FIELD NOTES
OF
HOMESTEAD ENTRY SURVEY NO. 162
SITUATED IN THE
CROOK NATIONAL FOREST
ADMINISTRATIVE DISTRICT NO. 3
in
Section 1, unsurveyed, Township 1 S., Range 15 E.
Section 8, unsurveyed, Township 1 S., Range 15 E.

of the
Gila and Salt River Base and Meridian.
ARIZONA

Survey executed by Walter G. Turley, Forest Service Surveyor
Under special instructions dated January 17, 1914.
Survey commenced February 14, 1914.
Survey completed February 14, 1914.

Applicant for listing M. B. Morse
Residence Globe, Arizona.
Application No. 136, dated February 19, 1910
List No. 3-496, dated April 23, 1910.
Applicant for survey George W. Graham
Residence Globe, Arizona.
H. E. No. 020295, dated January 31, 1913.
Land district Phoenix, Arizona.
OATH OF ASSISTANTS

We hereby certify that we assisted Walter G. Turley, Forest Service Surveyor, in surveying all those parts or portions of Homestead Entry Survey No. 162 in the Surveyed Section 1, Township 1 S., Range 15 E., and the Surveyed Section 2, Township 1 S., Range 15 E., of the G. & S. R. B. & meridian, 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.

Chairman

Subscribed and sworn to before me this 21st day of February, 1914.

Walter G. Scott, Notary Public

My Commission expires [illegible]

OATH OF SURVEYOR

I, Walter G. Turley, Forest Service Surveyor, do solemnly swear that, in strict conformity with the special instructions of the United States Surveyor General for Arizona, dated January 17, 1914, and the laws of the United States, I have well, faithfully, and truly, in my own proper person, surveyed a tract of land, the acquisition of which is embraced in Patent No. 3-498, dated April 23, 1910, for

the same to be known as Homestead Entry Survey No. 162, situated within the CROOK National Forest, in the Surveyed Section 1, Township 1 S., Range 15 E., and the Surveyed Section 2, Township 1 S., Range 15 E., of the G. & S. R. B. & 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 21st day of February, 1914.

Walter G. Scott, Notary Public
HOMESTEAD ENTRY SURVEY NO. 162

TUCSON NATIONAL FOREST

ARIZONA

Chains Applicant for listing, M. B. Morse; Application No. 126, dated February 19, 1910; List No. 3-490, dated April 23, 1910; H. E. No. 020295 made at Phoenix, Arizona, by George W. Graham, dated January 31, 1913.

Surveyed under special instructions from the Surveyor General for Arizona dated January 17, 1914, and designated as Homestead Entry Survey No. 162.

Situated in what will probably be, when surveyed, Section 14, T. 21 S., R. 15 E., G. and S. R. B., and Meridian of 103° 45' W. of the 2d principal meridian, Southwest corner the Crock National Forest, Arizona.

Listed under the Act of June 11, 1906; and survey authorized by the Acts of June 11, 1906 and March 4, 1913.

Survey commenced February 14, 1914, and executed with a W. and L. E. Garley light mountain transit No. 18963, with vertical circle and part solar attachment; the horizontal limb having two double verniers placed opposite and reading to single minutes of arc, which is also the least graduation on the verniers of the latitude and declination arcs.

The instrument was tested and all necessary adjustments made to the levels, line of collimation, solar attachment; and the stadia interval was adjusted to read 1.132 feet on 100 and 3 x 3 x 1.00 on other strengths.

All measurements were made on the slope, and reduced to the horizontal, with a 400 link steel tape and a Philadelphia stadia rod graduated to feet and hundredths with target verniers reading to thousandths.

Survey commenced February 14, 1914; at 8 h. 00 m. a.m., I set off 13° 07' S. on the decl. arc and 33° 22' on the lat. arc and determine a meridian with the solar at cor. No. 3 of H. E. S. No.
Chains 102, which is a granite boulder 10 x 10 x 10 ins. above ground, marked and witnessed as described by me in the field notes thereof, and my line of sight falls upon the stake in the stake set 4.00 ohs. North of my station, which marks the meridian as determined by Polaris observations of December 14th and 16th, 1915. Therefore, I conclude that my transit is in satisfactory adjustment. Lat. 33° 22' N., Long. 110° 43' 50" W.

Preliminary to the survey of this claim, I retrace the boundaries of List 3-498 and calculate its area to be less than 160 acres. I also retrace line 1-8 of H. E. S. 102.

February 14, 1914:

At 8 h. 30 m. a.m., l.m.t., I set off 13° 07' S. on the decl. arc and 33° 23' on the lat. arc and determine a meridian with the solar at the S.C. Secs. 36 and 34 T. 1 N.; Rs. 15 and 15-1/2 E.; which is a granite rock 10 x 6 x 8 ins. above ground, marked and witnessed as described by the Surveyor General.

