

ORIGINAL

U. S. DEPARTMENT OF AGRICULTURE
FOREST SERVICE

FIELD NOTES

OF

HOMESTEAD ENTRY SURVEY NO. 457

SITUATED IN THE SITGREAVES NATIONAL FOREST

ADMINISTRATIVE DISTRICT NO. 3

In Section 18 , -surveyed, Township 13 N., Range 13 E.

SEP 4-1917

DEC 7 1919

APR-8-1920

APR 23 1920

MAY-7-1920

of the

Gila and Salt River Base and Meridian.

State of

ARIZONA

Applicant for listing George Wiggins,
 Residence Winslow, Arizona
 Application No. 288 , dated September 15 , 1911
 List No. 3-1720 , dated March 14 , 1913

Applicant for survey George Wiggins,
 Residence Winslow, Arizona
 H. E. No. 023844 , dated November 28 , 1913
 Office
 Land District Phoenix, Arizona

Survey executed by R. P. A. Johnson, Surveyor - Draftsman
 and Frank D. Yost, Surveyor - Forest Service,
 Under special instructions dated April 17 , 1916
 Survey commenced June 11 , 1916
 Survey completed August 1 , , 1919.
 Under Acts of June 11, 1906 and March 4, 1915 & July 24, 1919.

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OATH OF ASSISTANTS

We hereby certify that we assisted R. P. A. Johnson in surveying all those parts or portions of Homestead Entry Survey No. 457, 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.

Nelson A. Newman, Chainman

Orin Childers, Chainman

Subscribed and sworn to before me this sixth day of July, 1916

R. P. A. Johnson
Surveyor Draftsman
[Forest Service Title.]

OATH OF SURVEYOR

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

List patent No. 3-1720, dated March 14 1913, for June 11, 1906, the same to be known as Homestead Entry Survey No. 457, situated within the Sitgreaves National Forest, in 18 Township 13 N, Range 13 E, and --- Township ---, Range ---

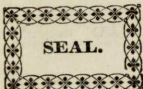
of the Gila and Salt Chou Base and Meridian, Arizona, and the related retracements and resurveys and section subdivisions, which are represented in the following field notes as having been surveyed by me; and I further solemnly swear that all the corners of said survey have been established and perpetuated 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.

DISTRICT OF COLUMBIA
CITY OF WASHINGTON

R. P. A. Johnson
Surveyor Draftsman
[Forest Service Title.]

Subscribed and sworn to before me this 14th day of February, 1917.

Sylvester L. McLaughlin
NOTARY PUBLIC, D. C.



8-2349

Commission expires
July 20, 1918

U. S. DEPARTMENT OF AGRICULTURE
FOREST SERVICE

FIELD NOTES

OF

HOMESTEAD ENTRY SURVEY NO.

SITUATED IN THE NATIONAL FOREST

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. **457**, 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.

H. E. Brandebury

Chainman

H. H. 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 instruc-
tions of the United States Surveyor General for **ARIZONA**, dated
April 17, 19**16**, 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, No. **3-1720**, dated **March 14**, 19**13**, for
Patent, under the Act of **June 11**, 1906,
the same to be known as Homestead Entry Survey No. **457**,
situated within the **SITGREAVES** National Forest, in
--surveyed Section **18**, 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

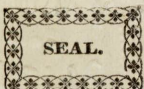
[Forest Service Title.]

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

November, 19**19**.

Ethel G. Myere

Notary Public,



8-2249

My commission expires March 17, 1921.

SITGREAVES NATIONAL FOREST

STATE OF ARIZONA

Chains

Applicant for listing, George Wiggins; Application No. 288, dated September 15, 1911; List No. 3-1720, dated March 14, 1913; H. E. 023844, made in the Phoenix Land Office on November 28, 1913 by George Wiggins.

Surveyed under special instructions from the Surveyor General for Arizona, dated April 17, 1916 and designated as Homestead Entry Survey No. 457.

