U. S. DEPARTMENT OF AGRICULTURE
FOREST SERVICE

FIELD NOTES

OF
HOMESTRAD ENTRY SURVEY NO. 543

SITUATED IN THE
PRESCOTT NATIONAL FOREST

ADMINISTRATIVE DISTRICT NO. 3

In Section 33, unsurveyed, Township 14 N., Range 2 E.

of the
Gila and Salt River Base and Meridian.

State of
ARIZONA

Applicant for listing
Mary Rust

Residence
Dewey, Arizona

Application No. 290, dated April 10, 1917

List No.

Applicant for survey

Residence

H. E. No.

Office

Land District

Phoenix, Arizona

Survey executed by R. F. A. Johnson

Surveyor - Draftsman

Under special instructions dated May 12, 1917

Survey commenced May 30, 1917

Survey completed June 2, 1917

OATH OF ASSISTANTS

We hereby certify that we assisted A.R. Johnson in surveying all those parts or portions of Homestead Entry Survey No. 543, 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.

Chairman

[-]

Subscribed and sworn to before me this 24th day of June, 1917.

Surveyor Draftsman

OATH OF SURVEYOR

I, A.R. Johnson, Surveyor Draftsman, do solemnly swear that, in strict conformity with the special instructions of the United States Surveyor General for Arizona, dated May 18, 1917, and the laws of the United States, I have well, faithfully, and truly, in my own proper person, surveyed a tract of land under the Cooperative Plan, embraced in Application No. 290, dated April 18, 1917, for the same to be known as Homestead Entry Survey No. 543, situated within the Sec. 33, Township 14N, Range 2W, and surveyed Section 32, Township 14N, Range 2E, and

of the Gila and Salt River Gila meridian, 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.

Surveyor Draftsman

Subscribed and sworn to before me this 25th day of July, 1917.

Notary Public
Homestead Entry Survey No. 543
Prescott National Forest
State of Arizona

Chains
Applicant for listing Mary Rust; Application No. 290, dated April 18, 1917.
Surveyed under special instructions from the Surveyor General for Arizona, dated May 12, 1917 and designated as Homestead Entry Survey No. 543.
Situated in what will probably be, when surveyed, Sec. 33, T. 14 N., R. 2 E., Gila and Salt River Base and Meridian, Prescott National Forest, Arizona.

Survey commenced May 30, 1917 and executed with a Buff and Buff transit equipped with Smith solar attachment.
I test the adjustments of the transit and make necessary corrections.
All distances are horizontal, and were reduced from measurements made directly on the slope with a 300 link steel tape. The slope angles were determined with a clinometer.

May 30, 1917, p.m.
I observe Polaris at cor. No. 1, hereinafter described, for azimuth. The reading on the reference object is set at zero and my watch is set for local mean time.

Lat. 34° 32' 30" N., Long. 112° 07' .50" W., from Jerome Quadrangle, U. S. G. S.

<table>
<thead>
<tr>
<th>Telescope</th>
<th>Time</th>
<th>Horizontal Angle West of Star</th>
</tr>
</thead>
<tbody>
<tr>
<td>Direct</td>
<td>Th. 23m. 12s.</td>
<td>7° 19' 30&quot;</td>
</tr>
<tr>
<td>Reversed</td>
<td>Th. 24m. 54s.</td>
<td>7° 20' 30&quot;</td>
</tr>
<tr>
<td>Mean</td>
<td>Th. 23m. 53s.</td>
<td>7° 20' 00&quot;</td>
</tr>
</tbody>
</table>
HOMESEAD ENTRY SURVEY NO. 543
PRESCOTT NATIONAL FOREST
STATE OF ARIZONA

Chains

1.m.t. obsn., May 30, 1917, p.m. Th. 22.9m.
Corracted 1.m.t. U.C. Pol., a.m. Sh. 59.5m.
Hour Angle Polaris at obsn. 10h. 24.6m.
Azimuth of Polaris, 0° 32' 36"
Bearing of reference object, N. 7° 52' 36" W.

I again observe Polaris for azimuth at cor. No. 1, hereafter described. The reading on the reference object West of star is set at zero.

