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U. S. DEPARTMENT OF AGRICULTURE
FOREST SERVICE

FIELD NOTES

OF

HOMESTEAD ENTRY SURVEY NO.

459

SITUATED IN THE

NATIONAL FOREST

Marty 5.

ADMINISTRATIVE DISTRICT NO.

In Section , surveyed, Township , Range

of the

Meridian.

State of

Applicant for listing

Residence

Application No. , dated , 19

List No. , dated , 19

Applicant for survey

Residence

H. E. No. , dated , 19

Land Office

Survey executed by

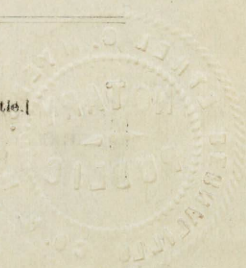
[Forest Service Title.]

Under special instructions dated , 19

Survey commenced , 19

Survey completed , 19

Under Acts of



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OATH OF ASSISTANTS

We hereby certify that we assisted
Surveyor - Forest Service,
[Forest Service Title.]

Frank D. Yost,
in surveying all those

parts or portions of Homestead Entry Survey No. **459**, 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.

H. E. Brandebury
Chainman,

N. N. Longfellow
Chainman,

Subscribed and sworn to before me this **6th** day of

August, 19 **19**.

Frank D. Yost
Surveyor - Forest Service,

OATH OF SURVEYOR

I, **Frank D. Yost,** Surveyor - Forest Service,
[Forest Service Title.]

do solemnly swear that, in strict conformity with the special instructions of the United States Surveyor General for **ARIZONA**, dated **April 17**, 19**18**, 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 **patent**, No. **3-2384**, dated **March 13, 1913**, for the same to be known as Homestead Entry Survey No. **459**, situated within the **SITGREAVES** National Forest, in --surveyed Section **19**, Township **13 N.**, Range **13 E.**, and surveyed Section --, Township --, Range --,

of the **GILA AND SALT RIVER BASE & 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.

Frank D. Yost
Surveyor - Forest Service,
[Forest Service Title.]

Subscribed and sworn to before me this **fifth** day of

November, 19 **19**.

Echel G. Myers
Notary Public,



8-2349

My commission expires March 17, 1921.

SITGREAVES NATIONAL FOREST

STATE OF ARIZONA.

Chains Applicant for listing, Hugh Barr; Application No. 416, dated November 30, 1912; List No. 3-2384, dated March 13, 1913; H. E. 02414 made in the Phoenix Land Office on July 2, 1914 by Hugh Barr.

Surveyed under special instructions from the Surveyor General for Arizona, dated April 17, 1916 and designated as Homestead Entry Survey No. 459.

Situated in Sec. 19, T. 13 N., R. 13 E., Gila and Salt River Base and Meridian, Sitgreaves National Forest, Arizona.

Surveyed under the Acts of June 11, 1906 and March 4, 1915, and July 24, 1919.

Survey commenced June 12, 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.

June 14, 1916.
I observe the altitude of the sun for azimuth at Cor. No. 37 of this survey, hereinafter described. The reading on the reference object is set at zero, and the sun was observed in the upper left and lower right quadrants of the field. My watch is set for local mean time.

Lat. 34° 30' 46" N. Long. 111° 02' 30" W. from the special instructions from the Surveyor General.

Chains	Telescope	Time	Horizontal Angle	Vertical Angle
	Direct	4h. 01m. 02s.	84° 59' 00"	36° 49' 00"
	Reverse	4h. 02m. 09s.	85° 28' 00"	37° 05' 00"

Bearing of reference object, N. 0° 00' 28" W.

June 15, 1916.

I again observe the altitude of the sun for azimuth at same station. The reading on 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 Angle	Vertical Angle
Direct	8h. 10m. 16s.	86° 45' 30"	39° 10' 00"
Reverse	8h. 11m. 10s.	86° 14' 00"	38° 49' 00"

Bearing of reference object, N. 0° 02' 12" W.

The mean of these is N. 0° 01' 20" W., and to the corresponding meridian, all courses of this survey are referred.

RETRACEMENTS

June 12, 1916.

From 1/4 sec. cor. bet. secs. 18 and 19, T. 13 N., R. 13 E., which is a sandstone 10 x 6 x 6 ins. above ground

marked 1/4 on N. face with mound of stone 3 ft. base, 2 ft. high, N. of cor., whence:

A yellow pine, 24 ins. dia. bears S. 55° 35' E.,

100 lks. dist., marked 1/4 S B T.