Situated in Section 18, T. 13 N., R. 13 E., Gila and Salt River Base and Meridian, Sitgreaves National Forest, Arizona.

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

Survey commenced June 11, 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 11, 1916, p.m.

I observe the altitude of the sun for azimuth at cor. No. 7 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° 31' 15" N, Long. 111° 01' 39" W, from special instructions from the Surveyor General, and later verified.

Telescope	Time p.m.	Horizontal Angle	Vertical Angle
Direct	4h. 24m. 49s.	81° 59' 00"	31° 39' 30"
Reversed	4h. 25m. 49s.	82° 28' 00"	31° 59' 00"

Chains Bearing of reference object, N. 0° 03' 21" W.

June 12, 1916, a.m.

I again observe the altitude of the sun for azimuth at cor. No. 7, 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. Lat. 34° 31' 15" N., Long. 111° 01' 39" W., from special instructions from the Surveyor General and later verified.

Telescope	Time a.m.	Horizontal Angle	Vertical Angle
Direct	7h. 56m. 43s.	85° 19' 30"	36° 32' 00"
Reversed	7h. 57m. 49s.	84° 50' 00"	36° 12' 30"

Bearing of reference object, N. 0° 02' 37" W.

The mean of these is N. 0° 02' 59" W. and from the corresponding meridian all the courses of this survey were deflected.

RETRACEMENT

June 12, 1916.

From the 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 North 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)

Thence West.

On random line bet. secs. 18 and 19.

46.77 Fall 23 lks. South of cor. for secs. 13, 18, 19 and 24

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STATE OF ARIZONA

Chains

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 the Surveyor General.

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

Note: This line was re-chained to verify distance.

R. P. A. Johnson, Surveyor-Draftsman

July 30, 1919.

In accordance with letter from Surveyor General, dated January 14, 1918, I, Frank D. Yost, Surveyor-Forest Service, together with Harold E. Brandeberry and Harold H. Longfellow, Assistants, return to this claim for the purpose of making necessary retracement of the remaining boundaries of Sec. 18, 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.

At the 1/4 sec. cor. bet. secs. 18 and 19, T. 13 N., R. 13 E., hereinafter described, I observe the altitude of the sun for azimuth. The reading on the reference object is set at zero and the sun was observed in all four quadrants of the field. My watch is set for local mean time. Latitude 34° 30' 46" N. Longitude 111° 01' 42" W., from Special Instructions from the Surveyor General and later verified.

SITGREAVES NATIONAL FOREST

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Chains

Telescope	Time a.m.	Horizontal Angle	Vertical Angle	Pos. Sun
Direct	6h 54m 46s	147° 56' 30"	20° 32' 30"	+°
Reversed	6h 57m 06s	147° 39' 30"	20° 27' 30"	+°
Direct	6h 55m 21s	147° 27' 00"	20° 38' 30"	+°
Reversed	6h 56m 26s	148° 08' 30"	20° 19' 30"	+°

Bearing of reference object N. 66° 55' 16" W.

At the same station I again observe the altitude of the sun, the reading on the reference mark is set at zero and the sun was observed in all four quadrants of the field.

Telescope	Time a.m.	Horizontal Angle	Vertical Angle	Pos. Sun.
Direct	7h 00m 06s	148° 38' 00"	21° 36' 30"	+°
Reversed	7h 02m 16s	148° 19' 30"	21° 30' 30"	+°
Direct	7h 00m 41s	148° 08' 30"	21° 44' 00"	+°
Reversed	7h 01m 41s	148° 49' 00"	21° 25' 00"	+°

Bearing of reference object N. 66° 54' 55" W.

The mean bearing of the reference object as determined from the two observations is N. 66° 55' 05" W. I accept bearing of reference mark as N. 66° 55' W. and to the meridian thus determined the courses of the retracement were referred by sustained angulation.

From the 1/4 Sec. Cor. bet. secs, 18 and 19, heretofore described.

Thence East (Record course S. 89° 40' E.)

