

U. S. DEPARTMENT OF AGRICULTURE
FOREST SERVICE

JUN 16 1917

FIELD NOTES

OF

HOMESTEAD ENTRY SURVEY NO. 382

SITUATED IN THE **COCONINO** NATIONAL FOREST

ADMINISTRATIVE DISTRICT NO. 3

In Section 6 , - surveyed, Township 18 N. , Range 9 E.

In Section 31 , - surveyed, Township 19 N. , Range 9 E.

JULY - 1918

of the

Gila and Salt River Base and Meridian.

State of

ARIZONA

Applicant for listing **E. D. Lockwood,** ✓
 Residence **Flagstaff, Arizona**
 Application No. **227** ✓ , dated **January 13** , 1911 ✓
 List No. **3-1701** ✓ , dated **January 22** , 1912 ✓

Applicant for survey **E. D. Lockwood,** ✓
 Residence **Flagstaff, Arizona**
 H. E. No. **012798** ✓ , dated **March 20** , 1913
 Office
 Land ~~District~~ **Phoenix, Arizona**

Survey executed by **R. P. A. Johnson, Surveyor - Draftsman**
[Forest Service Title.]
 Under special instructions dated **July 9** , 1915 ✓
 Survey commenced **November 12** , 1915
 Survey completed **November 13** , 1915
 Under Acts of **June 11, 1906 and March 4, 1915.** ✓

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OATH OF ASSISTANTS

We hereby certify that we assisted R.B. Johnson
Surveyor Draftsman [Forest Service Title.] in surveying all those
parts or portions of Homestead Entry Survey No. 382, 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 estab-
lished, according to the instructions furnished by the United States
Surveyor General for Arizona

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

E.G. Baecht, Chairman
Nuglas E. Meister, Chairman

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

R.B. Johnson
Surveyor Draftsman

OATH OF SURVEYOR

I, R.B. Johnson Draftsman
[Forest Service Title.]

do solemnly swear that, in strict conformity with the special instruc-
tions of the United States Surveyor General for Arizona, dated
July 9, 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

Best patent, No. 3-1701, dated January 22, 1912, for
June 11, 1906,
the same to be known as Homestead Entry Survey No. 382,
situated within the Cocconino National Forest, in
-surveyed Section 6, Township 18N, Range 9E, and
-surveyed Section 31, Township 19N, Range 9E,

of the Gila and Salt River 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.

R.B. Johnson
Surveyor Draftsman
[Forest Service Title.]

Subscribed and sworn to before me this 25th day of
March, 1916

Elsie C. Meyer
Notary Public



HOMESTEAD ENTRY SURVEY NO. 382

COCONINO NATIONAL FOREST

STATE OF ARIZONA

Chains Applicant for listing, E. D. Lockwood; Application No. 227, dated, January 13, 1911; List No. 3-1701, dated January 22, 1912; H. E. 012798, made in the Phoenix Land Office on March 20, 1913 by E. D. Lockwood. Surveyed under special instructions from the Surveyor

General for Arizona, dated July 9, 1915, and designated as Homestead Entry Survey No. 382. Situated in surveyed secs. 6 and 31, Ts. 18 and 19 N., R. 9 E., Gila and Salt River Base and Meridian, Cocconino National Forest, Arizona.

Surveyed under the Acts of June 11, 1906 and March 4, 1915.

Survey commenced November 12, 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 12, 1915.

At 8h. 38.8m. a.m., l.m.t., I observe the altitude of the sun for azimuth at cor. No. 1, which is also cor. of Ts. 18 and 19 N., Rs. 8 and 9 E., hereinafter described. The reading on the reference object is set at zero and the sun was observed in the lower left and upper right quadrants of the field. My watch is set for local mean time. Latitude 34° 58' 40" N., Long. 111° 29' 35" W., from special instructions from the Surveyor General.

Elevation 7100 ft.

HOMESTEAD ENTRY SURVEY NO. 382

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| Chains | Telescope | Time | Horizontal Angle | Vertical Angle |
|---|-----------|---------------|------------------|----------------|
| | Direct | 8h. 37m. 57s. | 46° 48' 00" | 22° 26' 00" |
| | Reversed | 8h. 38m. 50s. | 47° 11' 00" | 22° 04' 30" |
| Bearing of reference object, N. 0° 03' 56" E. | | | | |

At 2h. 54m. p.m., l.m.t., I again observe the altitude of the sun at cor. No. 1. The reading on reference object is set at zero and sun was observed in upper left and lower right quadrants of the field.

| Telescope | Time | Horizontal Angle | Vertical Angle |
|-----------|---------------|------------------|----------------|
| Direct | 2h. 04m. 58s. | 39° 59' 30" | 26' 40' 00" |
| Reversed | 2h. 05m. 53s. | 39° 36' 00" | 27° 06' 30" |

Bearing of reference object, N. 0° 02' 34" E.

The mean of these is N. 0° 03' 15" E., and to the corresponding meridian all the courses of this survey are referred.

Retracements & Resurveys

November 12, 1915.

From cor. for Ts. 18 and 19 N., Rs. 8 and 9 E., which is a post 4 x 4 x 36 ins. set in mound rock, marked and

witnessed as described by the Surveyor General. As

post is partially decayed, I replace it with a malpais

stone 26 x 6 x 6 ins., set 16 ins. in the ground, over

a stone 6 x 5 x 3 ins. marked with a cross, chiseled

with six notches on the N., E., S. and W. faces; and

raise a mound of stone 4 ft. base, 3 ft. high, S. of

cor.

Thence South.

On a random line bet. secs. 1 and 6.

