U. S. DEPARTMENT OF AGRICULTURE
FOREST SERVICE

FIELD NOTES

OF
HOMESTEAD ENTRY SURVEY NO. 457

SITUATED IN THE CROOK NATIONAL FOREST

ADMINISTRATIVE DISTRICT NO. 3

In Section 3, surveyed, Township 2 S., Range 12 E.

of the Gila and Salt River Base and Meridian.

State of Arizona.

Applicant for listing Jose Lopez

Residence Superior, Arizona.

Application No. 233, dated June 12, 1915.

List No. 3-2707, dated August 4, 1913.

Applicant for survey Jose Lopez

Residence Superior, Arizona.

H. E. No. 024990, dated April 26, 1916.

Land Office Phoenix, Arizona.

Survey executed by Walter G. Turley, Surveyor-Forest Service

Under special instructions dated December 2, 1915.

Survey commenced February 11, 1916.

Survey completed February 12, 1916.

OATH OF ASSISTANTS

We hereby certify that we assisted Walter G. Turley Surveyor-Forest Service 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 the oath to assistants; hence it was taken by the Surveyor.

Subscribed and sworn to before me this 27th day of March, 1916.

OATH OF SURVEYOR

I, Walter G. Turley Surveyor-Forest Service do solemnly swear that, in strict conformity with the special instructions of the United States Surveyor General for Arizona, dated December 2, 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 List No. 3-2707, dated August 4, 1913, for Patent under the Act of June 11, 1906, the same to be known as Homestead Entry Survey No. 427 situated within the Crock National Forest, in survey Section Three, Township 2 South, Range 12 East, and of the Gila & Salt River Base and 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.

Subscribed and sworn to before me this 3rd day of April, 1916.
| Chains | Applicant for listing, Jose Lopez; Application No. 238, dated June 12, 1915; List No. 3-2707 dated August 4, 1915; Homestead Entry No. 024990 made in the Phoenix Land Office on April 28, 1914 by Jose Lopez.


Survey commenced February 11, 1916 and executed with a W. and L. E. Gurley light mountain transit No. 12953 provided with prism eye piece, stadia wires, vertical circle, and Burt solar attachment. The horizontal limb of the transit has two double verniers placed opposite to each other and graduated to single minutes of arc, which is also the graduation upon the verniers of the latitude and declination arcs.

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

All distances are horizontal and were reduced from measurements made directly on the slope with a 500 link steel tape graduated to links and tenths. The slope angles were determined with a clinometer, the vernier of which reads to degrees.

February 11, 1916.

I set up my transit over cor. H-4 of List 3-2707 which is a granite stone 12 x 6 x 5 ins. above ground marked and witnessed as described by the Forest Service; and with telescope direct, I observe Polaris in accordance
Chains with instructions at 7h. 15m. p.m. l.m.t., and mark the direction thus determined with a tack in a stake set firmly in the ground 5.00 chs. N. of my station in lat. 33° 16' 45" N., and long. 111° 06' 29" W. from special instructions from the Surveyor General.

Astron. l.m.t. obsn. Feb. 11, 1916, 7h. 15.0m.
Astron. l.m.t. U.C. Pol. Feb. 11, 1916, 4h. 06.4m.

Hour angle Pol. at obsn. 3h. 08.6m.
Azimuth of Pol. at obsn. 1° 00' 24" W.

With my transit set up over cor. H-4 of List 3-2707 heretofore described, and with telescope reversed in altitude and azimuth, at 7h. 24m. p.m. l.m.t. on the same date, I again observe Polaris in accordance with instructions, and mark the direction thus determined with a tack in a stake set firmly in the ground 5.00 chs. N. of my station.

Astron. l.m.t. obsn. Feb. 11, 1916, 7h. 24.0m.
Astron. l.m.t. U. C. Pol. Feb. 11, 1916, 4h. 06.4m.

Hour angle Pol. at obsn. 3h. 17.6m.
Azimuth of Pol. at obsn. 1° 02' 36" W.

February 12, 1916.

I turn off 1° 00' the azimuth of Polaris to the E. from its direction at Th. 15m. p.m. l.m.t. February 11, 1916 and mark the line thus determined with a tack in a stake set firmly in the ground 5.00 chs. N. of my station.

I also turn off 1° 02½ the azimuth of Polaris to the E. from its direction at Th. 24m. p.m. l.m.t. and mark the line thus determined with a tack in a stake set firmly in the ground 5.00 chs. N. of my station. This line falls 9° 00' 16" of measured arc to the W. of the line previously established.
I mark the mean of these two lines with a tack in a stake set firmly in the ground 5.00 chs. N. of my station; and from the corresponding meridian, all the courses stated in these field notes were deflected and referred by continuous sustained angulation.

Latitude 33° 16' 45" N. and longitude 111° 06' 29" W.
at cor. No. 1 of this survey by account from values given in the special instructions of the Surveyor General. It was not practicable to check the latitude by direct observation during the execution of this survey.