Telescope Time Horizontal Angle West of Star
Direct Th. 25m. 33s. 7° 21' 00"
Reversed Th. 25m. 36s. 7° 22' 00"
Mean Th. 25m. 39.5s. 7° 21' 30"

1.m.t. obsn., May 30, 1917, p.m. Th. 26.0m.
Corracted 1.m.t. U.C. Pol., May 30, a.m. Sh. 59.6m.
Hour Angle Polaris at obsn. 10h. 26.7m.
Azimuth of Polaris, 0° 31' 42"
Bearing of reference object, N. 7° 53' 12" W.
The mean of the two observations is N. 7° 52' 54" W., and from the corresponding meridian all the courses of this survey were deflected.

RETRACEMENT

June 1, 1917

From the cor. for secs. 3, 4, 33 and 34, Ts. 13 and 14 N. R. 2 E., which is a granite stone, 8 x 6 x 6 ins. above ground, marked as described by the Surveyor General.

No witnesses.

Thence West.

On random line bet. secs. 4 and 33.

39,95

1/4 sec. cor. bet. secs. 4 and 33, which is described by the Surveyor General as a granite stone, with mound of
HOMESTEAD ENTRY SURVEY NO. 543

PRESIDENT NATIONAL FOREST

STATE OF ARIZONA

Chains stone. I find an iron pipe, 1/2 inch in dia., with brass cap, marked S 54 on N. half, and S 4 on S. half, and dated 1917. (Group No. 61.)

Thence East.

On true line bet. secs. 4 and 33.

9.98 Set temp. 1/64 sec. cor. on N. line NW/4 NE/4, sec. 4.

29.96 Set temp. 1/64 sec. cor. on N. line NE/4 NE/4, sec. 4.

39.95 Cor. for secs. 3, 4, 33 and 34, heretofore described.

BOUNDARIES OF CLAIM

Beginning at cor. No. 1 and C. C. on line bet. secs. 4 and 33.

Identical with point for 1/64 sec. cor. on N. line NE/4 NE/4, sec. 4. Deposit a granite stone 4 x 4 x 1 ins. marked with a +, 15 ins. in the ground, over which set a granite stone 25 x 14 x 12 ins., chiseled + for the point, 1 H E S 543 on NW. face and C. C. on N. face; and raise a mound of stone 3 ft. base, 2 ft. high N. of cor., Whence:

A hackberry, 4 ins. dia., bears S. 5° 15' W., 216 ins. dist.; scribed 1 H E S 543 C C

S 4 + B T.

A + on a granite boulder in place, 5 x 5 x 3 ft.

above, ground, bears N. 49° 05' W., chiseled

B R 1 H E S 543 C C S 33.

Cor. for secs. 3, 4, 33 and 34, heretofore described, bears East, 9.99 chs. dist.

1/4 cor. bet. secs. 4 and 33, heretofore described, bears West, 29.96, chs. dist.

Lat. 34° 32' 30" N., Long. 112° 07' 50" W., from Jerome Quadrangle of U. S. G. S. Mag. decl. at 9:00 a.m., 13° 50' E. Mean mag. decl., 15° 47' E.

Thence West.
<table>
<thead>
<tr>
<th>Chains</th>
<th>.On line bet. secs. 4 and 33, descending 6 ft. over bottom land, in open, to arroyo.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1.72 Arroyo, 5 lks. wide, banks 1 ft. high, course SE. Thence over bottom land to creek.</td>
</tr>
<tr>
<td></td>
<td>2.30 Enter alfalfa field.</td>
</tr>
<tr>
<td></td>
<td>3.43 Leave alfalfa field.</td>
</tr>
<tr>
<td></td>
<td>9.58 Ash Creek, running water 20 lks. wide, 6.1 ins. deep, banks 2 ft. high, course SE.</td>
</tr>
<tr>
<td></td>
<td>10.00 Right bank Ash Creek. Ascend 10 ft. to ditch.</td>
</tr>
<tr>
<td></td>
<td>10.80 Fence bears NW. and SE.</td>
</tr>
<tr>
<td></td>
<td>12.35 Fence bears N. and S.</td>
</tr>
<tr>
<td></td>
<td>14.50 Irrigation ditch, 3 ft. deep, 5 lks. wide, course SE.</td>
</tr>
<tr>
<td></td>
<td>Ascend 60 ft. in rocks and brush to cor.</td>
</tr>
<tr>
<td></td>
<td>15.60 Road bears NW. and SE.</td>
</tr>
<tr>
<td></td>
<td>19.98 To cor. No. 2 and C. C. on line bet. secs. 4 and 33.</td>
</tr>
<tr>
<td></td>
<td>Identical with point for 1/64 sec. cor. on N. line NW/4 NE/4, sec. 4. Deposit a granite stone 5 x 4 x 4 ins. marked with a +, 20 ins. in the ground, over which set a granite stone 30 x 10 x 9 ins., chiseled + for the point, 2 - H E S 543 on NE. face and C C on N. face; and raise a mound of stone 3 ft. base, 2 ft. high N. of cor., whence:</td>
</tr>
<tr>
<td></td>
<td>A + on a granite boulder 4 x 2 x 3 ft. above ground, bears N. 5°, 13' W., 22 lks. dist., chiseled B R S E S 543 C C S 33.</td>
</tr>
<tr>
<td></td>
<td>A + on a granite boulder 3 x 3 x 4 ft. above ground, bears S. 56° 20' E., 46 lks. dist., chiseled B R S E S 543 C C S 4.</td>
</tr>
<tr>
<td></td>
<td>Cor. for secs. 3, 4, 33, and 34, heretofore described, bears East, 29.97 chs. dist.</td>
</tr>
<tr>
<td></td>
<td>1/4 sec. cor. bet. secs. 4 and 33, heretofore described, bears West, 9.98 chs. dist.</td>
</tr>
</tbody>
</table>