39.99 Fall 15 lks. W. of 1/4 cor. for secs. 1 and 6, which is a post 4 x 4 x 48 ins. marked as described by the Sur-

Chains

veyor General. Post is partially decayed and one witness tree is gone. I restore cor. as follows: Set a pine post 4 ft. long, 4 ins. sq., 10 ins. in ground, over a stone 5 x 4 x 4 ins. marked with a cross, for 1/4 sec. cor., scribed 1/4 S 1 on West face and 1/4 S 6 on E. face and surrounded by a mound of rock 4 ft. base, 3 ft. high, (impracticable to set post deeper,) whence:

A yellow pine, 24 ins. dia., bears N. 34° W.,
48 lks. dist., blazed and scribed 1/4 S 1 B T.

A yellow pine, 6 ins. dia., bears S. 77° 45' E.,
46 lks. dist., blazed and scribed 1/4 S 6 B T.

Return course N. 0° 13' W., 39.99 chs.

From cor. for Ts. 18 and 19 N., Rs. 8 and 9 E., heretofore described.

Thence East. On random line bet. secs. 6 and 31

39.89 The 1/4 cor. bet. secs. 6 and 31 is not found after careful search.

79.20 Intersect N. and S. line 343 lks. S. of cor. for secs. 5, 6, 31 and 32, which is a malpais stone 10 x 4 x 10 ins. above ground, marked and witnessed as described in the notes for H. E. S. 383 in connection with which survey I restored this cor.

Thence S. 87° 31' W.

On true line bet. secs. 6 and 31 .

39.69 At this point I again make careful search for the old 1/4 cor., which is described by the Surveyor General as a post set in the ground with 2 witness trees; but am unable to find any trace of post or witness trees. I therefore re-establish this 1/4 cor. at proportional distance as follows:

4.

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Chains

Set a malpais stone 24 x 8 x 6 ins., 14 ins. in the ground, over a stone 6 x 3 x 2 ins. marked with a cross, chiseled 1/4 on N. face; and raise a mound of stone 3 ft. base, 2 ft. high, N. of cor. from which:

A yellow pine 14 ins. dia., bears N. 31° E.,
46 lks. dist., blazed and scribed 1/4 S 31

B T.

A yellow pine, 6 ins. dia., bears S. 47° 58'
W., 32 lks. dist., blazed and scribed 1/4

S 6 B T.

79.27

Cor. for Ts. 18 and 19 N., Rs. 8 and 9 E., heretofore described.

Boundaries of H.E.S. 382.

Beginning at cor. No. 1.

Identical with cor. H-1 of the list survey, which is a malpais stone 12 x 10 x 8 ins. in a mound of stone, marked and witnessed as described by the Forest Service. I destroy all trace of this list cor. and its witnesses. This is also identical with cor. for Ts. 18 and 19 N., Rs. 8 and 9 E., heretofore described. I mark a + on top of township cor. and alongside set a malpais stone 26 x 8 x 8 ins., 16 ins. in the ground, chiseled 1 - H E S 382 on E. face, from which:

A white oak, 44 ins. dia., bears N. 4° 32' W.,
13 lks. dist., blazed and scribed 1 H E S
382 + B T.

A yellow pine, 36 ins. dia., bears N. 39°
54' E., 66 lks. dist., blazed and scribed
1 H E S 382 + B T.

Latitude 34° 58' 40" N., Longitude 111° 29' 35" W.,

from special instructions from the Surveyor General.

Mag. Va. at 9:00 a.m., 14° 45' E. Mean mag. Va. 14°

43' E.

Thence N. 13° 25' E.

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Chains Over open level land.

3.70 Arroyo, 6 lks. wide, 2 ft. deep, course E.

4.15 Enter cultivated land, bears E. and W.

11.00 Leave cultivated land, bears E. and SSW.

14.99 To cor. No. 2.

Identical with cor. H-2 of list survey, which is a malpais stone 24 x 8 x 4 ins. above ground, marked and witnessed as described by the Forest Service. I destroy cor. H-2 and its witnesses; and, for cor. No. 2 of this survey I chisel (+) on a stone 7 x 5 x 2 ins. and deposit it 14 ins. in the ground; over which I set a malpais stone 24 x 8 x 4 ins., 14 ins. in the ground; chiseled (+) at the point and 2 H E S 382 on the SE. face; and raise a mound of stone 3 ft. base, 2 ft. high SE. of cor., from which:

A yellow pine, 16 ins. dia., bears N. 57° 22' W., 181 lks. dist., blazed and scribed 2 H E S 382 + B T.

A yellow pine, 38 ins. dia., bears S. 70° 51' W., 115 lks. dist., blazed and scribed 2 H E S 382 + B T.

Thence S. 78° 51' E.

Across park, over level land. Fence on line.

5.00 Arroyo, 10 lks. wide, 1 ft. deep, course SE.

20.93 To cor. No. 3.

Identical with cor. H-3 of list survey, which is a malpais stone 6 x 5 x 6 ins. above ground, marked and witnessed as described by the Forest Service. I destroy cor. H-3 and its witnesses; and, for cor. No. 3 of this survey, I chisel (+) on a stone 5 x 4 x 4 ins., and deposit it 16 ins. in the ground; over which I set

Chains

a malpais stone 26 x 14 x 8 ins., 16 ins. in the ground; chiseled (+) at the point and 3 - H E S 382 on the SW. face; and raise a mound of stone 3 ft. base, 2 ft. high, SW. of cor., from which:

A yellow pine, 36 ins. dia., bears N. 41° 22' E., 8 lks. dist., blazed and scribed 3 H E S 382 + B T.

A yellow pine, 30 ins. dia., bears S. 8° 23' W., 100 lks. dist., blazed and scribed 3 H E S 382 + B T.

