

U. S. DEPARTMENT OF AGRICULTURE
FOREST SERVICE

SEP. 19 1914
DEC. 19 1914

FIELD NOTES

OF

HOMESTEAD ENTRY SURVEY NO. 111

SITUATED IN THE

CROOK NATIONAL FOREST

ADMINISTRATIVE DISTRICT NO. 3

in

Section 15, unsurveyed, Township 1 S., Range 15 E.

Section 22, 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 October 30, 1913

Survey commenced January 6, 1914

Survey completed January 6, 1914

Under Acts of June 11, 1906 and March 4, 1913.

Applicant for listing F. L. Scroggins.

Residence Globe, Arizona.

Application No. 123, dated September 13, 1909

List No. 3-1029, dated January 14, 1911

Applicant for survey Alva C. Belcher

Residence Globe, Arizona.

H. E. No. 017126, dated April 4, 1912.

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. 111, in
unsurveyed Section 15, Township 1 S., Range 15 E.,
unsurveyed Section 22, 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 sur-
vey 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 fur-
nished by the United States Surveyor General for Arizona.

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

Benjamin T. Hebores, Chainman
Joseph H. Woolsey, Chainman

Subscribed and sworn to before me this 2nd day of
February, 1914.

Walter G. Turley
Forest Service Surveyor

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
October 30, 1913, and the laws of the United States, I have
well, faithfully, and truly, in my own proper person, sur-
veyed a tract of land ~~upon the application of~~ embraced in
LIST, No 3-1029, dated January 14, 1911, for
PATENT, under the Act of June 11, 1906,
the same to be known as Homestead Entry Survey No. 111,
situated within the CROOK National Forest, in
unsurveyed Section 15, Township 1 S., Range 15 E., and
unsurveyed Section 22, 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 perpet-
uated in strict accordance with the stated special instruc-
tions, and in the specific manner described in the field
notes, and that the following are the original field notes
of such survey.

Walter G. Turley
Forest Service Surveyor

Subscribed and sworn to before me this 2nd day of
February, 1914.

Walter G. Scott
Notary Public



My Commission expires July 1, 1917

HOMESTEAD ENTRY SURVEY NO. 111

CROOK NATIONAL FOREST

ARIZONA

Chains Applicant for listing, F. L. Scroggins, Application No. 123, dated September 13, 1909; List No. 3-1029, dated January 14, 1911; H. E. No. 017126 made at Phoenix, Arizona by Alva C. Belcher, dated April 4, 1912.

Surveyed under Special Instructions from the Surveyor General for Arizona, dated October 30, 1913, and designated as Homestead Entry Survey No. 111.

Situated in the Crook National Forest, in unsurveyed T. 1 S., R. 15 E., G. & S. R. B. and Meridian in what will probably be, when surveyed, Secs. 15 and 22.

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

Survey commenced January 6, 1914, and executed with a W. and L. E. Gurley light mountain transit No. 12953, with a Burt solar attachment; the horizontal limb having two double verniers placed opposite and reading to single minutes of arc, which is also the least graduation of the verniers of the latitude and declination arcs.

The instrument was examined, tested, and all necessary adjustments made to the levels, line of collimation, stadia interval and solar attachment.

The distances were measured on the slope, and reduced to the horizontal, with a 400 link steel tape and a Philadelphia stadia rod with double targets; the rod being graduated to read in feet and hundredths and the target verniers reading to thousandths.

Preliminary to the survey the stadia interval was tested and adjusted to read 1:132.

January 5, 1914:

I observe Polaris in accordance with instructions at

CROOK NATIONAL FOREST

ARIZONA

Chains 9 h. 38 m. p.m., l.m.t.; at cor H-1 of the list survey, which is an imbedded granite stone 10 x 10 x 10 ins. above ground, marked and witnessed as described by the Forest Service.

Astron. l.m.t. obsn. Jan. 5, 1914. 9 h. 38 m

Astron. l.m.t. U.C. Pol. Jan. 5, 1914 6 30.6

Hour Angle Pol. at obsn. 3 07.4

Azimuth of Pol. at obsn. $1^{\circ} 00' 48''$ W.

