U. S. DEPARTMENT OF AGRICULTURE
FOREST SERVICE

FIELD NOTES

OF
HOMESTEAD ENTRY SURVEY NO. 461

SITUATED IN THE SICHEAVES NATIONAL FOREST

ADMINISTRATIVE DISTRICT NO. 3

In Section 12, unsurveyed, Township 12 N., Range 17 E.

In Section 13, unsurveyed, Township 12 N., Range 17 E.

of the

Gila and Salt River Base & Meridian.

State of

ARIZONA

Applicants for listing: J. A. Farrell and Lewis W. Freeman,

Residence: Heber, Arizona

Application No. 210, dated June 18, 1910 and February 15, 1911

Application No. 411, dated November 11, 1912

List No. 3-904, dated December 12, 1910

List No. 5-2364, dated March 13, 1913

Applicant for survey: Lewis W. Freeman,

Residence: Heber, Arizona

H. R. No. 016617, dated February 5, 1912

H. R. No. 034129, dated January 13, 1914

Office: Land District Phoenix, Arizona

Survey executed by: R. F. A. Johnson, Surveyor - Draftsman

(Forest Service Title)

Under special instructions dated: April 17, 1916

Survey commenced: July 28, 1916

Survey completed: July 28, 1916


(VERB)
OATH OF ASSISTANTS

We hereby certify that we assisted

surveyor Draftsman

(P.O. Service Title)
in surveying all those

parts or portions of Homestead Entry Survey No. 1251, in the State of Arizona, which are represented in the following field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for Arizona.

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

Subscribed and sworn to before me this fourteenth day of
August, 1916.

__________________________________________
Chairman

__________________________________________
Chairman

OATH OF SURVEYOR

I, R.P.A. Johnson, Surveyor Draftsman

(P.O. Service Title)
do solemnly swear that, in strict conformity with the special instructions of the United States Surveyor General for Arizona, dated April 17, 1916, 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

Lot No. 3-3964, dated December 12, 1916 and
Lot No. 3-2364, dated March 13, 1916, for
the same to be known as Homestead Entry Survey No. 1251, situated within the Sitgreaves National Forest, in
unsurveyed Section 12, Township 12 N, Range 17 E, and
unsurveyed Section 13, Township 12 N, Range 17 E

of the Gila Platte, Boundary Line, 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 special instructions, and in the specific manner described in the field notes, and that the following are the original field notes of such survey.

DISTRICT OF COLUMBIA

CITY OF WASHINGTON

Subscribed and sworn to before me this 9th day of
March, 1917.

__________________________________________
Notary Public, D. C.
Homestead Entry Survey No. 451  
Sitgreaves National Forest  
State of Arizona

Applicants for listing: J. A. Farrell and Lewis W. Freeman; Applications No. 210 and 411, dated June 18, 1910, February 15, 1911 and November 11, 1912; List Nos. 3-904 and 3-2366, dated December 18, 1910 and March 13, 1913; H. E. Nos. 01667 and 024129; made in the Phoenix Land Office on February 5, 1918 and January 13, 1914 by Lewis W. Freeman.

Surveyed under special instructions from the Surveyor General for Arizona, dated April 17, 1916 and designated as Homestead Entry Survey No. 451.

Situated in what will probably be, when surveyed, Secs. 12 and 13, T. 12 N., R. 17 E., Gila and Salt River Base and Meridian, within the Sitgreaves National Forest, Arizona.


Survey commenced July 28, 1916 and executed with a Buff and Buff transit equipped with Smith solar attachment.

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

All distances are horizontal and were reduced from measurements made directly on the slope with a 500 link steel tape. The slope angles were determined with a clinometer.

July 28, 1916, a.m.

I observe the altitude of the sun for azimuth at cor. No. 4 of this survey, 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.
Chains
Lat. 34° 26' 30" N., Long. 110° 31' W., from special instructions from the Surveyor General.

Telescope Time Horizontal Vertical Angle Angle
Direct 8h. 21m. 36s. 87° 59' 00" 37° 46' 00"
Reversed 8h. 22m. 29s. 88° 29' 30" 37° 24' 30"

Bearing of reference object, N. 0° 02' 14" W.

I again observe the altitude of the sun for azimuth at same station. 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.

Telescope Time Horizontal Vertical Angle Angle
Direct 8h. 24m. 26s. 87° 33' 00" 38° 21' 30"
Reversed 8h. 25m. 20s. 86° 04' 30" 37° 59' 00"

Bearing of reference object, N. 0° 02' 58" W.