Thence S. 16° 36' E.

In open, over level land along edge of timber.

Fence on line.

8.40 Arroyo, 20 lks. wide, 1 ft. deep, course SW.

9.50 Road, bears NE. and SW.

9.77 To cor. No. 4 and C. C. on line bet. secs. 6 and 31.

I chisel (+) on a stone 5 x 4 x 4 ins., and deposit it 14 ins. in the ground; over which I set a malpais stone 24 x 8 x 8 ins., 14 ins. in the ground; chiseled (+) at the point and 4 - H E S 382 on the W. face and C C on NNW. face. No witnesses available, therefore

dig pits 30 x 24 x 12 ins. crosswise on each line S. 87° 31' W. and N. 87° 31' E., 4 ft. and N. 16° 36' W. 8 ft. dist.; and raise a mound of earth and rock 5 ft. base, 3 ft. high, N. 16° 36' W., 3-1/2 ft. dist.

Cor. for Ts. 18 and 19 N., Rs. 9 and 10 E., heretofore described, bears S. 87° 31' W., 26.82 chs.

1/4 cor. bet. secs. 6 and 31, heretofore described, bears N. 87° 31' E., 12.76 chs.

November 12, 1915.

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Chains
November 13, 1915.
Thence S. 16° 36' E.
In open level land, along edge of timber. Fence on line.
7.00 Foot ascent. Ascend 10 ft. to ridge. Enter pine timber, bears NE. and SW.
10.75 Leave fence, bears SE. Descend 10 ft. to flat.
15.80 Foot ascent, leave timber, bears NE. and SW.
20.22 To cor. No. 5.

Identical with cor. H-4 of list survey, which is a malpais stone 8 x 4 x 6 ins. above ground, marked and witnessed as described by the Forest Service. I destroy cor. H-4 and its witnesses; and, for cor. No. 5 of this survey, I chisel (+) on a stone 4 x 4 x 2 ins., and deposit it 14 ins. in the ground; over which I set a malpais stone 24 x 14 x 14 ins., 14 ins. in the ground; chiseléd (+) at the point and 5 - H E S 382 on the SE. face; and raise a mound of stone 3 ft. base, 2 ft. high, SE. of cor., from which:

A yellow pine, 24 ins. dia., bears S. 11° 21' W., 79 lks. dist., blazed and scribed 5 H E S 382 + B T.

A yellow pine, 28 ins. dia., bears N. 84° 43' E., 93 lks. dist., blazed and scribed 5 H E S 382 + B T.

Thence S. 47° 38' E.
In open level land, along base of SW. slope.

2.12 Fence cor., fence bears NW. and SE.
35.94 To cor. No. 6.

Identical with cor. H-5 of list survey, which is a malpais stone 6 x 5 x 6 ins. above ground, marked and

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Chains

witnessed as described by the Forest Service. I de-
stroy cor. H-5, and for cor. No. 6 of this survey, I
chisel (+) on a stone 6 x 4 x 3 ins. and deposit it
18 ins. in the ground; over which I set a malpais stone
28 x 8 x 6 ins., 18 ins. in the ground; chiseled (+)
at the point and 6 - H E S 382 on the W. face; and raise
a mound of stone 4 ft. base, 3 ft. high, W. of cor.
No witnesses available. Pits impracticable.

Thence S. 72° 14' W.

Over level land, across park.

2.75 Fence, bears NW. and SE.

19.20 Arroyo, 20 lks. wide, 1 ft. deep, course SSE.

25.00 Road, bears N. and S.

32.02 To cor. No. 7.

Identical with cor. H-6 of list survey, which is a
malpais stone 8 x 3 x 7 ins. above ground, marked and
witnessed as described by the Forest Service. I de-
stroy cor. H-6 and its witnesses; and, for cor. No. 7
of this survey, I chisel (+) on a stone 5 x 4 x 2 ins.
and deposit it 14 ins. in the ground; over which I set
a malpais stone 24 x 9 x 7 ins., 14 ins. in the ground,
chiseled (+) at the point and 7 - H E S 382 on the NE.
face; and raise a mound of stone 3 ft. base, 2 ft.
high, NE. of cor., from which:

A white oak, 6 ins. dia., bears S. 43°

30' W., 151 lks. dist., blazed and scribed

7 H E S 382 + B T.

A white oak, 8 ins. dia., bears N. 30° 46' W.,

239 lks. dist., blazed and scribed

7 H E S 382 + B T.

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Chains Thence N. 18° 41' W. over level park. Arroyo, 25 lks. wide, 12 ft. deep, course ENE. (+)
 6.70
 13.00 Enter cultivated land, bears E. and W.
 13.65 Leave cultivated land, bears E. and W.
 15.80 Enter cultivated land, bears E. and W.
 16.10 Leave cultivated land, bears E. and W.
 19.00 Enter scattered pine timber, bears NE. and SW.
 27.52 To cor. No. 8.
 At cor. of fence; fence bears ESE., SSE. and NW.
 Identical with cor. H-7 of list survey, which is a malpais stone 6 x 4 x 6 ins. above ground, marked and witnessed as described by the Forest Service. I destroy cor. H-7 and its witnesses; and, for cor. No. 8 of this survey, I chisel (+) on a stone 6 x 5 x 1 ins., and deposit it 14 ins. in the ground; over which I set a malpais stone 24 x 12 x 4 ins., 14 ins. in the ground; chiseled (+) at the point and 8 - H E S 382 on the E. face; and raise a mound of stone 3 ft. base, 2 ft. high, E. of cor., from which:
 A yellow pine, 38 ins. dia., bears N. 75°
 59' W., 22 lks. dist., blazed and scribed
 8 H E S 382 + B T.
 A yellow pine, 40 ins. dia., bears S. 3°
 30' W., 122 lks. dist., blazed and scribed
 8 H E S 382 + B T.
 Thence N. 56° 49' W.
 Over level land, in edge of timber. Fence on line.
 27.10 Leave fence, bears NW.
 29.21 To cor. No. 9, and C. C. on line bet. secs. 1 and 6.
 I chisel (+) on a stone 3 x 2 x 2 ins., and deposit