My watch is set for standard 105th meridian time from which I subtract 24m. 26s. for l.m.t.

Observed magnetic declination cor. No. 1 at 2h. OOm.
p.m. February 12, 1916 is 14° 40' E. Mean magnetic declination 14° 42' E.

Boundaries of Claim.

Beginning at cor. No. 1.

Identical with cor. H-4 of List 3-2707 which is a granite stone 12 x 6 x 5 ins. above ground marked and witnessed as described by the Forest Service.

I destroy cor. H-4 and its witnesses and for cor. No. 1 of this survey which will also be cor. No. 4 H. E. S. 438 I chisel cross on a stone 4 x 4 x 3 ins. and deposit it 15 ins. in the ground over which I set a quartzite stone 25 x 10 x 5 ins. 15 ins. in the ground chiseled cross at the point and 1 - H E S 437 on the E. face and 4 - H E S 438 on N. face and raise a mound of stone 2 ft. base, 1½ ft. high, E. of cor. from which
Chains

A 4 in. mesquite bears N. 28° 16' E., 85 lbs.
blazed and scribed 4 H E S 436 - 1 H E S 427
+ B T

A 6 in. mesquite bears N. 77° 06' E., 206 lbs.
blazed and scribed 4 H E S 436 - 1 H E S 427
+ B T

1/4 cor. to secs. 3 and 4 which is a tachite
stone 10 x 8 x 6 ins. above ground chiseled
1/4 on W. face with mound of stone alongside
W. of cor. bears N. 36° 57' W., 14.14 chs.
by direct measurement.

Thence N. 43° 09' E.

Over mesa in undergrowth.

0.06 Road bears E. and W.

1.64 Left bank Queen Creek 12 ft. high, course SW. 150 lbs.
wide.

4.50 Right bank Queen Creek 2 ft. high, course SW. Continue
over brushy bottom.

5.75 Fence bears W. and NE. along line.

5.77 Cor. H-4 of List No. 3-2202 which is a porphyry stone
12 x 12 x 10 ins. above ground marked and witnessed
as described by the Forest Service. Continue along
line H-4 to H-5 of List No. 3-2202

12.72 To cor. No. 2.

Identical with cor. H-3 of List 3-2707 and H-3 of
List 3-2202 which is a porphyry stone 6 x 6 x 5 ins.
above ground marked and witnessed as described by
the Forest Service. I destroy cor. H-3 and its
witnesses and for cor. No. 2 of this survey which
will also be cor. No. 3 of H. E. S. No. 433 I
chisel cross on a stone 4 x 4 x 3 ins. and de-
posit it 18 ins. in the ground over which I set
a basalt stone 29 x 12 x 5 ins. 18 ins. in the
ground, chiseled cross at the point and 2 - H E S
<table>
<thead>
<tr>
<th>Chains</th>
</tr>
</thead>
<tbody>
<tr>
<td>437 on the E. face and 3 - H E S 438 on the W. face and raise a mound of stone 2 ft. base, 1 1/2 ft. high, E. of cor. from which T A 5 in. hackberry bears S. 56° 55' E., 149 lks. T A 6 in. ash bears N. 87° 29' E., 190 lks. T A 4 in. mesquite bears S. 49° 40' W., 84 lks. T A 2 in. mesquite bears N. 44° 49' W., 49 lks. T A 3 in. mesquite bears S. 43° 40' W., 64 lks.</td>
</tr>
</tbody>
</table>

Thence N. 15° 27' W.

6.10 Cor. fence. Fence bears E. and along line SSE.
7.56 Cor. fence. Fence bears NE. SW. and along line SSE.
8.50 Superior-Florence wagon road bears NE. and SW. 84 lks.
8.85 To cor. No. 3.

Identical with cor. H-2 of List 3-2707 and H-2 of List 3-2202 and H-1 of List 3-3029 which is a porphyry stone 6 x 6 x 6 ins. above ground marked and witnessed as described by the Forest Service. I destroy cor. H-2 of List 3-2707 and its witnesses and for cor. No. 3 of this survey which will be cor. No. 2 of H. E. S. 438 and cor. No. 5 of H. E. S. 439. I chisel cross on a stone 4 x 3 x 2 ins. and deposit it 14 ins. in the ground over which I set a diorite stone 24 x 15 x 5 ins. 14 ins. in the ground chiseled cross at the point, 2 - H E S 438 on the SW. face, 5 - H E S 439 on the N. face, and 3 - H E S 437 on the E. face and raise a mound of stone 2 ft. base, 1 1/2 ft. high, E. of cor. from which...


