OATH OF ASSISTANTS

We hereby certify that we assisted 

Surveyor Davenport in surveying all those parts or portions of Homestead Entry Survey No. 427, in the State of Arizona, which are represented in the following 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.

Note: It would have been very expensive and inconvenient to appear before an officer to administer oaths to assistants; hence, they were taken by the Surveyor.

Subscribed and sworn to before me this day of December, 1915.

OATH OF SURVEYOR

I, 

Surveyor Davenport

do solemnly swear that, in strict conformity with the special instructions of the United States Surveyor General for Arizona, dated September 23, 1915, and the laws of the United States, I have well, faithfully, and truly, in my own proper person, surveyed a tract of land embraced in Act No. 3, 860, dated November 14, 1910 and a tract of land from the Application of 

Application No. 204, dated February 21, 1910, for patent, under the Act of January 11, 1906, the same to be known as Homestead Entry Survey No. 427, situated within the 

National Forest, in 

unsurveyed Section 20, Township 11N, Range 9E, and surveyed Section ----, Township ----, Range ----.

of the 

Eldorado and Campout meridians, Arizona, and the related retracements and resurveys and section subdivisions, which are represented in the following field notes as having been surveyed by me; and I further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the stated special instructions, and in the specific manner described in the field notes, and that the following are the original field notes of such survey.

Subscribed and sworn to before me this day of March, 1916.

My Commission expires April 20, 1913.
Chains

Applicant for listing: T. Reesle; Application No. 204, dated February 21, 1910; List No. 3-860, dated November 14, 1910; H. E. O14644, made in the Phoenix Land Office on June 29, 1911 by T. Reesle.

Also a tract of unlisted land adjoining claimant's entry was included in this survey; the land is agricultural in character, was desired by entryman and will be listed as a basis for amendment of his entry No. O14644.

Surveyed under special instructions from the Surveyor General for Arizona, dated September 23, 1915, and designated as Homestead Entry Survey No. 427.

Situated in unsurveyed T. 11-1/2 N., R. 9 E., in what will probably be, when surveyed, sec. 20, Gila and Salt River Base and Meridian, Tonto National Forest, Arizona.


Survey commenced November 29, 1915, and executed with a Buff and Buff transit No. 9700-6.

I test the adjustments of the transit and make necessary corrections.

All measurements were made directly on the slope with a 500 link steel tape. The slope angles were determined with a clinometer. Horizontal distances only appear in these notes.

November 29, 1915.

At 8h. 22.8m. a.m., I observe the altitude of the sun for azimuth at cor. No. 1 of this survey. The reading on the reference object is set at zero and the sun was observed in the lower left and upper right quad-
Chains

rants of the field. My watch is set for local mean
time. Latitude 34° 22' 36" N., Long. 111° 26' 55" W.,
from special instructions from the Surveyor General.
Telescope Time Horizontal Vertical
Direct Sh. 22m. 21s. 47° 57' 00" 17° 01' 30"
Reversed Sh. 23m. 13s. 48° 20' 00" 16° 40' 00"
Bearing of reference object, N. 0° 03' 03" E.

<table>
<thead>
<tr>
<th>Telescope</th>
<th>Time</th>
<th>Horizontal Angle</th>
<th>Vertical Angle</th>
</tr>
</thead>
<tbody>
<tr>
<td>Direct</td>
<td>Sh. 22m. 21s.</td>
<td>47° 57' 00&quot;</td>
<td>17° 01' 30&quot;</td>
</tr>
<tr>
<td>Reversed</td>
<td>Sh. 23m. 13s.</td>
<td>48° 20' 00&quot;</td>
<td>16° 40' 00&quot;</td>
</tr>
</tbody>
</table>

At Sh. 22.6m. a.m., l.m.t., I again observe the altitude
of the sun for azimuth at cor. No. 1. The reading
on the reference object is set at zero and the sun
was observed in the lower left and upper right quad-
rants of the field.

<table>
<thead>
<tr>
<th>Telescope</th>
<th>Time</th>
<th>Horizontal Angle</th>
<th>Vertical Angle</th>
</tr>
</thead>
<tbody>
<tr>
<td>Direct</td>
<td>Sh. 22m. 00s.</td>
<td>47° 27' 30&quot;</td>
<td>17° 25' 00&quot;</td>
</tr>
<tr>
<td>Reversed</td>
<td>Sh. 23m. 00s.</td>
<td>47° 50' 00&quot;</td>
<td>17° 05' 00&quot;</td>
</tr>
</tbody>
</table>

Bearing of reference object, N. 0° 02' 25" E.
The mean of these is N. 0° 02' 44" E., and to the cor-
responding meridian all the courses of this survey
are referred.