Chains

it 14 ins. in the ground; over which I set a malpais stone 24 x 10 x 6 ins., 14 ins. in the ground; chiseled (+) at the point and 9 - H E S 382 on the E. face and C C on SE. face; and raise a mound of stone 3 ft. base, 2 ft. high, SE. of cor., from which:

A yellow pine, 36 ins. dia., bears S. 51° 40' E., 185 lks. dist., blazed and scribed 9 H ES 382 + B T.

An oak, 42 ins. dia., bears S. 35° 20' W., 95 lks. dist., blazed and scribed 9 H E S 382 + B T.

Cor. for Ts. 18 and 19 N., Rs. 8 and 9 E., heretofore described, bears N. 0° 13' W., 9.00 chs.

1/4 cor. bet. secs. 1 and 6, heretofore described, bears S. 0° 13' E., 30.99 chs.

Cor. H-8 of list survey, which is a malpais stone 10 x 6 x 10 ins. above ground, marked and witnessed as described by the Forest Service, bears N. 15° W., 1.04 chs. dist.

I destroy all trace of this list cor.

Thence N. 0° 13' W.

Over level land, in edge of timber.

1.37 Arroyo, 4 lks. wide, 2 ft. deep, course ESE. Leave timber, bears E. and W.

1.53 Fence, bears S. 80° W. and N. 80° E.

2.33 Spring.

3.20 Fence cor., fence bears S. 80° W. and N. 80° E. and N. along line.

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

Chains

AREA

Listed Area - - - - 141.69
 Unlisted Area - - - 4.63
 Area in Sec. 31 - - - - - 28.38 acres
 Area in Sec. 6 - - - - - 117.94 acres
 Total Area - - - - - 146.32 acres

Note: The strip excepted from the original listing for a road was included in this survey, since it is no longer required for protection of Forest Service interests.

IMPROVEMENTS

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

An L shaped frame dwelling, 24 x 16 ft., with 12 x 12 ft. L., the long side of which bears N. and S. and the SW. cor. of which bears N. 7° 59' E., 3.63 chs. dist. from cor. No. 9.

Value - - - - - \$ 500.00

A frame barn, 48 x 30 ft., the long side of which bears N. and S., and SW. cor. of which bears S. 70° 59' E., 1.94 chs. dist. from cor. No. 9.

Value - - - - - \$500.00

A log chicken house, 18 x 16 ft., the long side of which bears NW. and SE., and the W. cor. of which bears N. 41° 30' E., 29 lks. dist. from cor. No. 9.

Value - - - - - \$ 50.00

There is approximately 2-3/4 miles of wire fence.

Value - - - - - \$ 300.00

DESCRIPTION

This tract is situated in an open park at base of Mormon Mountain and three quarters of a mile NW. of

Chains

Mormon Lake. It lies at an elevation of 7100 ft. The entire tract is practically level, the drainage is to the SE.

The soil is a clayey loam, fertile, and of good depth.

The timber consists of scattered yellow pine covering approximately 3 acres, and lies along the lines on SW., with small point of timber on E.

There is no water for irrigation and none is necessary as tract has an annual rainfall of approximately 22 ins. Water for domestic use is obtained from small spring.

I saw no indication of mineral upon this claim.

There is approximately 35 acres in cultivation.

Any discrepancy between these and the field notes of the listing survey is due to error in the latter.

CONFLICTS AND ADJOINING CLAIMS.

There are no conflicting or adjoining claims.

Flagstaff, Arizona, the nearest railroad point and post

office is approximately 27 miles to North and is reached by good wagon road.

TRAVERSE

Entire Tract:

| Cor. | Course | Dist. | N | S | E | W |
|------|---------------|-------|-------|-------|-------|-------|
| 1-2 | N. 13° 25' E. | 14.99 | 14.58 | | 3.48 | |
| 2-3 | S. 78° 51' E. | 20.93 | | 4.05 | 20.53 | |
| 3-4 | S. 16° 36' E. | 9.77 | | 9.36 | 2.79 | |
| 4-5 | S. 16° 36' E. | 20.22 | | 19.38 | 5.78 | |
| 5-6 | S. 47° 38' E. | 35.94 | | 24.22 | 26.55 | |
| 6-7 | S. 72° 14' W. | 32.02 | | 9.77 | | 30.49 |
| 7-8 | N. 8° 41' W. | 27.52 | 27.20 | | | 4.15 |
| 8-9 | N. 56° 49' W. | 29.21 | 15.99 | | | 24.45 |
| 9-1 | N. 0° 13' W. | 9.00 | 9.00 | | | 0.03 |

199.60 66.77 66.78 59.13 59.12

66.77 59.12

Error in Lat. and Dep.