June 1, 1917
HOMESTEAD ENTRY SURVEY NO. 543
FRIBOURG NATIONAL FOREST
STATE OF ARIZONA

Chains June 2, 1917:

Thence North.

Descend 45 ft. in brush to arroyo.

2.94 Road bears NW. and SE.

4.40 Arroyo, 40 lbs. wide, 5 ft. deep, course NE. Ascend 15 ft. along NE. slope.

6.50 Top ascent. Descend 10 ft. to cor. in brush.

10.00 To cor. No. 3.

Deposit a granite stone 4 x 4 x 3 ins. marked with a +, 14 ins. in the ground, over which set a granite stone 24 x 12 x 10 ins., chiseled + for the point and 3 - H BS 543 on SE. face; and raise a mound of stone 3 ft. base, 2 ft. high SE. of cor., whence:

A hackberry, 5 ins. dia., bears N. 60° 31' W., 85 lbs. dist., scribed 3 H BS 543 + B T.

A hackberry, 5 ins. dia., bears N. 86° 15' E., 189 lbs. dist., scribed 3 H BS 543 + B T.

Thence East.

0.17 Right bank Ash Creek, 4 ft. high.

0.74 Ash Creek, running water 16 lbs. wide, course SE.

1.40 Left bank Ash Creek, 5 ft. high. Ascend 35 ft. in brush to ridge.

1.45 Irrigation ditch, 3 ft. deep, 5 lbs. wide, course SE.

10.70 Top ridge bears NW. and SE. Descend 15 ft. in brush to arroyo.

12.35 Arroyo, 8 lbs. wide, banks 1 ft. high, course SE.

Ascend 40 ft. in brush to cor.

19.98 To cor. No. 4.

Deposit a granite stone 5 x 3 x 3 ins. marked with a +, 15 ins. in the ground, over which set a granite stone 28 x 13 x 10 ins., chiseled + for the point and 4 - H BS 543 on SW. face; and raise a mound of stone.
Chains
3 ft. base, 2 ft. high, SW. of cor., whence:
A + on a granite boulder in place, 3 x 2 x 1-1/2 ft. above ground, bears S. 87° 57' W., 21 lks. dist., scribed B R A H E S 543.
A + on a granite boulder 3 x 2 x 1-1/2 ft. above ground, bears S. 0° 21' E., 159 lks. dist., chiseled B R A H E S 543.

Thence S. 0° 03' W.
Descend 75 ft. in rocks and brush to cor.