Hence S. 36° 47' E. on a tie line.

29.42 Cor. No. 1 of this survey, if described as above is identical with cor. H-1 of the list survey, which is a quartzite stone 10 x 5 x 8 ins. above ground, marked and witnessed as described by the Forest Service. I destroy all trace of this list cor. and mark 1-HE3162 on the SE. face of the same stone for cor. No. 1 of this survey, which is also marked +6-HE374 for cor. No. 6 of H. E. S. No. 74. I re-establish the mound of stone 2 ft. base, 1-1/2 ft. high NE. of cor. from which:

Off no. 270 A hackberry 4 ins. dia., bears S. 26° 10' E.

87 lbs. dist. marked 1 H E S 162 B-T 15.

24 ins. dia. bears N. 75° 52' E.
Chains

261 lks. dist. marked + B THE S 74 1 H E S 162.

Therefore the S'. S. Secs. 36' and 34 T. 1 M., Rs. 15 and
16-1/2 E. bears N. 36° 47' W. 29.42 chs., dist. from cor.
No. 1 of this survey.

At 9 H. 00 m. A.M., L.M.T., I observe the magnetic declina-
tion at cor. No. 1 of this survey to be 14° 30' E.
which reduced by Table G, Manual of 1894, Diurnal Varia-
tion in Magnetic Declination, gives a mean magnetic
declination of 14° 28' E.

Lang. 116° 54' W., as obtained from Special Instructions
from Surveyor General.

Thence W. 87° 49' E.

Along line 6-5 of approved H. E. S. No. 74, C. H. Thayer.

Descend 5 ft. to cor.

0.60

Arroyo, 20 lks. wide, banks 2 ft. high, course NE.

0.76

Fence, bears N. and S.

1.50

Road, bears N. and S.

3.18

Cor. No. 2.

Identical with cor. No. 4 of H. E. S. No. 159, which is
a quartzite stone 12 x 9 x 10 ins. above ground, marked
4-HES159 on SE. face, with round of stone 2 ft. base,
1-1/2 ft. high SE. of cor. I mark 2-HES162 on the SW.
face of same stone, from which:

A sycamore 20 ins. dia. bears S. 3° 30' W. 140

lks. dist. marked 4 H E S 159 2 H E S 162 B T

A sycamore 20 ins. dia. bears S. 79° 30' E. 156

lks. dist. marked 4 H E S 159 2 H E S 162 B T.

Thence S. 17° 05' E.

Along line 4-3 of H. E. S. No. 159. Ascend 5 ft. to cor.

4.00

Left bank of Pinal Creek, 1 ft. high, course N.; Continue
in dry creek bed.

5.10

Ranch road, bears NW. and SE.
Chains

10.45 Left bank Pinal Creek, 2 ft. high, course NW.

10.59 Cor. No. 3.

Identical with cor. No. 3 of H. E. S. No. 159, which is a 60 penny wire nail driven into the NE. side of a sycamore tree 30 ins. in dia., blazed and marked 3-HES159 immediately under nail, with mound of stone 2 ft. base, 1-1/2 ft. high NW. of cor. I mark 3-HES159 in a blaze to the NW. of the nail upon the sycamore tree for cor. No. 3 of this survey, from which:

A sycamore 24 ins. dia. bears S. 8° 00' W.

127 lbs. dist. marked 3 H E S 159 3 H E S 162 E T

A hackberry 6 ins. dia. bears N. 45° 45' E. 117 lbs.

dist. marked 3 H E S 159 3 H E S 162 E T.

Thence S. 55° 34' E.

Along line 3-2 of H. E. S. No. 159.

0.08 Left bank Pinal Creek, bank 2 ft. high, course NW. Continue in dry bed of Pinal Creek.

3.38 Cor. No. 4.

Identical with cor. No. 8 of H. E. S. No. 159, which is an iron bolt 1 in. in dia. driven into the ground.

This cor. is witnessed by a witness cor. which I previously set 1.25 obs. N. 5° 43' W. of the true point, which is a quartzite stone 14 x 7 x 10 ins. above ground marked 2-HES159 on NW. face, with mound of stone NW. of cor. from which:

A hackberry 4 ins. dia. bears S. 89° W. 13 lbs.

dist. marked 2 H E S 159 W.C.B.T

A hackberry 6 ins. dia. bears S. 22° W. 14 lbs.

dist marked 2 H E S 159 W.C.B.T.