.01 .01

Closing error, 1:14117

HOMESTEAD ENTRY SURVEY NO. 382

COCONINO NATIONAL FOREST

STATE OF ARIZONA

Chains

Sec. 31, T. 19 N., R. 9 E.

| Cor. | Course | Dist. | N | S | E | W |
|------|------------------------|--------------|--------------|--------------|--------------|--------------|
| 1-2 | N. 13° 25' E. | 14.99 | 14.58 | | | |
| 2-3 | S. 78° 51' E. | 20.93 | | 4.05 | 3.48 | |
| 3-4 | S. 16° 36' E. | 9.77 | | 9.36 | 20.53 | |
| 4-1 | S. 87° 31' W. | 26.82 | | 1.16 | 2.79 | |
| | | <u>72.51</u> | <u>14.58</u> | <u>14.57</u> | <u>26.80</u> | <u>26.79</u> |
| | | | <u>14.57</u> | | <u>26.79</u> | <u>26.79</u> |
| | Error in Lat. and Dep. | | <u>.01</u> | | <u>.01</u> | |

Error in Lat. and Dep.

Closing error, 1:5126.

Sec. 6, T. 18 N., R. 9 E.

| Cor. | Course | Dist. | N | S | E | W |
|------|------------------------|---------------|--------------|--------------|--------------|--------------|
| 1-4 | N. 87° 31' E. | 26.82 | 1.16 | | | |
| 4-5 | S. 16° 36' E. | 20.22 | | | 26.79 | |
| 5-6 | S. 47° 38' E. | 35.94 | | 19.38 | 5.78 | |
| 6-7 | S. 72° 14' W. | 32.02 | | 24.22 | 26.55 | |
| 7-8 | N. 8° 41' W. | 27.52 | 27.20 | 9.77 | | 30.49 |
| 8-9 | N. 56° 49' W. | 29.21 | 15.99 | | | 4.15 |
| 9-1 | N. 0° 13' W. | 9.00 | 9.00 | | | 24.45 |
| | | <u>180.73</u> | <u>53.35</u> | <u>53.37</u> | <u>59.12</u> | <u>59.12</u> |
| | | | | <u>53.35</u> | <u>59.12</u> | |
| | Error in Lat. and Dep. | | | <u>.02</u> | <u>.00</u> | |

Error in Lat. and Dep.

Closing error, 1:9036.

Survey completed November 13, 1915.

R. P. A. Johnson
Surveyor - Draftsman

HOMESTEAD ENTRY SURVEY NO.