(original witness).

A yellow pine, 18 ins. dia. bears N. 70° 08' W.,

131 lks. dist., marked 1/4 S 18 B T.

(new witness).

(Record S 60° E)

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STATE OF ARIZONA

Chains

Thence West.

On a random line bet. secs. 18 and 19.

46.77

Fall 23 lks. south of cor. for secs. 18, 19, 13 and 24, T. 13 N., Rs. 12 and 13 E., which is a sandstone 14 x 6 x 6 ins. above ground, marked and witnessed as described by Surveyor General.

Return course S. 89° 43' E., 46.77 chs.

Note: The line was rechaind to verify distance.

June 12, 1916.

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

August 2, 1919.

In accordance with letter from the Surveyor General, dated January 14, 1918, I, Frank D. Yost, Surveyor Forest Service, together with Harold E. Brandebury, and Harold H. Longfellow, Assistants, return to this claim for the purpose of making necessary retracement of the remaining boundaries of Sec. 19, T. 13 N., R. 13 E., Gila and Salt River, Base and Meridian.

The retracement was executed with a Buff and Buff transit No. 10019, 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.

The courses of this retracement were deflected from the meridian established by me on July 30, 1919, by direct Solar obsn. at the 1/4 cor. bet. Secs. 18 and 19, T. 13 N., R. 13 E. in connection with H. E. S. 457.

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STATE OF ARIZONA

Chains

From the cor. for Secs. 18, 19, 13 and 24, heretofore described.

Thence South,

Retracing line bet. secs. 19 and 24, N/2.

40.37

Fall 15 lks. West of the 1/4 cor., a sandstone 8 x 3 x 8 ins. above ground, marked 1/4 on West face, with mound of stone around cor., whence:

A pine 26 ins. dia., brs. S. 87° 10' W.,

96 lks. dist. (Field notes from

Surveyor General record "pine 18

ins. dia., brs. S. 86° W., 93 lks.

dist.") Marked 1/4 S B T

A pine 24 ins. dia., brs. N. 55° 31' E.,

86 lks. dist. (Field notes from

Surveyor General record "pine 18

ins. dia., brs. N. 65° E., 85 lks.

dist.") marked 1/4 S B T

True line is S. 0° 13' E., 40.37 chs.

Frank D. Yost, Surveyor-Forest Service

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

June 14, 1916.

Thence South,

Retracing line bet. Secs. 19 and 24, S/2

40.35

Fall 29 lks. W. of cor. to Secs. 19, 24, 25 and 30, a sandstone 6 x 4 x 8 ins. above ground, marked and witnessed as described by the Surveyor General.

True line is S. 0° 25' E., 40.35 chs.

R. P. A. Johnson,

Surveyor-Draftsman.

SITGREAVES NATIONAL FOREST

STATE OF ARIZONA

Chains

Frank D. Yost, Surveyor-Forest Service,
August 2, 1919.

From cor. to Secs. 19, 24, 25 and 30, heretofore de-
scribed.

Thence East (Record course S. 89° 50' E.)

On a random line bet. secs. 19 and 30, W/2.

46.75 Fall 43 lks. N. of 1/4 sec. cor., a sandstone 7 x 12 x 4
ins. above ground, marked and witnessed as described
by the Surveyor General.

True line is S. 89° 28' E., 46.75 chs.

Thence East (Record course S. 89° 50' E.)

On random line bet. Secs. 19 and 30, E/2

40.33 Fall 3 lks. S. of cor. to Secs. 19, 20, 29 and 30, a
sandstone 7 x 12 x 5 ins. above ground, marked and wit-
nessed as described by the Surveyor General.

True line is N. 89° 57' E., 40.33 chs.

Thence North (Record Course, N. 0° 03' W.)

On a random line bet. Secs. 19 and 20, S/2

40.52 Fall 13 lks. West of 1/4 sec. cor., a sandstone 6 x 12
x 4 ins. above ground, marked and witnessed as describ-
ed by the Surveyor General.

True line is N. 0° 11' E., 40.52 chs.

Thence North (Record course N. 0° 03' W.)

On random line bet. Secs. 19 and 20, N/2.