On a random line bet. secs. 18 and 19 E/2

40.56 Fall 12 lks. N. of 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.

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Chains	<p>True line is S. 89° 50' E., 40.56 chs.</p> <hr/> <p>Thence North (Record Course N. 0° 03' W.)</p> <p>On a random line bet. secs. 17 and 18, S/2.</p>
40.45	<p>Fall 9 lks. West of the 1/4 Cor., which is a sandstone 6 x 10 x 5 ins. above ground, marked and witnessed as described by the Surveyor General.</p> <p>True line is N. 0° 08' E., 40.45 chs.</p> <hr/> <p>Thence North (Record course N. 0° 03' W.)</p> <p>On a random line bet. secs. 17 and 18, N/2.</p>
40.40	<p>Fall 13 lks. West of the cor. to Secs. 7, 8, 17 and 18, a sandstone 10 x 10 x 6 ins. above ground, marked and witnessed as described by the Surveyor General.</p> <p>True line is N. 0° 11' E., 40.40 chs.</p> <hr/> <p>July 30, 1919.</p> <p>August 1, 1919.</p> <p>Thence West (Record course N. 89° 50' W.)</p> <p>On a random line bet. secs. 7 and 18, E/2.</p>
40.46	<p>Fall 25 lks. South of the 1/4 cor. A sandstone 6 x 12 x 3 ins. above ground, marked and witnessed as described by the Surveyor General.</p> <p>True line is N. 89° 39' W., 40.46 chs.</p> <hr/> <p>Thence West, (Record course N. 89° 50' W.)</p> <p>On a random line bet. Secs. 7 and 18, W/2.</p>

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Chains
47.31

Fall 29 lks. North of Cor. to Secs. 7, 12, 13 and 18,
T. 13 N., Rs. 12 and 13 E., a sandstone 7 x 15 x 6 ins.
above ground, marked and witnessed as described by the
Surveyor General.
True Course is S. 89° 39' W., 47.31 chs.

Thence South
Retracing line bet. Secs. 13 and 18, N/2.

40.36

Fall 23 lks. West of the 1/4 sec. cor., a sandstone
6 x 12 x 3 ins. above ground, marked and witnessed
as described by the Surveyor General.
True line is S. 0° 20' E., 40.36 chs.

Thence South,
Retracing line bet. secs. 13 and 18, S/2

40.35

Intersect cor. to Secs. 13, 18, 19 and 24, a sandstone
14 x 6 x 6 ins. above ground, marked and witnessed
as described by the Surveyor General.
True line is South, 40.35 chs.

Frank D. Yost, Surveyor-Forest Service,
August 1, 1919.

BOUNDARIES OF CLAIM

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

June 12, 1916.

Beginning at cor. No. 1 and C. C. on line bet. Secs.
18 and 19.
Deposit a limestone 4 x 4 x 1 ins. marked with a +,
14 ins. in the ground, over which set a limestone

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Chains

24 x 9 x 4 ins., chiseled + for the point, 1 - H E S 457 on N. face and C C on ENE. face; and raise a mound of stone 3 ft. base, 2 ft. high ENE. of cor., whence:

A yellow pine, 18 ins. dia., brs. S. 37° 44' W.,

105 lks. dist., scribed 1 H E S 457 + B T

A yellow pine, 16 ins. dia., brs.

S. 74° 06' W., 55 lks. dist.,

scribed 1 H E S 457 + B T

Cor. for secs. 13, 18, 19 and 24, T.

13 N., Rs. 12 and 13 E., heretofore

described, bears N. 89° 43' W.,

29.48 chs. dist.

1/4 sec. cor. bet. secs. 18 and 19, here-

tofore described, bears S. 89° 43' E.,

17.29 chs. dist.

Cor. No. 7 of H. E. S. 459, which is a

limestone 10 x 8 x 10 ins. above ground,

marked 7 - H E S 459 on SW. face, and

C C on SSW. face, with a mound of stone

3 ft. base, 2 ft. high SSW. of cor.,

bears N. 89° 43' W., 8.45 chs. dist.,

by direct measurement.

