wash 10 lks. wide course S. W.
 38.76 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 $\frac{1}{4}$ S7 in N. and S18 in S. half; and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.
 58.75 Cross wash 18 lks. wide course S. W.
 78.76 The cor. of secs. 7, 8, 17 and 18.
 Land, Rough, rocky hills.
 Soil, rocky; 4th. rate.
 No timber.
 Undergrowth; greasewood, paloverde, catclaw and mesquite.

April 29, 1911.

Subdivision of Tp. 15 N. Rg. 12 W.

Chains.

General Description.

This township, with the exception of about 160 acres along the Big Sandy River in sec. 18, is rough and mountainous and of no value for agricultural purposes, therefore I confine my surveys in this township to the lines necessary to survey sec. 18 in which the land along the Big Sandy river is very fertile and capable of raising abundant crops with irrigation. The Big Sandy river runs along the West boundary of this sec. but carries no water in the dry season. Telly Bland has a claim in this sec.

John F. Hesse
U.S. Transitman

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
sub-division lines of Tp. 15 N. Rg. 12 W.
showing the respective capacities in which they acted:

A. E. Lyon Chainman.

J. H. 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 sub-division lines of Tp. 15 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.

Ed. Brockway Axman.

J. P. Ellis Axman.

L. E. Flanagan Flagman.

Subscribed and sworn to before me this 29th
day of April, 19 11

John P. Hesse
U. S. Transitman



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

I, John F. Hesse, ^{Transition} United States Deputy Surveyor, do solemnly swear that, in pursuance of a ^{instructions} contract 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 Subdivision lines of T. 15 N. R. 12 W.

of the G. S. R. 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 F. Hesse
United States Deputy Surveyor.

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

Frank S. Ingalls
U.S. Sur. Genl. for Arizona



APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Henry C. Ingalls, January 4, 1912,
The foregoing field notes of the survey of the fragmentary subdivision of T. 15 N. R. 12 W., G. S. R. Meridian, Arizona

executed by John F. Hesse, U.S. Transition under his ^{group} contract No. 1, 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.