January 6, 1914:

At 6 h. 35 m. a.m., l.m.t., I again observe Polaris in accordance with instructions at cor. H-1 of the list survey, heretofore described.

Astron. l.m.t. obsn. Jan. 5, 1914 18 h. 35 m

Astron l.m.t. U.C. Pol. Jan. 5, 1914 6 30.6

Hour Angle Pol. at obsn. 12. 04.4

23 56.1

Hour Angle Pol. from U.C. 11 51.7

Azimuth Pol. at obsn. $0^{\circ} 02' 18''$ E.

I turn off the azimuth $0^{\circ} 2' 18''$ to the W. and mark the line thus determined by driving a tack in a stake set firmly in the ground 6.00 chs. north of my station.

I also turn off the azimuth $1^{\circ} 01'$ to the E. of the line defined by observation on Polaris of January 5, 1914 and mark the point thus determined by driving a tack in the stake set firmly in the ground 6.00 chs. north of my station. The two lines thus determined differ $48''$ of arc. Therefore I mark the mean of the two lines for the meridian by a tack in a stake set firmly in the ground 6.00 chs. north of my station.

January 6, 1914:

At 8 h. 00 m. a.m., l.m.t., I set off $22^{\circ} 30'$ S. on the

HOMESTEAD ENTRY SURVEY NO. 111

CROOK NATIONAL FOREST

ARIZONA

Chains

decl. arc and $33^{\circ} 20'$ on the lat. arc and determine a meridian with the solar at cor. H-1 of the list survey, heretofore described, and my line of sight falls upon the meridian as determined by Polaris observations of January 5th and 6th, 1914. Therefore I conclude that my transit is in satisfactory adjustment.

Thence N. $49^{\circ} 03'$ E. on a true line.

63.76 U. S. L. M. No. 110 H. E. S., which is a conglomerate stone $20 \times 10 \times 12$ ins. above ground, marked and witnessed as described by me in the field notes of H. E. S. No. 110.

Therefore the U. S. L. M. No. 110 H. E. S. bears N. $49^{\circ} 03'$ E. 63.76 chs. dist. from cor. H-1, which will be cor. No. 1 of this survey. I destroy all trace of this list cor. heretofore described and mark 1-HES111 on the W. face of the same stone and a cross (+) for cor. No. 1 of this survey; and raise a mound of stone 2 ft. base, 1-1/2 ft. high W. of cor. from which:

An oak 4 ins. dia. bears N. $51^{\circ} 45'$ W. 31 lks. dist. marked 1 H E S 111 B T.

No other bearings available. Pits impracticable.

I observe the magnetic declination at cor. No. 1 to be $14^{\circ} 35'$ E. at 8 h. 00 m. a.m., l.m.t., which reduced by Table "G", Manual of 1894, Diurnal Variation in Magnetic Declination, gives a mean magnetic declination of $14^{\circ} 34'$ E. Long. $110^{\circ} 45' 50''$ W., as obtained from the Special Instructions from the Surveyor General.

Thence S. $32^{\circ} 00'$ W.

Descend 10 ft. to ravine.

2.90 Ravine course N. Ascend NW. slope in undergrowth 50 ft. to spur.

HOMESTEAD ENTRY SURVEY NO 11125 MOH

CROOK NATIONAL FOREST

ARIZONA

Chains

11.85 Spur bears NW. and SE. Descend 10 ft. to ravine.

19.35 Ravine, course NW. Ascend 15 ft. to cor.

29.25 To cor. No. 2.

Identical with cor. H-2 of the list survey, which is a granite stone in place 48 x 36 x 48 ins. above ground, marked and witnessed as described by the Forest Service.

I destroy all trace of this list cor. and mark a cross (+) at the apex and 2-HES111 on the N. face of the same stone for cor. No. 2 of this survey; and raise a mound of stone 2 ft. base, 1-1/2 ft. high N. of cor. from which:

A mahogany 5 ins. dia. bears S. 88° 30' W. 37

lks. dist. marked 2 H E S 111 B T

An oak 4 ins. dia. bears N. 84° E. 19 lks. dist.

marked 2 H E S 111 B T

North gable end of Pinal Ranger Station bears

S. 20° W. 22.00 chs. dist.

Thence N. 56° 37' W.