<table>
<thead>
<tr>
<th>Chains</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>. . . 4 in. mesquite bears S. 52° 00' E., 62 lks.</td>
<td>Blazed and scribed 3 H E S 437 + B T</td>
</tr>
<tr>
<td>. . . 5 in. hackberry bears N. 24° 30' E., 194 lks.</td>
<td>Blazed and scribed 3 H E S 437 + B T</td>
</tr>
<tr>
<td>. . . 4 in. mesquite bears S. 50° 40' E., 63 lks.</td>
<td>Blazed and scribed 2 H E S 439 + B T</td>
</tr>
<tr>
<td>. . . 4 in. mesquite bears S. 29° 10' W., 220 lks.</td>
<td>Blazed and scribed 2 H E S 439 + B T</td>
</tr>
<tr>
<td>. . . 4 in. mesquite bears N. 46° 00' W., 223 lks.</td>
<td>Blazed and scribed 5 H E S 439 + B T</td>
</tr>
<tr>
<td>. . . 5 in. hackberry bears N. 20° 10' E., 190 lks.</td>
<td>Blazed and scribed 5 H E S 439 + B T</td>
</tr>
</tbody>
</table>

Thence N. 50° 27' E.
Asc. along lane 10 ft.

2.05 Florence—Superior wagon road bears E. and W.

4.98 Cor. No. 4 of H. E. S. 439 a basalt stone 14 x 6 x 10 ins. above ground marked cross at the point and 4—
m H E S 439 on W. face with mound of stone 2 ft. base,
1½ ft. high, W. of cor. from which
A 4 in. mesquite bears N. 74° 55' W., 147 lks.
Blazed and scribed 4 H E S 439 + B T
A 4 in. mesquite bears S. 56° 30' W., 220 lks.
Blazed and scribed 4 H E S 439 + B T

6.87 Superior—Florence wagon road bears N. and S.

10.17 To cor. No. 4.

Identical with cor. H-1 of List 2-2707 which is an embedded basalt stone 30 x 18 x 6 ins. above ground marked and witnessed as described by the Forest Service. I destroy cor. H-1 and its witnesses and at this point I previously established cor. No. 4 of H. E. S. 436 which is same stone chiseled cross at the point and 4—H E S 436 on E. face with mound of stone 2 ft. base, 1½ ft. high, E. of cor. I chisel
HOMESTEAD ENTRY SURVEY NO. 437
CROOK NATIONAL FOREST
STATE OF ARIZONA

Chains
4 - H E S 427 on S. face of same stone for cor. No. 4 of this survey, from which
+ on an embedded basalt stone 30 x 18 x 6 ins. above ground bears S. 54° 50' E., 31 lks.
chiseled + B R 4 H E S 427
A 10 in. cottonwood bears S. 4° 42' E., 177 lks.
brazed and scribed 4 H E S 427 - 4 H E S 436 + B T

A 6 in. mesquite bears S. 42° 15' E., 125 lks.
brazed and scribed 4 H E S 427 - 4 H E S 436 + B T

Thence S. 49° 02' E.
Along line 4-2 of H. E. S. 436. Desc. SE. slope 5 ft.
0.35 Cor. fence. Fences bear NE. SW. and S. 46° 02' E.
Continue along fence.
5.44 Cor. fence. Fences bear N. 46° 02' W., and NE. Enter brush.
5.70 Queen Creek 85 lks. wide, banks 2 ft. high, course SSW.
Continue over bottom.
11.50 Wire fence bears NE. and SW.
12.50 Leave bottom bears NE. and SW. Asc. NW. slope of mesa 15 ft.
13.86 To cor. No. 3 H. E. S. 436 which is a quartzite stone
12 x 5 x 10 ins. above ground chiseled cross at the point and 3 - H E S 436 on the N. face with mound of stone 2 ft. base, 1½ ft. high, N. of cor. from which
A 5 in. palo verde bears N. 64° 02' W. 29 lks.
brazed and scribed 3 H E S 436 + B T
+ on an embedded basalt stone 24 x 15 x 6 ins.
bears N. 75° 50' E. 24 lks. chiseled + B R
3 H E S 436
Continue over mesa.
<table>
<thead>
<tr>
<th>Chains</th>
<th>Leave mesa bears NE. and SW. Desc. SE. slope 15 ft.</th>
</tr>
</thead>
<tbody>
<tr>
<td>18.50</td>
<td>Ravine, course SW. Asc. NW. slope 15 ft.</td>
</tr>
<tr>
<td>19.35</td>
<td>Edge of mesa bears NE. and SW. Continue over mesa.</td>
</tr>
<tr>
<td>21.30</td>
<td>To cor. No. 5</td>
</tr>
<tr>
<td>27.49</td>
<td>Identical with cor. H-6 of List 3-2707 which is a</td>
</tr>
<tr>
<td></td>
<td>limestone 12 x 10 x 6 ins. above ground marked and</td>
</tr>
<tr>
<td></td>
<td>witnessed as described by the Forest Service. I</td>
</tr>
<tr>
<td></td>
<td>destroy cor. H-6 and its witnesses and for cor. No.</td>
</tr>
<tr>
<td></td>
<td>5 of this survey I chisel cross on a stone 4 x 3 x 2 ins.</td>
</tr>
<tr>
<td></td>
<td>and deposit it 18 ins. in the ground over which I</td>
</tr>
<tr>
<td></td>
<td>set a limestone 28 x 16 x 10 ins. 18 ins. in the</td>
</tr>
<tr>
<td></td>
<td>ground chiseled cross at the point, and 5 - H E S</td>
</tr>
<tr>
<td></td>
<td>437 on the W. face and raise a mound of stone 2 ft.</td>
</tr>
<tr>
<td></td>
<td>base, 1½ ft. high, W. of cor. from which</td>
</tr>
<tr>
<td></td>
<td>A 6 in. palo verde bears S. 10° 30' W., 14 lks.</td>
</tr>
<tr>
<td></td>
<td>blazed and scribed 5 H E S 437 + B T</td>
</tr>
<tr>
<td></td>
<td>+ on an embedded basalt stone 48 x 30 x 16 ins.</td>
</tr>
<tr>
<td></td>
<td>above ground bears N. 16° 00' W., 69 lks.</td>
</tr>
<tr>
<td></td>
<td>chiseled + B R 5 H E S 437</td>
</tr>
</tbody>
</table>