I also witness this point by a W.C. set 80 lbs. S. 5° 43' E. from the true point.
Note: It was impracticable to set a witness cor. within
3 chs., on line 3-4 or projection thereof, on account of
falling in Fimal Creek.

Thence S. 5° 43' E.
Along line 4-3 of the list survey in dry bed of Fimal
Creek. Ascend 5 ft. to cor.
0.70 Left bank of Fimal Creek, 3 ft. high, course NW.
0.80 Set a quartzite stone 2 x 14 x 8 ins. 14 ins. in the
ground over small stone marked with a cross (+) for a
W.C. to cor. No. 4 of this survey, marked WC-4-HE8162
on the SW. face; and raise a mound of stone 2 ft. base,
1-1/2 ft. high SW. of cor. from which:
A mesquite 5 ins. dia. bears N. 32° 25' W. 23 kms.
dist. marked 4 H E S 162 W C B T.
A sycamore 14 ins. dia. bears N. 28° 50' W. 190
1 kms. dist. marked 4 H E S 162 W C B T.
1.30 Road bears NW. and SE.
1.60 Fence, bears NW. and SE. Enter pasture.
1.90 Fence, bears E. and W. Continue in pasture.
2.48 Cor. H-3 of the list survey, which is a quartzite stone
8 x 5 x 8 ins. above ground, marked and witnessed as
described by the Forest Service. I destroy all trace
of this list cor.
2.53 Cor. No. 5 of this survey, at which point I intersect the
line 1-2 of H. E. S. No. 102, at a point 8.97 chs. S.
78° 56' E. from cor. No. 1 and ll.90 chs. N. 78° 56' W.
from cor. No. 2. At which point I set a schist stone
24 x 14 x 6 ins. 14 ins. in the ground over a small
stone marked with a cross (+) for cor. No. 5 of this
survey, marked 5-HE8162 on the NW. face; and raise a
mound of stone 2 ft. base, 1-1/2 ft. high NW. of cor.
from which:
Chains: A mesquite 4 ins. dia. bears N. 69° 30' W. 61 lks. dist. marked 5 H E S 162 B T
A cross (+) on an imbedded schist stone 28 x 12 x 12 ins. above ground, bears S. 54° 40' W. 16 lks. dist. marked 5 H E S 162 B T.

Thence N. 73° 56' W.
Along line 2-1 of H. E. S. No. 102. Ascend 50 ft. to spur.
1.61 Fence, bears E. and W.
5.47 Ranch road, bears N. and S.
7.06 Enter adobe residence of George W. Graham at a point 4 ft. SW. of E. cor. and 29 ft. NE. of S. cor.
7.59 Leave house at a point 1/2 ft. SE. of W. cor. and 35.5 ft. NW. of S. cor.
7.97 Spur bears N. and S. Descend 5 ft. to cor.
8.95 Fence, bears NE. and SW.
8.97 Cor. No. 6.

Identical with cor. H-2 of the 1st survey, also cor. H-2 of H. E. No. 023582, T. J. Gibson, which is a red sandstone 6 x 4 x 6 ins. above ground, marked and witnessed as described by the Forest Service. I destroy all trace of the 1st cor. which refers to this claim.

At this point I previously set cor. H. E. S. No. 102, which is a quartzite boulder 9 x 8 x 10 ins. above ground, marked 1-HES102 on the SE. face, with mound of stone 2 ft. base, 1-1/2 ft. high 3E. of cor. from which:
A cross (+) on an imbedded quartzite boulder 60 x 48 x 15 ins. above ground bears S. 69° W.
114 lks. dist. marked 1 H E S 102 6 H E S 162 B.

No other bearings available. Fits impracticable.
**HOMESTEAD ENTRY SURVEY No. 162**

**CROOK NATIONAL FOREST**

**ARIZONA**

<table>
<thead>
<tr>
<th>Chains</th>
</tr>
</thead>
<tbody>
<tr>
<td>I mark 6-HE8162 on the NE. face of the same stone for cor. No. 6 of this survey.</td>
</tr>
<tr>
<td>Thence N. 20° 30' W. then set a post as evidence.</td>
</tr>
<tr>
<td>Along line 2-1 of H.E. No. 023562, T. J. Gibson. Descend 25 ft. to ravine.</td>
</tr>
<tr>
<td>2.65 Ravine, course NE. Ascend SE. slope 25 ft. angle 40°.</td>
</tr>
<tr>
<td>4.00 Top of mesa, bears NE. and SW. Continue over mesa.</td>
</tr>
<tr>
<td>8.15 Descend NW. slope 25 ft. to cor.</td>
</tr>
<tr>
<td>11.95 Arroyo 20 lks. wide, banks 2 ft. high, course NE.</td>
</tr>
<tr>
<td>12.70 Cor. No. 1 of this survey, the place of beginning.</td>
</tr>
</tbody>
</table>