NATIONAL FOREST

STATE OF

Chains

| Course | Dist. | Course | Dist. | Course | Dist. | Course | Dist. |
|--------|-------|--------|-------|--------|-------|--------|-------|
| 1-1 | 1.18 | 2-1 | 1.18 | 3-1 | 1.18 | 4-1 | 1.18 |
| 1-2 | 1.18 | 2-2 | 1.18 | 3-2 | 1.18 | 4-2 | 1.18 |
| 1-3 | 1.18 | 2-3 | 1.18 | 3-3 | 1.18 | 4-3 | 1.18 |
| 1-4 | 1.18 | 2-4 | 1.18 | 3-4 | 1.18 | 4-4 | 1.18 |
| 1-5 | 1.18 | 2-5 | 1.18 | 3-5 | 1.18 | 4-5 | 1.18 |
| 1-6 | 1.18 | 2-6 | 1.18 | 3-6 | 1.18 | 4-6 | 1.18 |
| 1-7 | 1.18 | 2-7 | 1.18 | 3-7 | 1.18 | 4-7 | 1.18 |
| 1-8 | 1.18 | 2-8 | 1.18 | 3-8 | 1.18 | 4-8 | 1.18 |
| 1-9 | 1.18 | 2-9 | 1.18 | 3-9 | 1.18 | 4-9 | 1.18 |
| 1-10 | 1.18 | 2-10 | 1.18 | 3-10 | 1.18 | 4-10 | 1.18 |
| 1-11 | 1.18 | 2-11 | 1.18 | 3-11 | 1.18 | 4-11 | 1.18 |
| 1-12 | 1.18 | 2-12 | 1.18 | 3-12 | 1.18 | 4-12 | 1.18 |
| 1-13 | 1.18 | 2-13 | 1.18 | 3-13 | 1.18 | 4-13 | 1.18 |
| 1-14 | 1.18 | 2-14 | 1.18 | 3-14 | 1.18 | 4-14 | 1.18 |
| 1-15 | 1.18 | 2-15 | 1.18 | 3-15 | 1.18 | 4-15 | 1.18 |
| 1-16 | 1.18 | 2-16 | 1.18 | 3-16 | 1.18 | 4-16 | 1.18 |
| 1-17 | 1.18 | 2-17 | 1.18 | 3-17 | 1.18 | 4-17 | 1.18 |
| 1-18 | 1.18 | 2-18 | 1.18 | 3-18 | 1.18 | 4-18 | 1.18 |
| 1-19 | 1.18 | 2-19 | 1.18 | 3-19 | 1.18 | 4-19 | 1.18 |
| 1-20 | 1.18 | 2-20 | 1.18 | 3-20 | 1.18 | 4-20 | 1.18 |
| 1-21 | 1.18 | 2-21 | 1.18 | 3-21 | 1.18 | 4-21 | 1.18 |
| 1-22 | 1.18 | 2-22 | 1.18 | 3-22 | 1.18 | 4-22 | 1.18 |
| 1-23 | 1.18 | 2-23 | 1.18 | 3-23 | 1.18 | 4-23 | 1.18 |
| 1-24 | 1.18 | 2-24 | 1.18 | 3-24 | 1.18 | 4-24 | 1.18 |
| 1-25 | 1.18 | 2-25 | 1.18 | 3-25 | 1.18 | 4-25 | 1.18 |
| 1-26 | 1.18 | 2-26 | 1.18 | 3-26 | 1.18 | 4-26 | 1.18 |
| 1-27 | 1.18 | 2-27 | 1.18 | 3-27 | 1.18 | 4-27 | 1.18 |
| 1-28 | 1.18 | 2-28 | 1.18 | 3-28 | 1.18 | 4-28 | 1.18 |
| 1-29 | 1.18 | 2-29 | 1.18 | 3-29 | 1.18 | 4-29 | 1.18 |
| 1-30 | 1.18 | 2-30 | 1.18 | 3-30 | 1.18 | 4-30 | 1.18 |
| 1-31 | 1.18 | 2-31 | 1.18 | 3-31 | 1.18 | 4-31 | 1.18 |
| 1-32 | 1.18 | 2-32 | 1.18 | 3-32 | 1.18 | 4-32 | 1.18 |
| 1-33 | 1.18 | 2-33 | 1.18 | 3-33 | 1.18 | 4-33 | 1.18 |
| 1-34 | 1.18 | 2-34 | 1.18 | 3-34 | 1.18 | 4-34 | 1.18 |
| 1-35 | 1.18 | 2-35 | 1.18 | 3-35 | 1.18 | 4-35 | 1.18 |
| 1-36 | 1.18 | 2-36 | 1.18 | 3-36 | 1.18 | 4-36 | 1.18 |
| 1-37 | 1.18 | 2-37 | 1.18 | 3-37 | 1.18 | 4-37 | 1.18 |
| 1-38 | 1.18 | 2-38 | 1.18 | 3-38 | 1.18 | 4-38 | 1.18 |
| 1-39 | 1.18 | 2-39 | 1.18 | 3-39 | 1.18 | 4-39 | 1.18 |
| 1-40 | 1.18 | 2-40 | 1.18 | 3-40 | 1.18 | 4-40 | 1.18 |
| 1-41 | 1.18 | 2-41 | 1.18 | 3-41 | 1.18 | 4-41 | 1.18 |
| 1-42 | 1.18 | 2-42 | 1.18 | 3-42 | 1.18 | 4-42 | 1.18 |
| 1-43 | 1.18 | 2-43 | 1.18 | 3-43 | 1.18 | 4-43 | 1.18 |
| 1-44 | 1.18 | 2-44 | 1.18 | 3-44 | 1.18 | 4-44 | 1.18 |
| 1-45 | 1.18 | 2-45 | 1.18 | 3-45 | 1.18 | 4-45 | 1.18 |
| 1-46 | 1.18 | 2-46 | 1.18 | 3-46 | 1.18 | 4-46 | 1.18 |
| 1-47 | 1.18 | 2-47 | 1.18 | 3-47 | 1.18 | 4-47 | 1.18 |
| 1-48 | 1.18 | 2-48 | 1.18 | 3-48 | 1.18 | 4-48 | 1.18 |
| 1-49 | 1.18 | 2-49 | 1.18 | 3-49 | 1.18 | 4-49 | 1.18 |
| 1-50 | 1.18 | 2-50 | 1.18 | 3-50 | 1.18 | 4-50 | 1.18 |
| 1-51 | 1.18 | 2-51 | 1.18 | 3-51 | 1.18 | 4-51 | 1.18 |
| 1-52 | 1.18 | 2-52 | 1.18 | 3-52 | 1.18 | 4-52 | 1.18 |
| 1-53 | 1.18 | 2-53 | 1.18 | 3-53 | 1.18 | 4-53 | 1.18 |
| 1-54 | 1.18 | 2-54 | 1.18 | 3-54 | 1.18 | 4-54 | 1.18 |
| 1-55 | 1.18 | 2-55 | 1.18 | 3-55 | 1.18 | 4-55 | 1.18 |
| 1-56 | 1.18 | 2-56 | 1.18 | 3-56 | 1.18 | 4-56 | 1.18 |
| 1-57 | 1.18 | 2-57 | 1.18 | 3-57 | 1.18 | 4-57 | 1.18 |
| 1-58 | 1.18 | 2-58 | 1.18 | 3-58 | 1.18 | 4-58 | 1.18 |
| 1-59 | 1.18 | 2-59 | 1.18 | 3-59 | 1.18 | 4-59 | 1.18 |
| 1-60 | 1.18 | 2-60 | 1.18 | 3-60 | 1.18 | 4-60 | 1.18 |
| 1-61 | 1.18 | 2-61 | 1.18 | 3-61 | 1.18 | 4-61 | 1.18 |
| 1-62 | 1.18 | 2-62 | 1.18 | 3-62 | 1.18 | 4-62 | 1.18 |
| 1-63 | 1.18 | 2-63 | 1.18 | 3-63 | 1.18 | 4-63 | 1.18 |
| 1-64 | 1.18 | 2-64 | 1.18 | 3-64 | 1.18 | 4-64 | 1.18 |
| 1-65 | 1.18 | 2-65 | 1.18 | 3-65 | 1.18 | 4-65 | 1.18 |
| 1-66 | 1.18 | 2-66 | 1.18 | 3-66 | 1.18 | 4-66 | 1.18 |
| 1-67 | 1.18 | 2-67 | 1.18 | 3-67 | 1.18 | 4-67 | 1.18 |
| 1-68 | 1.18 | 2-68 | 1.18 | 3-68 | 1.18 | 4-68 | 1.18 |
| 1-69 | 1.18 | 2-69 | 1.18 | 3-69 | 1.18 | 4-69 | 1.18 |
| 1-70 | 1.18 | 2-70 | 1.18 | 3-70 | 1.18 | 4-70 | 1.18 |
| 1-71 | 1.18 | 2-71 | 1.18 | 3-71 | 1.18 | 4-71 | 1.18 |
| 1-72 | 1.18 | 2-72 | 1.18 | 3-72 | 1.18 | 4-72 | 1.18 |
| 1-73 | 1.18 | 2-73 | 1.18 | 3-73 | 1.18 | 4-73 | 1.18 |
| 1-74 | 1.18 | 2-74 | 1.18 | 3-74 | 1.18 | 4-74 | 1.18 |
| 1-75 | 1.18 | 2-75 | 1.18 | 3-75 | 1.18 | 4-75 | 1.18 |
| 1-76 | 1.18 | 2-76 | 1.18 | 3-76 | 1.18 | 4-76 | 1.18 |
| 1-77 | 1.18 | 2-77 | 1.18 | 3-77 | 1.18 | 4-77 | 1.18 |
| 1-78 | 1.18 | 2-78 | 1.18 | 3-78 | 1.18 | 4-78 | 1.18 |
| 1-79 | 1.18 | 2-79 | 1.18 | 3-79 | 1.18 | 4-79 | 1.18 |
| 1-80 | 1.18 | 2-80 | 1.18 | 3-80 | 1.18 | 4-80 | 1.18 |
| 1-81 | 1.18 | 2-81 | 1.18 | 3-81 | 1.18 | 4-81 | 1.18 |
| 1-82 | 1.18 | 2-82 | 1.18 | 3-82 | 1.18 | 4-82 | 1.18 |
| 1-83 | 1.18 | 2-83 | 1.18 | 3-83 | 1.18 | 4-83 | 1.18 |
| 1-84 | 1.18 | 2-84 | 1.18 | 3-84 | 1.18 | 4-84 | 1.18 |
| 1-85 | 1.18 | 2-85 | 1.18 | 3-85 | 1.18 | 4-85 | 1.18 |
| 1-86 | 1.18 | 2-86 | 1.18 | 3-86 | 1.18 | 4-86 | 1.18 |
| 1-87 | 1.18 | 2-87 | 1.18 | 3-87 | 1.18 | 4-87 | 1.18 |
| 1-88 | 1.18 | 2-88 | 1.18 | 3-88 | 1.18 | 4-88 | 1.18 |
| 1-89 | 1.18 | 2-89 | 1.18 | 3-89 | 1.18 | 4-89 | 1.18 |
| 1-90 | 1.18 | 2-90 | 1.18 | 3-90 | 1.18 | 4-90 | 1.18 |
| 1-91 | 1.18 | 2-91 | 1.18 | 3-91 | 1.18 | 4-91 | 1.18 |
| 1-92 | 1.18 | 2-92 | 1.18 | 3-92 | 1.18 | 4-92 | 1.18 |
| 1-93 | 1.18 | 2-93 | 1.18 | 3-93 | 1.18 | 4-93 | 1.18 |
| 1-94 | 1.18 | 2-94 | 1.18 | 3-94 | 1.18 | 4-94 | 1.18 |
| 1-95 | 1.18 | 2-95 | 1.18 | 3-95 | 1.18 | 4-95 | 1.18 |
| 1-96 | 1.18 | 2-96 | 1.18 | 3-96 | 1.18 | 4-96 | 1.18 |
| 1-97 | 1.18 | 2-97 | 1.18 | 3-97 | 1.18 | 4-97 | 1.18 |
| 1-98 | 1.18 | 2-98 | 1.18 | 3-98 | 1.18 | 4-98 | 1.18 |
| 1-99 | 1.18 | 2-99 | 1.18 | 3-99 | 1.18 | 4-99 | 1.18 |
| 1-100 | 1.18 | 2-100 | 1.18 | 3-100 | 1.18 | 4-100 | 1.18 |