Thence S. 37° 56' W.

Desc. brushy mesa 5 ft.

17.20  | Road bears E. and W.                             |
| 20.50  | To cor. No. 6                                   |

Identical with cor. H-5 of List 3-2707 which is a quartzite stone 10 x 6 x 4 ins. above ground marked and witnessed as described by the Forest Service. I destroy cor. H-5 and its witnesses and for cor. No. 6 of this survey I chisel cross on a stone 4 x 3 x 2 ins. and deposit it 14 ins. in the ground over which I set a quartzite stone 24 x 12 x 6 ins. 14 ins. in the ground chiseled cross at the point, and 6 - H E S 427 on the N. face and raise a mound of stone 2 ft. base, 1½ ft. high N. of cor. from which
Chains

A 4 in. catclaw bears N. 72° 40' W., 179 lks.
blazed and scribed 6 H E S 427 + B T

A 5 in. mesquite bears S. 76° 20' E., 94 lks.
blazed and scribed 6 H E S 427 + B T

Thence N. 65° 00' W.
Desc. brushy mesa 5 ft.

To cor. No. 1 the place of beginning.

Area

Total .................................. 62.28 acres.

Improvements.

A frame dwelling 20 x 15 ft. the long side extending
NW. and SE. and the N. cor. of which bears S. 21° 30' W.
130 lks. from cor. No. 4 of this survey.
Estimated value .......................... $100.00

A well 4 x 4 x 15 ft. deep the center of which bears
S. 7° 30' E. 129 lks. from cor. No. 4 of this survey.
Estimated value .......................... $30.00

Approximately 1 ½ miles of fencing.
Approximately 1 ½ acres of cultivated land.

Description.

This claim is situated on Queen Creek a tributary to
the Gila River and is valuable for gardening.
The soil along the Creek bottom is a dark loam and pro-
duces the ordinary crops of the temperate zone. The
mesa appears to be of value only for grazing.

Sufficient water for all purposes flows in Queen Creek
or is obtained from the well.

Good crops of garden vegetables have been produced.
The mountains to the North are mineralized but no town-
sites, coal, oil or mining claims are known to con-
flict herewith.
Superior post office and railway station is 1 mile in a northeasterly direction.

This survey is joined on the Northeast by H. E. S. 436, on the West by H. E. S. 438 and on the Northwest by H. E. S. 439.

<table>
<thead>
<tr>
<th>Traverse</th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Cor.</td>
<td>Course</td>
<td>Dist.</td>
<td>N.</td>
<td>E.</td>
</tr>
<tr>
<td>1-2</td>
<td>N. 45° 09' E.</td>
<td>12.72</td>
<td>9.28</td>
<td>8.70</td>
</tr>
<tr>
<td>2-3</td>
<td>N. 15° 27' W.</td>
<td>8.83</td>
<td>8.51</td>
<td>2.25</td>
</tr>
<tr>
<td>2-4</td>
<td>N. 50° 27' E.</td>
<td>10.17</td>
<td>8.48</td>
<td>7.84</td>
</tr>
<tr>
<td>4-5</td>
<td>S. 46° 02' E.</td>
<td>27.49</td>
<td>18.38</td>
<td>20.44</td>
</tr>
<tr>
<td>5-6</td>
<td>S. 37° 56' W.</td>
<td>20.50</td>
<td>16.17</td>
<td>12.60</td>
</tr>
<tr>
<td>6-1</td>
<td>N. 56° 00' W.</td>
<td>24.32</td>
<td>10.28</td>
<td>22.04</td>
</tr>
<tr>
<td></td>
<td></td>
<td>104.03</td>
<td>34.55</td>
<td>34.55</td>
</tr>
</tbody>
</table>