5.65 Fence bears E. and W.

10.00 To cor. No. 1, the place of beginning.

AREA
Total Area --------------- 19.99 acres

IMPROVEMENTS
All the improvements made upon this claim and belonging to the claimant, are located on portion of the claim to be listed by legal subdivisions, joining this survey on the South. They consist of the following:
A stone and frame residence 26 x 16 ft., the long side of which bears NW. and SE. and the S. cor. of which bears S. 81° 27' E., 9.5Q chs. dist. from cor. No. 2.
Value ------------  $400.00

A frame barn and stable, 70 x 15 ft., the long side of which bears NW. and SE. and the South cor. of which bears S. 76° 14' E., 8.00 chs. dist. from cor. No. 2.
Value ------------  $500.00

A frame chicken house, 18 x 12 ft., the long side of which bears N. 15° E. and SW. cor. of which bears S. 77° 12' E., 10.25 chs. dist. from cor. No. 2.
Value ------------  $250.00
A frame wood shed, 10 x 10 ft., the sides of which bear N. 15° E. and the NE. cor. of which bears S. 78° 50' E.,
9.75 chs. dist. from cor. No. 2.
Value ------------------- $ 20.00

A stone shop, 12 x 12 ft., the sides of which bear N. 15° E., and the SE. cor. of which bears S. 80° E., 10.50
chs. dist. from cor. No. 2.
Value ------------------- $ 25.00

A stone house, 18 x 15 ft., the long side of which bears N. 15° E., and the NE. cor. of which bears S. 78° 50' E.,
9.40 chs. dist. from cor. No. 2.
Value ------------------- $ 75.00

There is approximately 1/2 mile of wire fence.
Value ------------------- $ 60.00

DESCRIPTION

This claim lies on Ash Creek at an elevation of 4700 ft., and consists of bottom land along the creek, rough rocky
hillsides on SW. and low brushy ridges on NW. The general slope is to the SE.
The soil in the bottom is a sandy loam of good depth and produces good crops. On the slopes, the soil is shal-
low, rocky and non-agricultural.

Water for irrigation and domestic use is obtained from Ash Creek.

There is no timber of commercial value on the claim.
The hillsides are covered with oak brush, and along the creek are sycamore, walnut, cottonwood and hackberry.
I saw no indications of mineral upon the claim, although it lies in a mineralized section.
There are approximately 2-1/2 acres in cultivation on the mesas and bounds portion of the entry.
TABLE AND CALCULATIONS OF HOMESTEAD ENTRY SURVEY NO. 543, 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>1-2</td>
<td>West</td>
<td>19.98</td>
<td></td>
<td>19.98</td>
<td>19.98</td>
<td>0.00</td>
<td></td>
</tr>
<tr>
<td>2-3</td>
<td>North</td>
<td>10.00</td>
<td>10.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td></td>
</tr>
<tr>
<td>3-4</td>
<td>East</td>
<td>19.98</td>
<td></td>
<td>19.98</td>
<td>19.99</td>
<td>0.00</td>
<td></td>
</tr>
<tr>
<td>4-1</td>
<td>S. 0° 03' W.</td>
<td>10.00</td>
<td>10.00</td>
<td>01</td>
<td>39.97</td>
<td>399.70</td>
<td>20/399.70</td>
</tr>
<tr>
<td></td>
<td></td>
<td>59.96</td>
<td>10.00</td>
<td>10.00</td>
<td>19.98</td>
<td>19.99</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>10.00</td>
<td>10.00</td>
<td></td>
<td></td>
<td>19.985 Acres</td>
</tr>
</tbody>
</table>

Directions:
1. Carry out calculations to two decimals only.
2. In balancing latitudes and departures do not obliterate or change the original figures. Put the corrected figures or figures above in red ink. Do not change the footing of the original figures, but put below them the corrected footing in red ink.
3. The corrections for balancingHillings should be proportional to the lengths of the lines.
4. In calculations of hillings take result to nearest link. In calculations of N. and S. areas drop all after second decimal. Surveyors are required to use the Standard Field Tables issued by the G. I. O.
5. Only three copies of this tabulation are necessary for the District Office, the Surveyor General, and the Commissioner.
<table>
<thead>
<tr>
<th>West</th>
<th>North</th>
</tr>
</thead>
<tbody>
<tr>
<td>19.96</td>
<td>17.98</td>
</tr>
<tr>
<td>19.98</td>
<td>17.98</td>
</tr>
<tr>
<td>19.98</td>
<td>17.98</td>
</tr>
</tbody>
</table>

Survey completed June 2, 1917

Claimant's Act No. 1,696

Defect in line and dep

State of Arizona

Republic National Forest

Homestead Entry Survey No. 642
APPROVAL

Office of the United States Surveyor General,
Phoenix, Arizona, June 28, 1918

The foregoing field notes of Homestead Entry Survey No. 543

executed by R. P. A. Johnson, Surveyor Draftsman
under his special instructions, dated May 12, 1917, 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.