Descend 30 ft. along W. slope.

1.50 Foot of descent bears NW. and SE.

3.20 Ice House Creek, 50 lks. wide, banks 2 ft. high, course N.

Ascend 10 ft. to cor.

6.10 Forest Service telephone line, bears N. 11° 30' E. and

S. 11° 30' W.

7.90 Road bears N. and S.

11.10 To cor. No. 3.

Identical with cor. H-3 of the list survey, which is an

imbedded quartzite boulder 8 x 3 x 3 ft. above ground marked and witnessed as described by the Forest Service.

I destroy all trace of this list cor. and mark a cross at the apex of the same stone for cor. No. 3 of this

HOMESTEAD ENTRY SURVEY NO. 111

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Chains survey and 3-HES111 on the E. face of the same boulder; and raise a mound of stone 2 ft. base, 1-1/2 ft. high E. of cor. from which;

An oak 4 ins. dia. bears N. 72° E. 127 lks.

dist. marked 3 H E S 111 B T

No other bearings available. Pits impracticable.

Thence N. 36° 20' E.

Along SE. slope in open.

29.18 To cor. No. 4.

Identical with cor. H-4 of the list survey, which is an imbedded conglomerate stone 24 x 18 x 6 ins. above ground, marked and witnessed as described by the Forest Service. I destroy all trace of this list cor. and mark a cross (+) at the apex of the same stone for cor. No. 4 of this survey and 4-HES111 on the S. face of the same stone; and raise a mound of stone 2 ft. base, 1-1/2 ft. high S. of cor. from which:

A cross (+) on an imbedded granite boulder 36 x 15 x 15 ins. above ground, marked

4 H E S 111 B R bears S. 83° W. 37 lks. dist.

No other bearings available. Pits impracticable.

Thence S. 57° 05' E.

Descend 35 ft. to Creek along SE. slope.

1.21 Forest Service telephone bears N. 31° E. and S. 31° W.

5.85 Road bears N. and S.

6.50 Ice House Creek, 100 lks. wide, banks 2 ft. high, course

N. Ascend 10 ft. to cor.

8.83 Cor. No. 1 of this survey, the place of beginning.

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Chains Note: The sun was obscured at apparent noon, therefore, a latitude observation was not possible.
 January 6, 1914.

Area of Homestead Entry Survey No. 111

Total Area 29.09 acres.

Improvements.

The improvements made upon and for the benefit of this Homestead Entry and belonging to Alva C. Belcher, the claimant herein, consist of the following:

A frame dwelling 18 x 20 ft. the long side of which bears N. and S. and the NE. cor. of which bears S. 48° 15' W. 8.60 chs. dist. from cor. No. 1 of this survey.
 Value \$ 125.00

A frame shed 12 x 15 ft., the long side of which bears N. and S. and the NE. cor. of which bears S. 58° 50' W. 8.60 chs. dist. from cor. No. 1 of this survey.
 Value \$ 150.00

General Description

This Homestead Entry is on Ice House Creek at an elevation of approximately 5,500 feet, and is chiefly valuable for grazing and intensive farming. The soil is a sandy loam and no mineral appears upon this claim.

Globe postoffice and Arizona Eastern Railway Station is 5 miles in a northerly direction.