Survey completed November 12, 1918.

COCONINO NATIONAL FOREST

STATE OF ARIZONA

Chains

Direct Solar at cor. No. 1 on November 12, 1915, a.m.

Latitude 34° 58' 40" N. Longitude 111° 29' 35" W.

Elevation 7100 ft.

| Telescope | Time | Horizontal Angle | Vertical Angle | Pos. Sun |
|-----------|-----------------|------------------|----------------|----------|
| Direct | 8h. 37m. 57s. | 46° 48' 00" | 22° 26' 00" | ♯ |
| Reversed | 8h. 38m. 50s. | 47° 11' 00" | 22° 04' 30" | +° |
| Mean | 8h. 38m. 23s. | 46° 59' 30" | 22° 15' 15" | |
| | 4h. 34m. 02s. | | 01' 49" ref. | |
| | 4h. 04m. 21s. ✓ | True alt. | -22° 13' 26" ✓ | |

Decl. 17° 31' 46" S.

$$\text{Cos. } Q. = \frac{\text{Sin. } 17^{\circ} 31' 46''}{\text{Cos. } 34^{\circ} 58' 40'' \times \text{Cos. } 22^{\circ} 13' 26''}$$

$$\text{Tan. } 34^{\circ} 58' 40'' \times \text{Tan. } 22^{\circ} 15' 26''.$$

$$\begin{aligned} \log. \sin. 17^{\circ} 31' 46'' &= + 9.478849 \checkmark \\ \log. \cos. 34^{\circ} 58' 40'' &= - 9.913482 \checkmark \\ \log. \cos. 22^{\circ} 13' 26'' &= - 9.966476 \checkmark \\ & \underline{9.598891} = \log. .39709 \checkmark \\ \log. \tan. 34^{\circ} 58' 40'' &= 9.844868 \checkmark \\ \log. \tan. 22^{\circ} 13' 26'' &= 9.611276 \checkmark \\ & \underline{9.456144} = \log. .28585 \checkmark \end{aligned}$$

$$\begin{aligned} \text{Cos. } Q. &= .68294 \\ Q. &= 46^{\circ} 55' 34'' \checkmark \end{aligned}$$

Bearing of reference object, N. 0° 03' 56" E. ✓

Direct Solar at cor. No. 1 on November 12, 1915, p.m.