Error in lat. and dep. 0.00

Closing error 1.10403

Survey completed February 12, 1916.
TABLED AND CALCULATIONS OF HOMESTEAD ENTRY SURVEY NO. 437, 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>N. 43° 09' W.</td>
<td>12.72</td>
<td>9.28</td>
<td>8.70</td>
<td>8.70</td>
<td>80 74'</td>
<td></td>
</tr>
<tr>
<td>3-4</td>
<td>N. 50° 27' E.</td>
<td>10.17</td>
<td>6.48</td>
<td>7.84</td>
<td>20.54</td>
<td>123 10'</td>
<td></td>
</tr>
<tr>
<td>4-5</td>
<td>S. 46° 02' E.</td>
<td>27.49</td>
<td>19.39</td>
<td>20 44'</td>
<td>46.83</td>
<td>897 50'</td>
<td></td>
</tr>
<tr>
<td>5-6</td>
<td>S. 27° 56' W.</td>
<td>20.50</td>
<td>16.17</td>
<td>18.60</td>
<td>55.68</td>
<td>916 52'</td>
<td></td>
</tr>
<tr>
<td>6-1</td>
<td>N. 65° 00' W.</td>
<td>24.32</td>
<td>10.28</td>
<td>22.04</td>
<td>226 57'</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>104.03</td>
<td>24.55</td>
<td>34.65</td>
<td>34 55'</td>
<td>568 49</td>
<td>1814 02</td>
</tr>
<tr>
<td>Closing</td>
<td></td>
<td></td>
<td>24 55'</td>
<td>34 55'</td>
<td>36 99</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Closing error 1: 10403

68 28' Acres.
APPROVAL

Office of the United States Surveyor General,

Phoenix, Arizona Jul 3 1917

The foregoing field notes of Homestead Entry Survey No.

executed by Walter H. Hurley, Surveyor
under his special instructions, dated Dec. 2, 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.

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U. S. DEPARTMENT OF AGRICULTURE
FOREST SERVICE

FIELD NOTES

OF

HOMESTEAD ENTRY SURVEY NO. 458

SITUATED IN THE CROOK NATIONAL FOREST

ADMINISTRATIVE DISTRICT NO. 3

In Section 3, surveyed, Township 2 S., Range 12 E.

of the Gila and Salt River Base and Meridian.

State of Arizona.

Applicant for listing Filomeno Ruiz,

Residence Superior, Arizona.

Application No. 221, dated September 14, 1912.

List No. 3-2202, dated January 3, 1913.

Applicant for survey Filomeno Ruiz,

Residence Superior, Arizona.

H. E. No. 023359, dated September 16, 1913.

Land Office at Phoenix, Arizona.

Survey executed by Walter G. Turley, Surveyor, Forest Service.

Under special instructions dated December 2, 1915.

Survey commenced February 14, 1916.

Survey completed February 14, 1916.

OATH OF ASSISTANTS

We hereby certify that we assisted Walter G. Turley, Surveyor, Forest Service, in surveying all those parts or portions of Homestead Entry Survey No. 436, 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 the oath to assistants; hence it was taken by the Surveyor.

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

[Signature]

OATH OF SURVEYOR

I, Walter G. Turley, Surveyor, Forest Service, do solemnly swear that, in strict conformity with the special instructions of the United States Surveyor General for Arizona, dated December 2, 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 List No. 5-2202 dated January 5, 1915 and a tract of land upon the application of Filomeno Ruiz.

Application, No. 221, dated September 14, 1912, for Patent, under the Act of June 11, 1906, the same to be known as Homestead Entry Survey No. 1436, situated within the Crook National Forest, in surveyed Section 3, Township 2 South, Range 12 East, of the Gila & Salt River Base and 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.

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

[Signature]

My Commission expires Apr. 11, 1918.
HOMESTEAD ENTRY SURVEY NO. 438

CROOK NATIONAL FOREST

STATE OF ARIZONA

Applicant for listing, Filomeno Ruiz; Application No. 221, dated September 14, 1912; List No. 2-2202, dated January 3, 1913; Homestead Entry 023359, made in the Phoenix Land Office on September 15, 1913 by Filomeno Ruiz, whose postoffice address is Superior, Arizona.

Also a tract of unlisted land adjoining claimant's entry on the southwest was included in this survey. The land is agricultural in character, was desired by the entryman, and will be listed as a basis for amendment of his entry 023359.


Survey commenced February 14, 1916 and executed with a No. W. and L. E. Gurley light mountain transit No. 12953 provided with prism eye piece, stadia wires, vertical circle, and Burt solar attachment. The horizontal limb of the transit has two double verniers placed opposite each other and graduated to single minutes of arc, which is also the graduation upon the verniers of the latitude and declination arcs.