**Note:** The sun was obscured at noon, therefore a latitude observation was not possible.

*February 14, 1914.*

---

**Area of Homestead Entry Survey No. 162.**

<table>
<thead>
<tr>
<th>Total Area</th>
<th>7.35 acres</th>
</tr>
</thead>
</table>

**Improvements.**

The improvements made upon and for the benefit of this homestead and belonging to George W. Graham, the claimant herein, consist of the following:

- A well 4 x 4 x 28 ft. deep, the center of which bears S. 53° 15' W. 2.44 chs. dist. from cor. No. 3 of this survey. Value $100.00

- An adobe dwelling, 33 x 36 ft., the long side of which bears NW. and SE. and the W. cor. of which bears S. 79° 30' E. 138 lks. dist. from cor. No. 6 of this survey. Value $500.00

There is also about 1 acre of land cleared.
General Description:

This claim is situated on Final Creek at an elevation of approximately 3,600 feet and is chiefly valuable for intensive farming. The soil is a sandy loam and produces many crops raised in the temperate zone. I saw no trace of mineral upon this claim. It is three miles north of Globe postoffice and Arizona Eastern Railway Station.

Conflicts and Adjoining Claims:

This Homestead Entry is joined on the N. by approved CT of H. E. S. No. 74, C. H. Traver; on the W. by H. E. No. 1023662, T. J. Gibson; on the S. by H. E. S. No. 102, A. F. Williams; and on the E. by H. E. S. No. 159, A. B. Tocco.

Latitudes, Departures and Closing Errors:

<table>
<thead>
<tr>
<th>Bearing</th>
<th>301 Distance N</th>
<th>Latitude</th>
<th>Departure W</th>
</tr>
</thead>
<tbody>
<tr>
<td>W. 89° 49' E.</td>
<td>3.18</td>
<td>0.12</td>
<td>3.18</td>
</tr>
<tr>
<td>S. 17° 05' E.</td>
<td>10.55</td>
<td>10.08</td>
<td>3.10</td>
</tr>
<tr>
<td>S. 55° 34' E.</td>
<td>3.38</td>
<td>1.91</td>
<td>2.79</td>
</tr>
<tr>
<td>N. 70° 56' W.</td>
<td>6.97</td>
<td>1.72</td>
<td>8.80</td>
</tr>
<tr>
<td>E. 20° 30' W.</td>
<td>12.70</td>
<td>13.69</td>
<td>0.55</td>
</tr>
</tbody>
</table>

41.61 14.53 14.51 9.32 9.35

14.51 9.32

0.02

Closing Error 1.1146

Matthew F. Turley

Forest Service Surveyor
TABLEING AND CALCULATIONS OF HOMESTEAD ENTRY SURVEY NO. 168. STATE OF

<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>N. 87° 49' E.</td>
<td>3.18</td>
<td>12</td>
<td>3.18</td>
<td>3.18</td>
<td>3.18</td>
<td>38</td>
<td></td>
</tr>
<tr>
<td>S. 17° 06' E.</td>
<td>10.55</td>
<td>10.06</td>
<td>3.10</td>
<td>9.47</td>
<td>9.47</td>
<td></td>
<td></td>
</tr>
<tr>
<td>S. 5° 34' E.</td>
<td>3.38</td>
<td>1.91</td>
<td>2.79</td>
<td>15.37</td>
<td>15.37</td>
<td></td>
<td></td>
</tr>
<tr>
<td>S. 5° 43' E.</td>
<td>2.55</td>
<td>2.52</td>
<td>25</td>
<td>18.41</td>
<td>18.41</td>
<td></td>
<td></td>
</tr>
<tr>
<td>E. 78° 56' W.</td>
<td>8.97</td>
<td>1.72</td>
<td>8.80</td>
<td>9.87</td>
<td>9.87</td>
<td>16.98</td>
<td></td>
</tr>
<tr>
<td>N. 8° 20' W.</td>
<td>12.70</td>
<td>12.69</td>
<td>55</td>
<td>54</td>
<td>54</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Closing Error, 1:1146.

73.54 = 7.35 Acres.
APPROVAL

Office of the United States Surveyor General,
Phoenix, Arizona,
December 11, 1914.

The foregoing field notes of Homestead Entry Survey No. 162

George W. Graham,

executed by Walter G. Turley, Forest Service Surveyor,
under his special instructions, dated January 17, 1914, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Frank B. Ingalls,
U. S. Surveyor General.

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

Frank B. Ingalls,
U. S. Surveyor General.