RETRACEMENT

From cor. for secs. 36 and 31, T. 12 N., Rg. 8 and 9 E.,
which is a two inch iron pipe, marked and witnessed
as described by the Surveyor General.

Thence West,
On a random line along South bdy. sec. 36.

40.12 Fall 2 lks. N. of 1/4 sec. cor. on S. bdy. sec. 36,
which is a sandstone 12 x 8 x 12 ins. above ground,
marked with + on top, N. W. 1 and 1/4 on N. face, wit-
nessed as described by the Surveyor General.
<table>
<thead>
<tr>
<th>Chains</th>
<th>40.12</th>
<th>Cor. for secs. 35 and 31, heretofore described.</th>
</tr>
</thead>
</table>

Beginning at cor. No. 1 and C. C. on S. line of sec. 36. Identical with cor. H-1 of the list survey, which is a sandstone 10 x 8 x 8 ins. above ground, marked and witnessed as described by the Forest Service. I destroy all trace of this list cor. Deposit broken glass, 14 ins. in the ground, over which set a sandstone 24 x 10 x 4 ins. chiseled for the point, C C on SSE. face and 1 - H E S 427 on SW. face; and raise a mound of stone 3 ft. base, 2 ft. high, SSE. of cor., whence:

A yellow pine, 8 ins. dia., bears S. 56°
26' W., 88 lks. dist., blazed and scribed 1 H E S 427 + B T.

A yellow pine, 6 ins. dia., bears S. 3°
49' E., 84 lks. dist., blazed and scribed 1 H E S 427 + B T.

Cor. for secs. 31 and 36, heretofore described, bears N. 89° 58' E., 5.00 chs. dist.

1/4 cor. on S. bdg. of sec. 36, heretofore described, bears S. 89° 58' W., 35.12 chs. dist.

Latitude 34° 22' 56" N., Long. 111° 26' 55" W., from special instructions from the Surveyor General, and later verified.

Mag. Va., at 8 a.m., 14° 30' E., Mean mag. va., 14° 27' E.

Thence S. 4° 54' E.

In timber, over level land. Leave listed and enter unlisted land.
CHAINS

8.00 Leave timber, bears NW. and SE.

8.50 Pine - Payson road, bears NW. and SE.

14.15 Fence, bears NW. and SE.

19.16 To cor. No. 2.

Deposit broken glass 14 ins. in the ground, over which set a sandstone 24 x 8 x 6 ins. chiseled + for the point and 2 - H E S 427 on W. face; and raise a mound of stone 3 ft. base, 2 ft. high W. of cor., whence:

A yellow pine, 10 ins. dia., bears S. 44° 16' W., 90 lbs. dist., blazed and scribed 2 H E S 427 + B T.

A yellow pine, 10 ins. dia., bears N. 36° 14' W., 48 lbs. dist., blazed and scribed 2 H E S 427 + B T.

Cor. H-2 of the list survey, which is a 14 inch yellow pine, marked and witnessed as described by the Forest Service, bears S. 60° 15' W., 1.90 chs. dist. I destroy all trace of this list cor.

Thench S. 56° 18' W.

In timber, over level land.

2.00 Leave timber, bears NE. and SW.

6.66 Enter wash, 4 ft. deep, course SW.

8.20 Leave wash.

8.46 To cor. No. 3.

Deposit broken glass 14 ins. in the ground, over which set a limestone 24 x 14 x 4 ins. chiseled + for the point and 3 - H E S 427 on NE. face; and raise a mound of stone 3 ft. base, 2 ft. high NE. of cor., whence:
A yellow pine, 10 ins. dia., bears N. 51° 07' E., 106 lks. dist., blazed and scribed 3 H E S 427 + B T.

A yellow pine, 8 ins. dia., bears S. 49° 30' E., 161 lks. dist., blazed and scribed 3 H E S 427 + B T.

Thence North.

In open, over level land.