Ice House Creek, 100 yds. wide, banks 8 ft. high, course
 Cor. No. 1 of this survey, the place of beginning

HOMESTEAD ENTRY SURVEY NO. 111 EMOH

T2 CROOK NATIONAL FOREST

ARIZONA

Chains

Latitudes, Departures and Closing Errors.

ansinD

| Bearing | Distance | Latitude | | Departure | |
|------------------------|----------|--------------|-------|-----------|--------------|
| | | N | S | E | W |
| S. 32° 00' W. | 29.25 | | 24.81 | | 15.50 |
| N. 56° 37' W. | 11.10 | 6.11 | | | 9.27 |
| N. 36° 20' E. | 29.18 | 23.51 | | 17.29 | |
| S. 57° 05' E. | 8.83 | | 4.80 | 7.41 | |
| | 78.36 | 29.62 | 29.61 | 24.70 | 24.77 |
| | | <u>29.61</u> | | | <u>24.70</u> |
| Error in Lat. and Dep. | | .01 | | | .07 |
| Closing Error | 1:1108 | | | | |

Walter G. Turley
 Forest Service Surveyor.

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HOMESTEAD ENTRY SURVEY NO. 11111

NATIONAL FOREST

ARIZONA

| Chains | Latitudes, Distances and Closing Error. | | | | Chains |
|--------|---|----------|----------|------------------------|--------|
| | Departure | Latitude | Distance | Bearing | |
| 18.50 | W | 24.81 | 22.25 | S. 82° 00' W. | |
| 2.27 | | | 11.10 | N. 56° 37' W. | |
| | 17.29 | 22.51 | 29.18 | N. 38° 00' E. | |
| | 7.41 | 4.80 | 8.82 | S. 57° 03' E. | |
| 24.77 | 24.70 | 29.61 | 28.25 | 78.25 | |
| 24.70 | | 29.61 | | | |
| 07. | | | 01. | Error in Lat. and Dep. | |
| | | | | Closing Error 1:1108 | |

Matthew P. Parry
 Forest Service Surveyor

DIRECTIONS.—1. Carry out the area in acres to three decimals, and all other calculations to two decimals only.

2. In balancing Lat. and Dep. do not obliterate or change the original figures:

Put the corrected figure 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.

The corrections for balancing fallings should be proportional to the lengths of the lines.

3. In calculations of fallings take result to nearest hundredth. In calculations of N. and S. areas drop all after second decimal. Surveyors are advised to use the Standard Field Tables issued by G. L. O.

TABLING AND CALCULATIONS OF

Alva C. Belcher *St E S 111*

| No. | COURSE | DISTANCE. | LATITUDES. | | DEPARTURES. | | DOUBLE M. D. | N. AREAS. | S. AREAS. |
|----------|--------------------|-------------|-------------|-------------|-------------|-------------|--------------|---------------|---------------|
| | | | NORTH. | SOUTH. | EAST. | WEST. | | | |
| <i>S</i> | <i>32° 00' 04"</i> | <i>2925</i> | | <i>2484</i> | | <i>1550</i> | <i>3399</i> | | <i>84363</i> |
| <i>N</i> | <i>56° 37' 04"</i> | <i>1110</i> | <i>611</i> | | | <i>927</i> | <i>926</i> | <i>5658</i> | |
| <i>N</i> | <i>36° 20' E</i> | <i>2918</i> | <i>2351</i> | | <i>1729</i> | | <i>1731</i> | <i>40696</i> | |
| <i>S</i> | <i>57° 05' E</i> | <i>883</i> | | <i>480</i> | <i>744</i> | | <i>4204</i> | <i>20179</i> | |
| | | <i>7836</i> | <i>2962</i> | <i>1961</i> | <i>2470</i> | <i>2477</i> | | <i>46354</i> | <i>104542</i> |
| | | | <i>2962</i> | <i>2962</i> | <i>2473</i> | <i>2473</i> | | <i>46354</i> | <i>46354</i> |
| | | | | | | | | <i>258188</i> | <i>258188</i> |
| | | | | | | | | <i>29094</i> | <i>29094</i> |

Closing Error 1:1108

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APPROVAL

Office of the United States Surveyor General,
Phoenix, Arizona,
December 19, 1914.

The foregoing field notes of Homestead Entry Survey No.

111

Alva C. Belcher

executed by Walter G. Turley, Forest Service Surveyor,
under his special instructions, dated October 30, 1913,
having been critically examined, and the necessary correc-
tions and explanations made, the said field notes, and the
surveys they describe, are hereby approved.

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