40.34 Fall 5 lks. East of the Cor. to Secs. 17, 18, 19 and
20, a sandstone 6 x 12 x 5 ins. above ground, marked
and witnessed as described by the Surveyor General.

True line is N. 0° 04' W., 40.34 chs.

Thence West (Record course N. 89° 40' W.)

On random line bet. Secs. 18 and 19, E/2.

40.56 Fall 12 lks. S. of 1/4 cor., heretofore described.

True line is N. 89° 50' W., 40.56 chs.

Frank D. Yost, Surveyor-
Forest Service,
August 2, 1919.

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STATE OF ARIZONA

Chains

BOUNDARIES OF CLAIM

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

June 14, 1916.

Beginning at cor. No. 1 and C C on line bet. secs. 19 & 24.

Deposit a sandstone 5 x 3 x 2 ins., marked with a + 22 ins. in the ground, over which set a sandstone 32 x 8 x 4 ins. chiseled + for the point, 1 H E S 459 on ENE. face; and C C on ESE. face; raise a mound of stone 3 ft. base, 2 ft. high, ESE. of cor., whence:

A yellow pine, 14 ins. dia., brs. S. 41° 45' W.,
11 lks. dist., scribed 1 H E S 459 + B T

A yellow pine, 14 ins. dia., brs. S. 70° 58' E.,
50 lks. dist., scribed 1 H E S 459 + B T

Cor. H-6 of the list survey, which is a limestone 10 x 3 x 6 ins. above ground, marked and witnessed as described by the Forest Service, brs. N. 50° 26' E., 1.57 chs. dist. I destroy all trace of this list cor.

Cor. for secs. 19, 24, 25 and 30, heretofore described bears S. 0° 25' E., 33.16 chs. dist.

1/4 sec. cor. bet. secs. 19 and 24, heretofore described bears N. 0° 25' W., 7.19 chs. dist.

Lat. 34° 30' 17" N. Long. 111° 02' 45" W. from special instructions of Surveyor General, and later verified.

Mag. decl. at 4:00 p.m., 14° 20' E. Mean Mag. decl., 14° 22' E.

Thence N. 14° 53' E.

Across open draw, drains NNE.

2.00 Leave draw and asc. 10 ft. along edge of timber on E. slope.

6.80 Fence brs. N. 5° W. and S. 5° E. Top ascent, des. 10 ft. to bottom.

9.00 Foot of descent. Thence over open level land.

15.00 Fence bears N. 20° E. and S. 20° W. Leave bottom and ascend 30 ft. in scattered timber to cor.

21.44 Cor. No. 2.

Deposit a limestone 4 x 2 x 2 ins., marked with a + 16 ins. in the ground, over which set a limestone 26 x 6 x 4 ins. chiseled + for the point and 2 H E S 459 on E. face; raise a mound of stone 3 ft. base, 2 ft. high E. of cor., whence:

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STATE OF ARIZONA.

Chains	<p>A yellow pine, 38 ins. dia. bears S. 22° 49' E. 22 lks. dist. scribed 2 H E S 459 + B T.</p> <p>A yellow pine, 30 ins. dia. bears N. 81° 34' W. 11 lks. dist. scribed 2 H E S 459 + B T.</p> <p>Cor. H-5 of the list survey, which is a lime- stone 12 x 2 x 6 ins. above ground, marked and witnessed as described by the Forest Service bears S. 17° W. 11.70 chs. dist. I destroy all trace of this list cor.</p> <p>Cor. H-4 of the list survey, which is a lime- stone 10 x 4 x 4 ins. above ground, marked and witnessed as described by the Forest Service bears S. 15° E. 1.30 chs. dist. I destroy all trace of this list cor.</p> <p>Thence N. 34° 51' E.</p> <p>Descend 35 ft. in open to draw. Fence on line.</p> <p>1.00 Cor. H-3 of the list survey, which is a limestone 6 x 4 x 3 ins. above ground, marked and witnessed as de- scribed by the Forest Service. I destroy all trace of this list cor.</p> <p>1.50 Foot descent. Thence across open draw.</p> <p>6.70 Leave draw and ascend 10 ft. along E. slope to cor.</p> <p>14.62 Cor. H-2 of the list survey, which is a limestone 12 x 4 x 6 ins. above ground, marked and witnessed as de- scribed by the Forest Service. I destroy all trace of this list cor. Fence bears N. 17° E. Leave fence.</p> <p>15.60 Cor. No. 3. Deposit broken glass 14 ins. in the ground, over which set a limestone 24 x 12 x 6 ins. chiseled + for the point and 3 H E S 459 on NE. face; raise a mound of stone 3 ft. base, 2 ft. high, NE. of cor., whence:</p>
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Chains

A yellow pine, 30 ins. dia. bears S. 40° 49' E.