| Telescope | Time | Horizontal Angle | Vertical Angle | Pos. Sun |
|-----------|-----------------|------------------|----------------|----------|
| Direct | 2h. 04m. 58s. | 39° 59' 30" | 26° 40' 00" | ⊕ |
| Reversed | 2h. 05m. 53s. | 39° 36' 00" | 27° 06' 30" | +° |
| Mean | 2h. 05m. 25s. | 39° 47' 45" | 26° 53' 15" | |
| | 7h. 25m. 58s. ✓ | | 01' 29" ✓ | |
| | 9h. 31m. 23s. | | 26° 51' 46" ✓ | |

Decl. 17° 35' 30" S.

$$\text{Cos. } Q. = \frac{\text{Sin. } 17^{\circ} 35' 30''}{\text{Cos. } 34^{\circ} 58' 40'' \times \text{Cos. } 26^{\circ} 51' 46''}$$

$$\text{Tan. } 34^{\circ} 58' 40'' \times \text{Tan. } 26^{\circ} 57' 46''$$

$$\begin{aligned} \log. \sin. 17^{\circ} 35' 30'' &= 9.480340 \checkmark \\ \log. \cos. 34^{\circ} 58' 40'' &= 9.913482 \checkmark \\ \log. \cos. 26^{\circ} 51' 46'' &= 9.950409 \checkmark \\ & \underline{9.616449} = \log. .41348 \checkmark \\ \log. \tan. 34^{\circ} 58' 40'' &= 9.844868 \checkmark \\ \log. \tan. 26^{\circ} 51' 46'' &= 9.704590 \checkmark \\ & \underline{9.549458} = \log. .35437 \checkmark \end{aligned}$$

$$\begin{aligned} \text{Cos. } Q. &= .76785 \\ Q. &= 39^{\circ} 50' 19'' \checkmark \end{aligned}$$

Bearing of reference object, N. 0° 02' 34" E. ✓

| Chains | Vertical Angle | Horizontal Angle | Time | Telescope | Direct Solar at cor. No. 1 on November 12, 1912, p.m. |
|--------|----------------|---|---------------|-----------|---|
| 40 | 22° 18' 15" | 46° 58' 00" | 37m. 57s. | Direct | Bearing of reference object, N. 0° 08' 34" E. |
| | 22° 04' 30" | 47° 11' 00" | 38m. 30s. | Reversed | |
| | 22° 18' 15" | 46° 58' 00" | 37m. 57s. | Mean | |
| | 01' 42" vert. | | 4m. 34m. 02s. | | |
| | 22° 18' 15" | 46° 58' 00" | 37m. 57s. | | |
| | | Decl. 17° 31' 46" S. | | | |
| | | Cor. C. = | | | |
| | | Cor. 34° 58' 40" x Cor. 22° 18' 15" | | | |
| | | Tan. 34° 58' 40" x Tan. 22° 18' 15" = | | | |
| | | Loc. sin. 17° 31' 46" = 0.298891 | | | |
| | | Loc. cos. 34° 58' 40" = 0.917432 | | | |
| | | Loc. cos. 22° 18' 15" = 0.926476 | | | |
| | | Loc. tan. 34° 58' 40" = 0.844868 | | | |
| | | Loc. tan. 22° 18' 15" = 0.411376 | | | |
| | | 0.411376 = Loc. 22° 18' 15" | | | |
| | | Cor. C. = | | | |
| | | Cor. 34° 58' 40" = 0.88234 | | | |
| | | Bearing of reference object, N. 0° 08' 34" E. | | | |
| | | Direct Solar at cor. No. 1 on November 12, 1912, p.m. | | | |
| | 22° 04' 30" | 22° 59' 30" | 37m. 57s. | Direct | |
| | 27° 05' 30" | 22° 58' 00" | 38m. 58s. | Reversed | |
| | 22° 04' 30" | 22° 47' 45" | 37m. 57s. | Mean | |
| | 01' 32" | | 4m. 35m. 58s. | | |
| | 22° 04' 30" | 22° 59' 30" | 37m. 57s. | | |
| | | Decl. 17° 31' 46" S. | | | |
| | | Cor. C. = | | | |
| | | Cor. 34° 58' 40" x Cor. 22° 18' 15" | | | |
| | | Tan. 34° 58' 40" x Tan. 22° 18' 15" = | | | |
| | | Loc. sin. 17° 31' 46" = 0.298891 | | | |
| | | Loc. cos. 34° 58' 40" = 0.917432 | | | |
| | | Loc. cos. 22° 18' 15" = 0.926476 | | | |
| | | Loc. tan. 34° 58' 40" = 0.844868 | | | |
| | | Loc. tan. 22° 18' 15" = 0.411376 | | | |
| | | 0.411376 = Loc. 22° 18' 15" | | | |
| | | Cor. C. = | | | |
| | | Cor. 34° 58' 40" = 0.88234 | | | |
| | | Bearing of reference object, N. 0° 08' 34" E. | | | |

APPROVAL

Office of the United States Surveyor General,

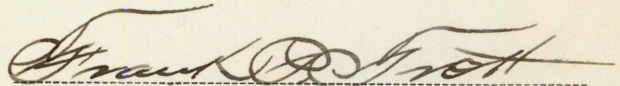
Phoenix, Arizona, August 2 , 1917

The foregoing field notes of Homestead Entry Survey No.

382

executed by R. P. A. Johnson, Surveyor-Draftsman,
under his special instructions, dated July 9, 1915, having
been critically examined, and the necessary corrections and explanations
made, the said field notes, and the surveys they describe, are hereby
approved.

[Forest Service Title.]



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.