2.60 Fence, bears NE. and SW. East bank Pine Creek, 8 ft. deep. Enter wash.

3.60 Point for cor. H-3, which has been washed away. Leave unlisted and enter listed land.

7.00 East bank Pine Creek. Leave wash.

8.60 East bank Pine Creek. Enter wash.

11.00 East bank Pine Creek. Leave wash.

11.10 Fence, bears NW. and SE.

13.80 To cor. No. 4.

Identical with cor. H-4 of the list survey, which is a limestone 13 x 10 x 9 ins. above ground, marked and witnessed as described by the Forest Service. I destroy all trace of this list cor. Deposit a stone 4 x 2 x 2 ins., marked with a 14 ins. in the ground, over which set a sandstone 24 x 12 x 6 ins. chiseled for the point and 4 - H E S 427 on NE. face; raise a mound of stone 3 ft. base, 2 ft. high, NE. of cor., whence:

A yellow pine, 12 ins. dia., bears S. 25° 28' W., 57 lks. dist., blazed and scribed 4 H E S 427 + B T.

A cottonwood, 10 ins. dia., bears N. 61° 47' W., 149 lks. dist., blazed and
Thence N. 89° 24' W.
In open, over level land, only following a

0.85 Fence, bears NW. and SSE.

1.00 East bank Pine Creek, 4 ft. high, course South.

6.00 West bank Pine Creek, 3 ft. high. Ascend 75 ft. to
cor.

6.20 Enter timber, bears NW. and SSE.

10.16 To cor. No. 5.

Identical with cor. No. 5 of the list survey, which is
a red granite stone 18 x 12 x 12 ins. in mound of stone,
marked and witnessed as described by the Forest Service.
I destroy all trace of this list cor. Deposit a stone
5 x 3 x 3 ins. marked with a + 5 ins. in the ground;
over which set a granite stone 24 x 8 x 4 ins. chis-
ed + for the point and 5 - H E S 427 on the NE. face;
and raise a mound of stone 3 ft. base, 2 ft. high
around cor. to protect it, whence:

An oak, 6 ins. dia., bears N. 52° 17' E.,
26 lbs. dist., blazed and scribed
5 H E S 427 + B T.

A yellow pine, 6 ins. dia.; bears N. 79°
22° W., 25 lbs. dist., blazed and
scribed 5 H E S 427 + B T.

Note: It was impracticable to set cor. stone deeper
in ground.

Thence N. 2° 47' E.

Descend steep NW. slope 75 ft. in timber to arroyo.

4.13 Leave timber, enter arroyo, banks 4 ft. high, course E.
<table>
<thead>
<tr>
<th>Chains</th>
<th>6.20</th>
<th>Leave arroyo, banks 4 ft. high, course S.</th>
</tr>
</thead>
<tbody>
<tr>
<td>8.28</td>
<td>Road, bears NNE. and SW.</td>
<td></td>
</tr>
<tr>
<td>8.63</td>
<td>Cor. fence, fence bears SW. and N. 2° 47' E.</td>
<td></td>
</tr>
<tr>
<td>9.83</td>
<td>To cor. No. 6 and C. C. on S. line sec. 36.</td>
<td></td>
</tr>
</tbody>
</table>

Identical with cor. H-6 of the list survey, which is a limestone 14 x 10 x 10 ins. above ground, marked and witnessed as described by the Forest Service. I destroy all trace of this list cor. Deposit a stone 4 x 4 x 4 ins. marked with a + 14 ins. in the ground, over which set a sandstone 24 x 8 x 4 ins. chiseled + for the point, O C on the S. face and 6 - H E S 427 on the SE. face; and raise a mound of stone 3 ft. base, 2 ft. high S. of cor., whence:

| 1/4 Cor. on S. bay. sec. 36 heretofore described, bears S. 89° 58' W., 20.07 chs. |

| Cor. to secs. 31 and 36 heretofore described, bears N. 89° 58' E., 20.07 chs. |

| Thence N. 89° 58' E. |

Along S. line sec. 36, in open. Over level land.

| 0.50 | Road, bears N. and S. |
| 1.40 | West bank Pine Creek, 2 ft. high, course S. |
| 3.00 | East bank Pine Creek, 7 ft. high, course S. |
| 3.10 | Cor. fence, fence bears SSW. Continue along fence. |
| 9.80 | Cor. fence, fence bears S. Continue along fence. |
| 12.00 | Irrigation ditch, 6 lbs. wide, course SSE. |
| 12.84 | Cor. fence, fence bears SE. Leave fence. |
| 12.15 | Pine - Payson wagon road, bears NW. and SE. |
HOMESTEAD ENTRY SURVEY NO. 427
TONTO NATIONAL FOREST
STATE OF ARIZONA

Chains
12.25 Enter timber, bears NW. and SE.
15.07 To cor. No. 1, the place of beginning.