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

All distances are horizontal and were reduced from measurements made directly on the slope with a 500 link steel tape graduated to links and tenths. The slope angles were determined with a clinometer, the vernier of which reads to degrees.
February 14, 1916.

I set up my transit over cor. H-1 of List 3-2202 which is a diorite stone 12 x 12 x 6 ins. above ground marked and witnessed as described by the Forest Service; and, with telescope direct, I observe Polaris in accordance with instructions at 6h. 56m. a.m. l.m.t. and mark the direction thus determined with a tack in a stake set firmly in the ground 5.00 chs. N. of my station, which in lat. 35° 16' 55" N. and long. 111° 06' 32" W. from special instructions from the Surveyor General.

Astron. l.m.t. obsn. on Feb. 13, 1916, 18h. 50.0m.

Astron. l.m.t. U.C.Pol. Feb. 13, 1916, 3h. 58.5m.

Hour angle Pol. at obsn. 14h. 51.5m.

Time argument hour angle and declination at 9h. 04.6m. Azimuth Pol. at obsn. 0° 55'.30" E.

With my transit set up over cor. H-1 of List 3-2202 heretofore described, and with telescope reversed in altitude and azimuth, at 7h. 02m. a.m. l.m.t. on the same date, I again observe Polaris in accordance with instructions, and mark the direction thus determined with a tack in a stake set firmly in the ground 5.00 chs. N. of my station.

Astron. l.m.t. obsn. on Feb. 13, 1916, 19h. 02.0m.

Astron. l.m.t. U.C.Pol. Feb. 13, 1916, 3h. 58.5m.

Hour angle Pol. at obsn. 0h. 15.9m.

Time argument hour angle and declination at 8h. 52.6m. Azimuth Pol. at obsn. 0° 56'.36" E.

February 14, 1916. I turn off 0° 55.5' the azimuth of Polaris, to the W. from its direction at 6h. 50m. a.m. l.m.t. February 14, 1916,
and mark the line thus determined with a tack in a stake set firmly in the ground 5.00 chs. N. of my station. I also turn off $0^\circ 56\frac{1}{2}'$ the azimuth of Polaris to the W. from its direction at 7h. 00m. a.m. l.m.t. and mark the line thus determined with a tack in a stake set firmly in the ground 5.00 chs. N. of my station. This line falls $0^\circ 00' 08''$ of measured arc to the W. of the line previously established.

I mark the mean of these two lines with a tack in a stake set firmly in the ground 5.00 chs. N. of my station, and from the corresponding meridian all the courses stated in these field notes were deflected and referred by continuous sustained angulation.

**Latitude:** $36^\circ 16' 55''$ N. and **Long.** $111^\circ 06' 37''$ W. at cor. No. 1 of this survey by account from values stated in the special instructions. It was not practicable to check the latitude by direct observation during the execution of this survey.

My watch is set for standard 105th meridian time from which I subtract 24m. 26s. for l.m.t.

**Observed magnetic declination** cor. No. 1 E. E. S. 438° February 14, 1916 at 7h. 00m. a.m. 14° 45' E. Mean magnetic declination 14° 45' E.

**Beginning at cor. No. 1.**

Identical with cor. N-1 of List 3-2202 which is a diorite stone 12 x 12 x 6 ins. above ground marked and witnessed as described by the Forest Service. I destroy cor. N-1 and its witnesses; and for cor. No. 1 of this survey which will also be cor. No. 1 E. E. S. 439 I chisel cross on s' stone 4' x 4' x 3 ins. and deposit
Chains

it 14 ins. in the ground over which I set a diorite stone 24 x 10, x 8 ins. 14 ins. in the ground; chiseled cross at the point, 1 - H E S 438 on the SE. face and 1 - H E S 439 on NE. face, and raise a mound of stone 2 ft. base, 1½ ft. high, SE. of cor., from which

A 4 in. mesquite bears S. 36° 15' E., 43 lks.
blazed and scribed 1 H E S 439 - 1 H E S 438 + B T

A 5 in. mesquite bears N. 15° 10' E., 164 lks.
blazed and scribed 1 H E S 439 - 1 H E S 438 + B T

1/4 cor. to sec. 3 and 4 which is a trachite stone 8 x 6 x 6 ins. above ground chiseled ½ on W. face with mound of stone 2 ft. base, 1½ ft. high, W. of cor. bears N. 85° 28' W., 2.04 chs. by direct measurement.

Thence N. 62° 15' E.
Asc. bottom 5 ft.

5.92 Cor. H-5 of List 3-3028 which is a granite stone 8 x 8 x 6 ins. above ground marked and witnessed as described by the Forest Service.