54 lks. dist. scribed 3 H E S 459 + B T.

A yellow pine, 30 ins. dia. bears S. 26° W.

91 lks. dist. scribed 3 H E S 459 + B T.

Thence N. 30° 02' W.

Ascend 30 ft. in open to ridge.

.35 Fence bears N. 17° E. and S. 17° W.

1.80 Top ascent. Descend 20 ft. in edge of timber to draw.

4.20 Fence cor. Fence bears N. 75° E. and N. 10° E.

4.80 Foot descent. Thence across open draw; drains E.

5.90 Cor. No. 4.

Point for cor. falls on limestone outcrop 20 x 18 x 4

ins. above ground, I chisel a + at the point and

4 H E S 459 to SE. and raise a mound of stone 3 ft.

base, 2 ft. high, SE. of cor., whence:

A yellow pine, 24 ins. dia. bears S. 8° 15' E.,

20 lks. dist. scribed 4 H E S 459 + B T.

A yellow pine, 20 ins. dia. bears S. 68° 06' E.

35 lks. dist. scribed 4 H E S 459 + B T.

Thence S. 84° 50' E.

Along N. side of draw, descending 25 ft. to cor.

3.69 Cor. No. 5.

Deposit broken glass 14 ins. in the ground, over

which set a sandstone 24 x 16 x 8 ins. chiseled +

for the point and 5 H E S 459 on S. face; and raise

a mound of stone 3 ft. base, 2 ft. high, S. of cor.,

whence:

A yellow pine, 14 ins. dia. bears N. 43° 14' E.

23 lks. dist. scribed 5 H E S 459 + B T.

A yellow pine, 18 ins. dia. bears N. 8° 28' W.

27 lks. dist. scribed 5 H E S 459 + B T.

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STATE OF ARIZONA.

Chains

Cor. H-1 of the list survey, which is a limestone 14 x 5 x 8 ins. above ground, marked and witnessed as described by the Forest Service bears S. 66° 47' W. 113 lks. dist. I destroy all trace of this list cor.

Cor. H-13 of the list survey, which is a limestone 12 x 4 x 8 ins. above ground, marked and witnessed as described by the Forest Service bears N. 50° 32' E. 106 lks. dist. I destroy all trace of this list cor.

Thence N. 15° 18' E.

Along foot of east slope in edge of timber.

6.30 Fence cor. Fence bears N. 75° E. and S. 10° E.

6.32 Cor. H-12 of the list survey, which is a limestone 12 x 3 x 8 ins. above ground, marked and witnessed as described by the Forest Service. I destroy all trace of this list cor.

6.40 Trail bears ENE. and SW.

9.40 Cor. No. 6 and C. C. on line bet. secs. 18 and 19.

Deposit a sandstone 6 x 3 x 1 ins. marked with a + 14 ins. in the ground, over which set a sandstone 24 x 8 x 8 ins. chiseled + for the point, 6 H E S 459 on SE., and C C on SSW. faces raise a mound of stone 3 ft. base, 2 ft. high, SSW. of cor., whence:

A yellow pine, 36 ins. dia. bears S. 32° W.

11 lks. dist. scribed 6 H E S 459 + B T.

A yellow pine, 26 ins. dia. bears N. 49° 10' W.

19 lks. dist. scribed 6 H E S 459 + B T.

Cor. for secs. 13, 18, 19 and 24, heretofore described bears N. 89° 43' W. 17.85 chs. dist.

1/4 sec. cor. bet. secs. 18 and 19, heretofore described bears S. 89° 43' E. 28.92 chs. dist.