Area of listed land - - - - - - - - - - - - - - - - 20.00 acres
Area of unlisted land - - - - - - - - - - - - - - - .32 acres
Total area - - - - - - - - - - - - - - - - - - - - - - 23.32 acres

IMPROVEMENTS

The improvements made upon and for the benefit of this claim and belonging to the claimant, consist of the following:

A frame dwelling, 12 ft. square, the NE. cor. of which bears S. 32° E. 20' W., 4.15 ch. dist. from cor. No. 1.
Value . . . ............................ $50.00

A stone and canvas dwelling, 10 x 8 ft., the long side of which bears E. and W. end the SE. cor. of which bears N. 45° W., 15 lks. dist. from cor. No. 2.
Value . . . ............................ $25.00

There is approximately one mile of wire fence.
Value . . . ............................ $100.00

DESCRIPTION

This claim is situated in S. end of an open flat on Pine Creek, 3 miles South and 2 miles East of Mogollon Rim. The general slope is to South with slight East slope to creek.

There are two small bodies of pine timber on tract; one in NE., and one on steep slope on W., covering a total of approximately 2 acres.

The soil in the bottom land is sandy loam, weathering

...
Chains

product of limestone and sandstone. It is deep, fertile, and produces good crops. The soil on the steep slope on West is rocky and non-tillable.

Water for domestic use can be obtained from Pine Creek.

There is no water for irrigation and none is necessary.

There is approximately 15 acres in cultivation.

I saw no indications of mineral upon this claim.

CONFLICTS AND ADJOINING CLAIMS

This claim is joined on the N. by H. E. No. 816 of James L. Patterson. There are no conflicts.

Pine, the nearest post office, is one-half mile North.

The nearest railroad point is Flagstaff, about 90 miles to North and reached by a good wagon road.

TRaverse

<table>
<thead>
<tr>
<th>Cor.</th>
<th>Course</th>
<th>Dist.</th>
<th>N</th>
<th>S</th>
<th>E</th>
<th>W</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-2</td>
<td>S. 4° 54' E.</td>
<td>19.16</td>
<td>19.09</td>
<td>1.64</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2-3</td>
<td>S. 56° 18' W.</td>
<td>8.46</td>
<td>4.69</td>
<td>7.04</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3-4</td>
<td>North</td>
<td>13.80</td>
<td>13.80</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4-5</td>
<td>N. 89° 24' W.</td>
<td>10.16</td>
<td>0.11</td>
<td>10.16</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5-6</td>
<td>N. 2° 47' E.</td>
<td>9.83</td>
<td>9.82</td>
<td>0.48</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6-1</td>
<td>N. 89° 38' E.</td>
<td>15.07</td>
<td>0.01</td>
<td>15.07</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Error in Lat. and Dep. 23.74 22.78 17.19 17.20

Closing error, 1:1866.

Survey completed November 29, 1915.

Surveyor - Draftsman
<table>
<thead>
<tr>
<th>Chains</th>
</tr>
</thead>
<tbody>
<tr>
<td>12.5</td>
</tr>
</tbody>
</table>

**COMMENTS:**

The survey is subject to the rules of the Forest Service.

**TABLE:**

<table>
<thead>
<tr>
<th>Description</th>
<th>Date</th>
<th>Hours</th>
<th>Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Receipt</td>
<td>1-10</td>
<td>10.0</td>
<td>0.5</td>
</tr>
<tr>
<td>Payment</td>
<td>1-10</td>
<td>10.0</td>
<td>0.5</td>
</tr>
</tbody>
</table>

**Additional Notes:**

- The property is subject to federal lands.
- All rights reserved by the federal government.

Lat. 34° 22' 36" N. Long. 111° 26' 55" W. Elev. 5500 ft.