10.70 Florence-Superior wagon road bears E. and W.

14.92 To cor. No. 2, also cor. No. 3 of H. E. S. 437 and cor. No. 5 of H. E. S. 459
Identical with cor. H-2 of List 3-2202 and cor. H-1 of List 3-3028 which is a porphyry stone 6 x 6 x 5 ins. above ground marked and witnessed as described by the Forest Service. I destroy cor. H-2 and its witnesses. At this point I previously established cor. No. 3 of H. E. S. 437 which is a diorite stone 10 x 5 x 10 ins. above ground chiseled cross on top for exact point, 3 H E S 437 on E. face, 2 H E S 438 on SW. face, and 5 H E S 429 on NW. face with mound of stone 2 ft. base, 1½ ft. high, E. of cor. whence
<table>
<thead>
<tr>
<th>Chains</th>
</tr>
</thead>
<tbody>
<tr>
<td>A 4 in. mesquite bears S. 55° 00' E. 62 lks. blazed and scribed 3 H E S 437 + B T</td>
</tr>
<tr>
<td>A 5 in. hackberry bears N. 24° 30' E. 194 lks. blazed and scribed 3 H E S 437 + B T</td>
</tr>
<tr>
<td>A 4 in. mesquite bears S. 50° 40' E. 63 lks. blazed and scribed 2 H E S 438 + B T</td>
</tr>
<tr>
<td>A 4 in. mesquite bears S. 23° 10' W. 22 lks. blazed and scribed 2 H E S 438 + B T</td>
</tr>
<tr>
<td>A 4 in. mesquite bears N. 45° 00' W. 223 lks. blazed and scribed 5 H E S 439 + B T</td>
</tr>
<tr>
<td>A 5 in. hackberry bears N. 20° 10' E. 100 lks. blazed and scribed 5 H E S 439 + B T</td>
</tr>
</tbody>
</table>

Thence S. 15° 27' E.

0.33 Superior-Florence wagon road bears NE. and SW.
1.27 Cor. fence. Fences bear NE. SW. and SSE. along line.
2.73 Cor. fence. Fence bears E. and along line.
8.93 To cor. No. 3. also cor. No. 2 of H. E. S. 437.

Identical with cor. H-3 of List 8-2302 which is a dacite stone 6 x 6 x 15 ins. above ground marked and witnessed as described by the Forest Service.
I destroy cor. H-3 and its witnesses. At this point I previously established Cor. No. 2 of H. E. S. 437 which is a basalt stone 12 x 5 x 10 ins. above ground chiseled cross at the point and 2 H E S 437 on E. face with mound of stone 2 ft. base, 1 1/2 ft. high, E. of cor. I chisel same stone 3 - H E S 438 on W. face for cor. No. 3 of this survey whence

A 5 in. hackberry bears S. 56° 55' E. 149 lks. blazed and scribed 2 H E S 437 + B T
A 6 in. ash'bear N. 87° 20' E. 190 lks. blazed and scribed 2 H E S 437 + B T
HOMESTEAD ENTRY SURVEY NO. 438
CROOK NATIONAL FOREST
STATE OF ARIZONA

Chains
A 4 in. mesquite bears S. 49° 40' W. 84 lks.
blazed and scribed 3 H E S 438 + B T
A 3 in. mesquite bears N. 44° 45' W. 49 lks.
blazed and scribed 3 H E S 438 + B T

Thence S. 43° 09' W.

Over bottom in undergrowth.

6.96 Cor. H-4 of List 3-2202 which is a porphyry stone
12 x 12 x 10 ins. above ground marked and witnessed
as described by the Forest Service. I destroy cor.
H-4 and its witnesses. Leave List No. 3-2202.
Enter unlisted land.

6.97 Cor. Fence. Fence bears NE. along line, and West.

8.22 Right bank Queen Creek, 2 ft. high, course SW. 150 lks.
wide.

10.88 Left bank Queen Creek, 12 ft. high, course SW.

12.64 Road bears E. and W.

12.72 To cor. No. 4.
Identical with cor. No. 1 H. E. S. No. 437 which is
a quartzite stone, 10 x 5 x 10 ins. above ground
chiseled cross at the point and 1 - H E S 437 on
E. face with mound of stone 2 ft. base, 1½ ft. high
E. of cor. I chisel same stone 4 - H E S 438 on
E. face from which

A 4 in. mesquite bears N. 28° 15' E. 185 lks.
blazed and scribed 4 H E S 438 - 1 H E S 437 + B T
A 6 in. mesquite bears N. 71° 05' E., 208 lks.
blazed and scribed 4 H E S 438 - 1 H E S 437 + B T

Thence N. 54° 04' W.

Desc. brushy NW. slope 5 ft.