The mean of these is N. 0° 02' 36" W. and to the corresponding meridian all the courses of this survey are referred.

**BOUNDARIES OF CLAIM**

Beginning at cor. No. 1.
Deposit a sandstone 5 x 5 x 1 ins. marked with +, 16 ins. in the ground, over which set a sandstone 26 x 12 x 7 ins., chiseled + for the point and 1 - H E S 451 on SW. face; and raise a mound of stone 3 ft. base, 2 ft. high SW. of cor., whence:

A pinon, 12 ins. dia., b.s.a. 63° 26' E., 571
lks. dist., scribed H E S 451 + R T.

No other witnesses available. Fits impracticable.

Cor. to secs. 7, 12, 13 and 18, T. 12 N., R.s.
17 and 18 E., which is a post 4 x 4 x 20 ins.
above ground, in mound of stone, marked and
witnessed as described by the Surveyor General,
Homestead Entry Survey No. 451

Sitgreave National Forest

State of Arizona

Chains

Bears N. 87° 04' 03" E., 22.46 chs. dist., by traverse which appears at the end of these notes.

Cor. H. -2 of List 3-2364, which is a limestone 8 x 4 x 6 ins. above ground, marked and witnessed as described by the Forest Service, bears N. 11° 00' E., 82 lbs. dist. I destroy all trace of this list cor.

Lat. 34° 27' N., Long. 110° 30' 27" W., from special instructions from the Surveyor General, and later verified.

Mag. decl. at 9:00 a.m., 14° 20' E. Mean mag. decl., 14° 17' E.

Thence S. 11° 25' W.

Ascend 40 ft. to ridge in open.

6.60 Top ascent. Descend 40 ft. in open to draw.

16.90 Foot descent. Thence across open level draw, drains NW.

21.30 Leave open level draw and ascend 70 ft. in open to point of ridge.

38.20 Top ridge bears NW. and SE. Descend 50 ft. in open to arroyo.

43.25 Arroyo, 10 lbs. wide, 1 ft. deep, course NW. Ascend 60 ft. in open to cor.

47.17 To cor. No. 2.

Identical with cor. H. -2 of List 3-2364, which is a sandstone 10 x 3 x 6 ins. above ground, marked and witnessed as described by the Forest Service. I destroy all trace of this list cor. Deposit a sandstone 6 x 4 x 2 ins. marked with a + 18 ins. in the ground, over which set a sandstone 28 x 12 x 6 ins., chiseled for the point and 2 - H E S 451 on NW. face; and raise a mound of stone 3 ft. base, 2 ft. high NW. of cor., whence:

A juniper, 18 ins. dia., bears S. 28° 48' E.
HOMESTEAD ENTRY SURVEY NO. 451
SITGREAVES NATIONAL FOREST
STATE OF ARIZONA

Chains
313 lks. dist., scribed 2 H E S 451 + B T.
A juniper, 18 ins. dia., bears S. 79° 50' W.,
187 lks. dist., scribed 2 H E S 451 + B T.

Thence N. 80° 40' W.

Descend 90 ft. along NW. slope in open to arroyo.

13.70 Arroyo, 10 lks. wide, 1 ft. deep, course NW.

15.40 To cor. No. 3.

At cor. of fence. Fence bears N. 60° W. and S. 35° E.
Identical with cor. H-4 of Lists 3-2364 and 3-904,
which is a limestone 12 x 8 x 10 ins. above ground,
marked and witnessed as described by the Forest Ser-
vice. I destroy all trace of this list cor. Deposit
a sandstone 5 x 5 x 3 ins. marked with a + 10 ins. in
the ground, over which set a sandstone 20 x 16 x 5 ins.
(no larger stone available), chiseled + for the point
and 3 - H E S 451 on N. face; dig pits 24 x 24 x 12
ins. crosswise on claim lines 3 ft. dist.; and raise
a mound of earth 4 ft. base, 2 ft. high, 3-1/2 ft.
dist. N. of cor., whence:

A juniper, 4 ins. dia., bears S. 35° 35' E.,
73 lks. dist., scribed 3 H E S 451 + B T.
A juniper, 6 ins. dia., bears N. 82° 45' W.,
61 lks. dist., scribed 3 H E S 451 + B T.

Thence S. 84° 35' W.

Leave List 3-2364 and enter List 3-904. Ascend
10 ft. in brush to low ridge.

1.50 Top ascent. Descend 10 ft. to wash.

5.75 Road, bears NW. and SW.

6.40 Enter Pearce Wash, banks 3 ft. high, course NW.

12.50 Leave Pearce Wash, banks 3 ft. high, course NW.

Ascend 10 ft. in open to cor.