Chains Thence S. 89° 43' E.
 Across open draw, drains NNE. along line bet. secs.
 18 and 19.
 3.18 Cor. No. 7 and C C on line bet. secs. 18 and 19.
 Deposit a limestone 6 x 6 x 3 ins. marked with a +
 14 ins. in the ground, over which set a limestone
 24 x 10 x 8 ins. chiseled + for the point and
 7 H E S 459 on SW., C C on SSW. faces; raise a mound
 of stone 3 ft. base, 2 ft. high, SSW. of cor., whence:
 A yellow pine, 16 ins. dia. bears S. 84° 37' E.
 109 lks. dist. scribed 7 H E S 459 + B T.
 A yellow pine, 26 ins. dia. bears S. 24° 31' E.
 126 lks. dist. scribed 7 H E S 459 + B T.
 Cor. for secs. 13, 18, 19 and 24; heretofore de-
 scribed bears N. 89° 43' W. 21.03 chs. dist.
 1/4 sec. cor. bet. secs. 18 and 19, heretofore de-
 scribed bears S. 89° 43' E. 25.74 chs. dist.
 Cor. No. 1 H. E. S. 457 which is a limestone 9 x
 4 x 10 ins. above ground, marked 1 H E S 457
 on N. and C C on ENE. faces with mound of stone
 N. of cor. bears S. 89° 43' E. 8.45 chs. dist.
 Cor. H-11 of the list survey, which is a limestone
 16 x 3 x 10 ins. above ground, marked and wit-
 nessed as described by the Forest Service bears
 S. 17° 15' W. 275 lks.. I destroy all trace of
 this list cor.

Thence S. 14° 44' W.
 Along bottom and edge of timber.
 1.70 Trail bears N. 20° E. and S. 75° W.
 2.75 Fence cor. Fence bears S. 85° W. and along line.
 7.47 Fence cor. Fence bears S. 12° E. Leave fence.
 14.16 Cor. No. 8.
 Identical with cor. H-10 of the list survey, which is a

SITGREAVES NATIONAL FOREST

STATE OF ARIZONA.

Chains limestone 12 x 4 x 8 ins. above ground, marked and witnessed as described by the Forest Service. I destroy all trace of this list cor.
 Deposit a sandstone 2 x 2 x 2 ins. marked with a + 14 ins. in the ground, over which set a sandstone 24 x 14 x 8 ins. chiseled + for the point and 8 H E S 459 on W. face; raise a mound of stone 3 ft. base, 2 ft. high, W. of cor., whence:
 A yellow pine, 36 ins. dia. bears S. 4° 57' E.
 19 lks. dist. scribed 8 H E S. 459 + B T.
 A yellow pine, 22 ins. dia. bears N. 52° 20' E.
 31 lks. dist. scribed 8 H E S 459 + B T.
 June 14, 1916.

June 15, 1916.
 Thence S. 28° 57' W.
 Along fence, edge of timber and East side of draw, drains NNE.

16.60 Fence cor. Fence bears N. 60° W. and along line.

27.48 Cor. No. 9.
 Identical with cor. H-8 of the list survey, which is a limestone 12 x 4 x 6 ins. above ground, marked and witnessed as described by the Forest Service. I destroy all trace of this list cor.
 Deposit a broken glass 14 ins. in the ground, over which set a sandstone 24 x 8 x 5 ins. chiseled + for the point and 9 H E S 459 on W. face; raise a mound of stone 3 ft. base, 2 ft. high, W. of cor., whence:
 A yellow pine, 36 ins. dia. bears N. 47° 03' E.
 54 lks. dist. scribed 9 H E S 459 + B T.
 A yellow pine, 24 ins. dia. bears N. 85° 22' E.
 36 lks. dist. scribed 9 H E S 459 + B T.

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STATE OF ARIZONA.

Chains

Cor. H-9 of the list survey, which is a limestone 12 x 4 x 6 ins. above ground, marked and witnessed as described by the Forest Service bears N. 26° 52' E. 10.10 chs. dist. I destroy all trace of this list cor.

Thence S. 3° 07' W.

Along edge of bottom and timber fence on line.

9.00 Cor. H-7 of the list survey, which is a limestone 14 x 4 x 8 ins. above ground, marked and witnessed as described by the Forest Service. I destroy all trace of this list cor.

9.02 Fence Cor. Fence bears N. 81° W. Leave fence.

11.02 Cor. No. 10.

Deposit a limestone 3 x 2 x 1 ins., marked with a + 16 ins. in the ground, over which set a limestone 26 x 12 x 6 ins. chiseled + for the point and 10 H E S 459 on NW. face; raise a mound of stone 3 ft. base, 2 ft.

high NW. of cor., whence:

A yellow pine, 16 ins. dia. bears N. 33° 51' W.

42 lks. dist. scribed 10 H E S 459 + B T.