0.20 Road bears E. and W.

2.10 Left bank Queen Creek 12 ft. high, course W. Creek bed
120 lks. wide.

4.25 Right bank Queen Creek 2 ft. high, course W. Continue
Homestead Entry Survey No. 428
Crook National Forest
State of Arizona

Chains

6.90 To cor. No. 5.

Identical with cor. H-5 of List 3-2202 which is a dacite stone 6 x 6 x 4 ins. above ground marked and witnessed as described by the Forest Service. I destroy cor. H-5 and its witnesses; and for cor. No. 5 of this survey I chisel cross on a stone 4 x 4 x 4 ins. and deposit it 14 ins. in the ground over which I set a diorite stone 24 x 14 x 6 ins. 14 ins. in the ground chiseled cross at the point and 5 - H E S 436 on the NE. face and raise a mound of stone 2 ft. base, 1 ft. high, NE. of cor. from which

A 15 in. sycamore bears N. 17° 40' E. 5 lks.
blazed and scribed 5 H E S 436 + B T

A 10 ins. sycamore bears N. 68° 14' W. 123 lks.
blazed and scribed 5 H E S 436 + B T

At this point pass from unlisted to listed land.

Thence N. 10° 34' W.

Over open bottom. Fence 3 lks. to right and parallel to line.

6.91 To cor. No. 1 the place of beginning.

Area:

Listed area........................... 14.01 acres
Unlisted area........................... 1.97 acres

Total area........................... 16.98 acres.

Improvements:

A frame dwelling 18 x 18 ft. the long side extending E. and W. and the NE. cor. of which bears S. 24° 10' W.
3.78 chs. from cor. No. 2 of this survey.

Value.............................. $150.00

A well 4 x 4 x 14 ft. deep the center of which bears
Homestead Entry Survey No. 429

Tonto Creek National Forest

State of Arizona

Chains

S. 30° 28' W. 3.76 chs. from cor. No. 2 of this survey.

Value.................................................. $ 50.00

A well 4 x 4 x 16 ft. deep the center of which bears
S. 31° 26' W. 2.42 chs. from cor. No. 2 of this survey.

Value.................................................. $ 25.00

Approximately 8 mile of wire fencing.

Value.................................................. $ 50.00

Approximately 8 acres of cultivated land.

Description.

This claim is situated on Queen Creek, a tributary to the Gila River, and is valuable for gardening.

The soil is a sandy loam and produces the ordinary crops of the temperate zone. Good garden vegetables and grain hay have been produced.

Sufficient water for all purposes flows in Queen Creek or is obtained from the wells.

The mountains to the north are mineralized but no townsites, coal, oil, or mining claims are known to conflict herewith.

Superior postoffice and railway station is 1 mile in a northeasterly direction.

This survey is joined on the north by H. E. S. No. 429 and on the East by H. E. S. 427.

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>
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</thead>
<tbody>
<tr>
<td>2-3</td>
<td>S. 15° 27' E. 5.62</td>
<td>8.51</td>
<td>2.35</td>
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<tr>
<td>3-4</td>
<td>S. 42° 09' W. 12.72</td>
<td>9.28</td>
<td>5.78</td>
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<tr>
<td>4-5</td>
<td>N. 54° 04' W. 6.90</td>
<td>4.05</td>
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<tr>
<td>5-1</td>
<td>N. 10° 24' W. 6.21</td>
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Error in lat. and dep. 1.50.

Closing error 1.50.

Survey completed February 14, 1916.

Surveyor: Forest Service.
TABLE AND CALCULATIONS OF HOMESTEAD ENTRY SURVEY NO. 438, 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>
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<tbody>
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<td></td>
<td></td>
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<td>NORTH</td>
<td>SOUTH</td>
<td>EAST</td>
<td>WEST</td>
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<tr>
<td>1-2</td>
<td>N. 62° 15' E.</td>
<td>14.92</td>
<td>6 96</td>
<td>13 20</td>
<td>13 21</td>
<td>91 61</td>
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</tr>
<tr>
<td>2-3</td>
<td>S. 65° 27' E.</td>
<td>6.83</td>
<td>8 51</td>
<td>2 35</td>
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<td>244 63</td>
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<tr>
<td>3-4</td>
<td>S. 43° 09' E.</td>
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<td>9 26</td>
<td></td>
<td>6 70</td>
<td>22 42</td>
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<td>4-5</td>
<td>N. 54° 04' W.</td>
<td>6.90</td>
<td>4 05</td>
<td>5 59</td>
<td>6 13</td>
<td>22 93</td>
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<tr>
<td>5-1</td>
<td>N. 10° 54' W.</td>
<td>6.91</td>
<td>6 72</td>
<td>1 27</td>
<td>1 27</td>
<td>8 62</td>
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<td>58.88</td>
<td>17 79</td>
<td>17 79</td>
<td>15 56</td>
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</tbody>
</table>

Total: 169.56 Acres.
APPROVAL

Office of the United States Surveyor General,

Phoenix, Arizona JUL 3 1917

The foregoing field notes of Homestead Entry Survey No. 438

executed by Walter W. Turley, Surveyor

under his special instructions, dated Dec. 2, 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.