13.00 Telephone line, bears N. and S.
17.05  To cor. No. 4

Identical with cor.H-3 of List 3-304, which is a sandstone 12 x 7 x 17 ins. above ground, marked and witnessed as described by the Forest Service. I destroy all trace of this list cor. Deposit a sandstone 5 x 5 x 2 ins. marked with a + 15 ins. in the ground, over which set a sandstone 25 x 9 x 8 ins., chiseled + for the point and 4 - H E S 451 on NE. face; and raise a mound of stone 3 ft. base, 2 ft. high. NE. of cor., whence:

A yellow pine, 22 ins. dia., bears N. 10° 36' E., 130 lks. dist., scribed 4 H E S 451 T.B T.

A yellow pine, 18 ins. dia., bears N. 71° 47' E., 202 lks. dist., scribed 4 H E S 451 + B T.

Cor. No. 7 of H. E. S. 465, which is a sandstone boulder in place, showing 5 x 4 x 1 ft. above ground, chiseled + on top and 7 - H E S 465 on SW. face, with mound of stone 3 ft. base, 2 ft. high, SW. of cor., bears S. 71° 09' E., 12.69 chs. dist., by direct measurement.

Thence N. 11° 33' E.

Across open draw.

2.11  Arroyo, 18 lks. wide, 1 ft. deep, course NE.

2.71  Road, bears N. 47° E. and S. 47° W. Ascend 40 ft. in open to ridge.

11.10  Top ridge, bears E. and W. Descend 30 ft. to arroyo.

14.40  Arroyo, 10 lks. wide, 1 ft. deep, course E. Ascend 30 ft. to ridge.

16.60  Ridge, bears E. and W. Descend 70 ft. to wash.

27.70  Road, bears N. 30° W. and S. 30° E.
HOMESTEAD ENTRY SURVEY NO. 461
SITGREAVES NATIONAL FOREST
STATE OF ARIZONA

Chains

29.05 Fence, bears S. 35° E. and N. 35° W. Telephone line
     bears S. 14° E. and N. 14° W.

30.00 Pearce Wash, 135 lbs. wide, 2 ft. deep, course NW.

31.55 Enter cultivated land, bears NW. and SE.

40.60 Pearce Wash, 130 lbs. wide, 2 ft. deep, course E.

53.40 Fence, bears E. 50° E. and S. 50° W.

54.20 Pearce Wash, 100 lbs. wide, 3 ft. deep, course NW.

55.45 To cor. No. 5.

Deposit a sandstone 5 x 4 x 2 ins. marked with a +
14 ins. in the ground, over which set a sandstone
24 x 8 x 7 ins., chiseled + for the point and 5 -
H E S 461 on SE. face; and raise a mound of stone 3
ft. base, 2 ft. high SE. of cor., whence:

A yellow pine, 30 ins. dia., bears S. 55° 10' W.
106 lbs. dist., scribed S H E S 461 + B T.

A yellow pine, 36 ins. dia., bears E. 30° 07' E.
127 lbs. dist., scribed S H E S 461 + B T.

Cor. H-2 of List 3-906 is not found after
careful search.

Cor. H-1 of Lists 3-906 and 3-2364, which is a
limestone 11 x 7 x 20 ins. above ground, mark-
ed and witnessed as described by the Forest
Service, bears S. 70° 45' E., 16.75 chs. dist.
I destroy all trace of this list cor.

Thence S. 77° 52' E.

Ascend 30 ft. to cor. in open.

0.95 Fence cor., fence bears SSW. and ESE.

27.00 Fence, bears E. and W.

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

AREA

Total Area - - - - - - - - - - - - - - - - 169.58 acres

IMPROVEMENTS

The improvements made upon this claim and belonging to
the claimant, consist of the following:
Chains

A frame house, 30 x 20 ft., the long side of which bears N. and S. and the SW. cor. of which bears N. 13° 45' E., 24.00 chs. dist. from cor. No. 4.

Value ----------------- $250.00

A frame barn, 40 x 18 ft., the long side of which bears N. and S. and the SW. cor. of which bears N. 22° E., 21.25 chs. dist. from cor. No. 4.

Value ----------------- $200.00

A frame outhouse, 10 x 10 ft., the SE. cor. of which bears N. 26° 50' E., 22.60 chs. dist. from cor. No. 4.

Value ----------------- $30.00

There is approximately one mile of wire fence.

Value ----------------- $100.00

A shallow well bears N. 16° 10' E., 26.40 chs. dist. from cor. No. 4.