A yellow pine, 10 ins. dia. bears N. 89° 26' W.

11 lks. dist. scribed 10 H E S 459 + B T.

Thence N. 67° 51' W.

Across open draw, drains NNE.

2.80 Fence bears NNE. and SSW.

3.66 Cor. No. 1 the place of beginning.

AREA

Total area - - - - - 15.87 acres.

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STATE OF ARIZONA.

Chains

IMPROVEMENTS

The improvements made upon this claim and belonging to the applicant consist of the following:

A log house, 22 x 18 ft. the long side of which bears E. and W. and NE. cor. of which bears S. 2° 45' W. 1.03 chs. dist. from cor. No. 5.

Value - - - - - \$150.00

A log. chicken house 10 x 8 ft., the long side of which bears E. and W. and NW. cor. of which bears S. 13° 47' W. 2.00 chs. dist. from cor. No. 5.

Value - - - - - \$ 30.00

A log hay shed 18 x 18 ft., the SE. cor. of which bears S. 56° 47' W. 1.98 chs. dist. from cor. No. 5.

Value - - - - - \$100.00

There is approximately 1-1/2 miles of wire fence.

Value - - - - - \$150.00

DESCRIPTION

This claim is situated in a long narrow open draw, tributary to Willow Creek, and lies at an elevation of 7,000 ft.

Heavily timbered flat top ridges lie to E. and W. The general slope is to the N.

The timber consists of a scattering stand of yellow pine along NW. boundary line.

The soil in bottom is a rich black loam of good depth and supporting good crops.

The slopes are steep, rocky and non-agricultural.

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

Approximately six acres are in cultivation.

I saw no indication of mineral upon this claim.

SITGREAVES NATIONAL FOREST

STATE OF ARIZONA.

Chains

CONFLICTS AND ADJOINING CLAIMS.

There are no conflicting or adjoining claims. H. E. S. 457 of George Wiggins is approximately 1/8 of a mile to the NE.

Winslow, Arizona, the nearest post office, commercial center, and railroad point is approximately 51 miles distant, 5 miles of which is rough trail, 11 miles is fair wagon road and 35 miles is good wagon road.

Some explanation of change from testing bds. might be advisable

TRAVERSE

Cor.	Course	Dist.	N.	S.	E.	W.	
1-2	N. 14° 53' E.	21.44	20.72		5.51		
2-3	N. 34° 51' E.	15.60	12.80		8.91		
3-4	N. 30° 02' W.	5.90	5.11			2.95	
4-5	S. 84° 50' E.	3.69		.33	3.68		
5-6	N. 15° 18' E.	9.40	9.07		2.48		
6-7	S. 89° 43' E.	3.18		.02	3.18		
7-8	S. 14° 44' W.	14.16		13.69		3.60	
8-9	S. 28° 57' W.	27.48		24.05		13.30	
9-10	S. 3° 07' W.	11.02		11.00		.60	
10-1	N. 67° 51' W.	3.66	1.38			3.39	
			115.53	49.08	49.09	23.76	23.84
					49.08		23.76
Error in lat. and dep.					0.01		0.08

Closing error, 1:1433.

Survey completed August 2, 1919.

Note: The changes made in this survey were for the purpose of simplifying the claim boundaries by eliminating unnecessary corners and also to include improvements belonging to the claimant.

R. P. Johnson

Surveyor - Draftsman.

Frank J. East

Surveyor - Forest Service

SITGREAVES NATIONAL FOREST

STATE OF ARIZONA

Chains

Direct Solar, June 15, 1916 at Cor. No. 7, H. E. S.

459 of Hugh Barr.

Lat. 34° 30' 30" N. Long. 111° 02' 30" W. Elevation
7000 ft.

Telescope	Time	Horizontal Angle	Vertical Angle	Pos. Sun
Direct	8h. 10m. 16s.	86° 45' 30"	39° 10' 00"	+°
Reverse	8h. 11m. 10s.	86° 14' 00"	38° 49' 00"	+°
	8h. 10m. 43s. ✓	86° 29' 45" ✓	38° 59' 30" ✓ 56" ✓	
			38° 58' 34" ✓	