Telescope Time Horizontal Vertical Pos. Angle Angle Sun

Direct 8h. 22m. 21s. 47° 57' 00" 17° 01' 30" 4°
Reversed 8h. 23m. 48s. 47° 20' 00" 16° 40' 00"
Mean 8h. 22m. 37s. 47° 08' 15" 16° 50' 45"
8h. 24m. 00s. ref. cor. 02' 37"
8h. 23m. 59s. 16° 48' 08"

Decl. 21° 22' 43" S.

\[
\begin{align*}
\cos \beta &= -\sin \alpha \\
\cos \delta &= \cos \alpha \cos \beta \\
\tan \alpha &= \tan \beta \\
\end{align*}
\]

log. sin. 21° 22' 43" = 9.561732
log. cos. 34° 22' 36" = 9.946635
log. cos. 17° 12' 27" = 9.46256

log. tan. 34° 22' 36" = 9.356130
log. tan. 17° 12' 27" = 9.490934

Bearing of reference object, N. 0° 02' 25" E.


Telescope Time Horizontal Vertical Pos. Angle Angle Sun

Direct 8h. 25m. 00s. 47° 27' 30" 17° 28' 00" 5°
Reversed 8h. 26m. 00s. 47° 30' 00" 17° 05' 00" +
8h. 25m. 30s. 47° 30' 45" 17° 15' 00" 02' 32"
8h. 25m. 59s. 17° 12' 27"

Decl. 21° 22' 43" S.

\[
\begin{align*}
\cos \beta &= -\sin \alpha \\
\cos \delta &= \cos \alpha \cos \beta \\
\tan \alpha &= \tan \beta \\
\end{align*}
\]

log. sin. 21° 22' 43" = 9.561732
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log. tan. 34° 22' 36" = 9.356130
log. tan. 17° 12' 27" = 9.490934

Bearing of reference object, N. 0° 02' 25" E.
TABLEING AND CALCULATIONS OF HOMESTEAD ENTRY SURVEY NO. 427, STATE OF ARIZONA

<table>
<thead>
<tr>
<th>CORNERS</th>
<th>BEARING</th>
<th>DISTANCE</th>
<th>LATITUDES</th>
<th>DEPARTURES</th>
<th>DOUBLE M. D.</th>
<th>N. AREAS</th>
<th>S. AREAS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>NORTH</td>
<td>SOUTH</td>
<td>EAST</td>
<td>WEST</td>
<td></td>
</tr>
<tr>
<td>1-2</td>
<td>S. 4° 54' E.</td>
<td>19.16</td>
<td>19.09</td>
<td>1.84</td>
<td>32.75</td>
<td>624.97</td>
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<tr>
<td>2-3</td>
<td>S. 56° 10' W.</td>
<td>8.46</td>
<td>4.69</td>
<td>7.04</td>
<td>27.36</td>
<td>128.32</td>
<td></td>
</tr>
<tr>
<td>3-4</td>
<td>North</td>
<td>12.80</td>
<td>13.80</td>
<td></td>
<td>20.32</td>
<td>280.62</td>
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<tr>
<td>4-5</td>
<td>N. 89° 24' W.</td>
<td>10.16</td>
<td>0.11</td>
<td>10.16</td>
<td>10.16</td>
<td>1.82</td>
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<tr>
<td>5-6</td>
<td>N. 2° 47' E.</td>
<td>9.92</td>
<td>9.82</td>
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<td>0.48</td>
<td>4.71</td>
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<tr>
<td>6-1</td>
<td>N. 89° 58' E.</td>
<td>15.07</td>
<td>15.07</td>
<td>17.19</td>
<td>17.20</td>
<td>286.87</td>
<td>752.19</td>
</tr>
</tbody>
</table>

76.48  23.74  23.78  17.19  17.20  286.87  752.19

22.74  22.74  17.20  17.20

Closing error, 1:1836

22.32 Acres.
APPROVAL

Office of the United States Surveyor General,

Phoenix, Arizona, March 16, 1918.

The foregoing field notes of Homestead Entry Survey No. 427 executed by R.P.A. Johnson, Surveyor-draftsman [Forest Service Title] under his special instructions, dated September 23, 1915, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

U. S. Surveyor General.

I certify that the foregoing transcript of the field notes of the above-described survey in the State of Arizona, has been correctly copied from the original notes on file in this office.

Frank P. Trott
U. S. Surveyor General.