Value ----------------- $30.00

DESCRIPTION

This claim lies on Pearce Wash at an elevation of 6300 ft. The general slope is to the N. The tract consists of level draw bottom in East half and gradual slopes in West half.

The timber consists of a few scattered juniper and pinon along S. and E. boundaries.

The soil of the bottom land is a sandy loam of good depth and produces good crops. The soil on slopes is shallow and gravelly and has never been used for agricultural purposes.

There is no water for irrigation. Water for domestic use is obtained from a shallow well.

This land is not known to be mineralized.
There are no conflicting or adjoining claims. Miles Ranger Station lies approximately 10.00 chs. North of claim and H. E. S. No. 465 lies approximately 4.00 chs. to South.

Heber, Arizona, the nearest post office, is 8 miles to West and Holbrook, Arizona, the nearest railroad point, is 40 miles—Both are reached by good wagon roads.

**TR A V E R S E**

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<thead>
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<th>Cor.</th>
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<th>S</th>
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Error in Lat. and Dep.

Closing error, 1 : 7440.


[Signature]

Surveyor - Draftsman
HOMESTEAD ENTRY SURVEY NO. 461

SITGREAVES NATIONAL FOREST

STATE OF ARIZONA

Chains

Direct Solar, July 28, 1916, at Cor. No. 4.

Lat. 34° 26' 30" N., Long. 110° 31' W., Elev. 6300 ft.

Telescope  Time  Horizontal  Vertical  Pos.
           Angle  Angle  Sun

Direct  Sh. 24m. 26s.  87° 33' 00"  38° 21' 30"

Reversed  Sh. 25m. 20s.  88° 04' 30"  37° 59' 00" 40

Sh. 24m. 23s.  87° 46' 26"  38° 10' 15" 01 00"

Decl., 18° 58' 40" N.

\[
\cos Q = \frac{\sin 18° 58' 40"}{\cos 34° 26' 30" \times \cos 38° 09' 15"} \times \tan 34° 26' 30" + \tan 38° 09' 15"
\]

log. sin. 18° 58' 40" = 9.512152
log. cos. 34° 26' 30" = 9.916297
log. cos. 38° 09' 15" = 9.895615

\[
9.709839 = \log Q = \log 50146
9.721404 = \log \tan 34° 26' 30" = 53877
9.885217 = \log \tan 38° 09' 15"
\]

\[
\cos Q = 0.03731\]

Q = 87° 51' 43"/n

Bearing of reference object, N. 0° 02' 56" W.

(2)

Telescope  Time  Horizontal  Vertical  Pos.
           Angle  Angle  Sun

Direct  Sh. 21m. 36s.  87° 59' 00"  37° 46' 00"

Reversed  Sh. 22m. 28s.  88° 29' 30"  37° 24' 30"

Sh. 22m. 03s.  88° 14' 15"  37° 32' 15"

Decl., 18° 58' 40" N.

\[
\cos Q = \frac{\sin 18° 58' 40"}{\cos 34° 26' 30" \times \cos 37° 34' 15"} \times \tan 34° 26' 30" + \tan 37° 34' 15"
\]

log. sin. 18° 58' 40" = +9.518152
log. cos. 34° 26' 30" = -9.916297
log. cos. 37° 34' 15" = -9.899054

\[
9.699801 = \log Q = 49751
9.836997 = \log 52857
9.722773
\]

\[
\cos Q = 0.03606\]

Q = 88° 16' 33"/n

Bearing of reference object, N. 0° 02' 14" W.
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<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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Closing error 1:7440

Cor. No. 1 to Cor. of Secs. T. 18, 12 and 13, E. 12 E., Res. 17 and 16 E.

1-TP     N. 71° 02' E. | 7.16  | 2.23    | 6.77        | log. 22.45  | = 1.351216 |
TP-TP    S. 79° 52' E. | 4.99  | 1.22    | 4.74        | log. 1.15   | = 10.060698 |
TP-Sec. Cor. N. 69° 46' E. | 10.64 | 10.64  | log. tan.87°04'02" | = 11.280616 |
|         | 2.22    | 1.22    | 22.45       | log. 22.45  | = 1.351216 |
|         | 1.15    | 9.999431 |

TOTAL AREAS: 169.562 Acres.
APPROVAL

Office of the United States Surveyor General,
Phoenix, Arizona, May 22, 1918

The foregoing field notes of Homestead Entry Survey No.

451

executed by R. C. A. Johnson, Surveyor, Draftsman
under his special instructions, dated April 17, 1918, 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 F. TROTT
U. S. Surveyor General.