Decl. 23° 19' 22" ✓

$$\text{Cos. } Q. = \frac{\sin. 23^\circ 19' 22''}{\text{Cos. } 34^\circ 30' 30'' \times \text{cos. } 38^\circ 58' 34''} -$$

$$\tan. 34^\circ 30' 30'' \times \tan. 38^\circ 58' 34''$$

$$\begin{aligned} \log. \sin. 23^\circ 19' 22'' &= 9.597597 \checkmark \\ \log. \cos. 34^\circ 30' 30'' &= 9.915950 \checkmark \\ \log. \cos. 38^\circ 58' 34'' &= 9.890649 \checkmark \\ &\underline{9.790998} = \log. \quad .61801 \checkmark \end{aligned}$$

$$\begin{aligned} \log. \tan. 34^\circ 30' 30'' &= 9.837270 \checkmark \\ \log. \tan. 38^\circ 58' 34'' &= 9.907999 \checkmark \\ &\underline{9.745269} = \log. \quad .55625 \checkmark \end{aligned}$$

$$\text{Cos. } Q. = .06176 \checkmark$$

$$Q. = 86^\circ 27' 33'' \checkmark$$

Bearing of reference object, N. 0° 02' 12" W. ✓

HOMESTEAD ENTRY SURVEY NO. 101

STATE OF ARIZONA NATIONAL FOREST

STATE OF ARIZONA

Chains

Chains

Direct Solar, June 12, 1915 at Cor. No. 7, H. E. S.

439 of High Bar.

Lat. 34° 30' 30" N. Long. 111° 02' 30" W. Elevation

7000 ft.

Telescope Time Horizontal Angle Vertical Angle Pos. Sum

Direct	8h. 10m. 15s.	88° 45' 30"	38° 10' 00"	0"
Reverse	8h. 11m. 10s.	88° 14' 00"	38° 43' 00"	0"
	8h. 10m. 45s.	88° 29' 45"	38° 52' 50"	55"
			38° 58' 34"	

Decl. 25° 19' 22"

$$\cos. 2. = \frac{\sin. 25^{\circ} 19' 22''}{\cos. 34^{\circ} 30' 30'' \times \cos. 38^{\circ} 58' 34''}$$

$$\tan. 34^{\circ} 30' 30'' \times \tan. 38^{\circ} 58' 34''$$

$$\log. \sin. 25^{\circ} 19' 22'' = 9.428897$$

$$\log. \cos. 34^{\circ} 30' 30'' = 9.91830$$

$$\log. \cos. 38^{\circ} 58' 34'' = 9.89849$$

$$9.70738 = \log.$$

.61801

$$\log. \tan. 34^{\circ} 30' 30'' = 9.847370$$

$$\log. \tan. 38^{\circ} 58' 34'' = 9.907999$$

$$9.75539 = \log.$$

.33833

$$\cos. 2. =$$

.06196

$$2. = 68^{\circ} 27' 22''$$

Bearing of reference object, N. 0° 02' 12" W.

SITGREAVES NATIONAL FOREST

STATE OF ARIZONA

Chains

Direct Solar, June 14, 1916 at cor. No. 7, H. E. S.

459 of Hugh Barr.

Lat. $34^{\circ} 30' 30''$ N. Long. $111^{\circ} 02' 30''$ W. Elevation
7000 ft.

Telescope	Time	Horizontal Angle	Vertical Angle	Pos. Sun
Direct	4h. 01m. 02s.	$84^{\circ} 59' 00''$	$36^{\circ} 49' 00''$	o +
Reverse	4h. 02m. 09s.	$85^{\circ} 28' 00''$	$37^{\circ} 05' 00''$	+ o
	4h. 01m. 35s. ✓	$85^{\circ} 13' 30''$ ✓	$36^{\circ} 57' 00''$ ✓	
			1' 00" ✓	
			<u>$36^{\circ} 58' 00''$</u>	

Decl. $23^{\circ} 17' 27''$ N. ✓

$$\text{Cos. Q.} = \frac{\sin. 23^{\circ} 17' 27'' \text{ N.}}{\cos. 34^{\circ} 30' 30'' \times \cos. 36^{\circ} 58' 00''}$$

$$\tan. 34^{\circ} 30' 30'' \times \tan. 36^{\circ} 58' 00''$$

$$\begin{aligned} \log. \sin. 23^{\circ} 17' 27'' &= 9.597035 \checkmark \\ \log. \cos. 34^{\circ} 30' 30'' &= 9.915950 \checkmark \\ \log. \cos. 36^{\circ} 58' 00'' &= 9.902539 \checkmark \\ & \quad \underline{9.778546} = \log. \quad .60055 \checkmark \end{aligned}$$

$$\begin{aligned} \log. \tan. 34^{\circ} 30' 30'' &= 9.837270 \checkmark \\ \log. \tan. 36^{\circ} 58' &= 9.876589 \checkmark \\ & \quad \underline{9.713859} = \log. \quad .51744 \checkmark \end{aligned}$$

$$\text{Cos. Q.} = .08311 \checkmark$$

$$\text{Q.} = 85^{\circ} 13' 58'' \checkmark$$

Bearing of reference object, N. $0^{\circ} 00' 28''$ W. ✓

E.M.H.

Note that $34^{\circ} 30' 30''$ N used in computation found to be 13" in error. Corrected lat. $34^{\circ} 30' 17''$ N. Error to small to affect azimuth any appreciable amt.

- DIRECTIONS.—1. Carry out calculations to two decimals only.
2. In balancing Latitudes and Departures 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 link. In calculations of N. and S. areas drop all after second decimal. Surveyors are required to use the Standard Field Tables issued by the G. L. O.
4. Only three copies of this tabulation are necessary, for the District Office, the Surveyor General, and the Commissioner.

TABLING AND CALCULATIONS OF HOMESTEAD ENTRY SURVEY NO. 459, STATE OF ARIZONA.

CORNERS.	BEARING.	DISTANCE.	LATITUDES.		DEPARTURES.		DOUBLE M. D.	N. AREAS.	S. AREAS.
			NORTH.	SOUTH.	EAST.	WEST.			
1-2	N. 14° 53' E.	21.44	20 72		5 51 ⁰³		5 53		
2-3	N. 34° 51' E.	15.60	12 80		8 91 ⁹⁷		19 98	114 58	
3-4	N. 30° 02' W.	5.90	5 11			2 95	25 95	132 60	
4-5	S. 84° 50' E.	3.69		33	3 68 ⁴⁹		26 68		8 80
5-6	N. 15° 18' E.	9.40	9 07		2 48		32 85	297 95	
6-7	S. 89° 43' E.	3.18		02	3 18		38 52		77
7-8	S. 14° 44' W.	14.16		1369		3 60	38 11		521 73
8-9	S. 28° 57' W.	27.48		2405 ⁰⁴		13 30 ³⁴	21 24		510 61
9-10	S. 3° 07' W.	11.02		1100		60	7 37		81 07
10-1	N. 67° 51' W.	3.66	1 38			3 32	3 32	4 68	
		115.53	49 08	4909	25 76	23 84		805 55	1122 98
			49 08	4908	23 80	23 80			805 55
									20/317 43
									15 87 Acres.

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ET

DIRECTIONS.—1. Carry out calculations to two decimals only.

2. In balancing Latitudes and Departures 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 link. In calculations of N. and S. areas drop all after second decimal. Surveyors are required to use the Standard Field Tables issued by the G. L. O.

4. Only three copies of this tabulation are necessary, for the District Office, the Surveyor General, and the Commissioner.

TABLING AND CALCULATIONS OF HOMESTEAD ENTRY SURVEY NO. 452, STATE OF ARIZONA

CORNERS.	BEARING.	DISTANCE.	LATITUDES.		DEPARTURES.		DOUBLE M. D.	N. AREAS.	S. AREAS.
			NORTH.	SOUTH.	EAST.	WEST.			
	S. 0-13 E.	40.37		40 37	15				
	S. 0-25 E.	40.35		40 35	29				
	S. 89-28 E.	46.75		43	46 75				
	N. 89-57 E.	40.33	03		40 33				
	N. 0-11 E.	40.52	40.52		13				
	N. 0-04 W.	40.34	40 34			05			
	N. 89-50 W.	40.56	12			40 56			
	N. 89-43 W.	46.77	23			46 77			
			81 24	81 15	87 65	87 38			
			81 15		87 38				
			09		27				

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APPROVAL

Office of the United States Surveyor General,

Phoenix, Arizona, May 8, 1920

The foregoing field notes of Homestead Entry Survey No.

459

executed by *R. P. A. Johnson, Surveyor-Draftsman and*
Frank D. Gost, Surveyor, [Forest Service Title.]
under his special instructions, dated *April 17*, 1916, having
been critically examined, and the necessary corrections and explanations
made, the said field notes, and the surveys they describe, are hereby
approved.

Frank P. Trott
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.