Cor. H-13 of the list survey, which is a

limestone 14 x 4 x 6 ins. above ground,

marked and witnessed as described by the

Forest Service, bears S. 88° W., 53 lks.

dist., I destroy all trace of this

list cor.

Lat. 34° 30' 46" N., Long. 111° 01' 55" W., from special

instructions from the Surveyor General, and later verified.

Mag. decl. at 4:00 p.m. 14° 15'. Mean mag. decl., 14°

17' E.

Chains

-Thence N. 70° 00' W.

Along E. slope.

2.72 To Cor. No. 2.

Identical with cor. H-12 of the list survey, which is a limestone 10 x 14 x 6 ins. above ground, marked and witnessed as described by the Forest Service. I destroy all trace of this list cor. Deposit a limestone 8 x 2 x 2 ins. marked with a +, 14 ins. in the ground, over which set a limestone 24 x 14 x 8 ins., chiseled + for the point and 2 - H E S 457 on E. face; and raise a mound of stone 3 ft. base, 2 ft. high, E. of cor., whence:

A yellow pine, 18 ins. dia., bears

S. 37° 44' W., 105 lks. dist.,

scribed 2 H E S 457 + B.T.

A yellow pine, 16 ins. dia., bears

S. 74° 06' W., 55 lks. dist.,

scribed 2 H E S 457 + B T

Thence N. 57° 08' E.

Descend open E. slope 10 ft. to draw.

0.80 Foot descent. Thence across open draw.

2.50 Trail, bears E. and W.

5.00 Leave draw, Ascend 15 ft. along open South slope to point of ridge.

8.00 Top ascent on point of ridge, bears E. and W.

Descend 15 ft. to draw.

9.30 Foot descent. Thence across open draw, drains SE.

13.27 To cor. No. 3.

Identical with Cor. H-11 of the list survey, which is a limestone 14 x 4 x 10 ins. above ground, marked and witnessed as described by the Forest Service. I de-

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STATE OF ARIZONA

Chains

destroy all trace of this list cor. Deposit a limestone 4 x 4 x 3 ins. marked with a +, 15 ins. in the ground, over which set a limestone 40 x 16 x 6 ins., chiseled + for the point and 3 - H E S 457 on S. face; and raise a mound of stone 5 ft. base, 2-1/2 ft. high around cor. to protect it. (Impracticable to set stone deeper) Whence:

A yellow pine, 38 ins. dia., bears N. 55° 30' W., 66 lks. dist., scribed 3 H E S 457 + B T.

A yellow pine, 18 ins. dia., bears S. 77° 30' W., 64 lks. dist., scribed 3 H E S 457 + B T.

Thence S. 82° 57' E.

Ascend 15 ft. along South slope to cor.

7.16 To cor. No. 4.

Identical with cor. H-10 of the list survey, which is a limestone 14 x 10 x 4 ins. on top of 12 ft. ledge bearing West and NE., marked and witnessed as described by the Forest Service. I destroy all trace of this list cor. Point for cor. falls on the limestone ledge 12 ft. high. I chisel a + on top of ledge at the point and 4 - H E S 457 to S.; and raise a mound of stone 3 ft. base, 2 ft. high S. of cor., whence:

A yellow pine, 26 ins. dia., bears N. 15° 02' E., 114 lks. dist., scribed 4 H E S 457 + B T.

A yellow pine, 22 ins. dia., bears N. 60° 06' W., 104 lks. dist., scribed 4 H E S 457 + B T.

Thence N. 56° 26' E.

Descend 20 ft. along open S. slope to bottom.

8.20 Foot descent. Thence along edge of open bottom.

10.70 Trail bears NE. and SW.

19.20 Fence cor., fence bears N. 31° E. and S. 27° E. Leave

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Chains	bottom and ascend timbered South slope 10 ft. to cor.
21.16	To cor. No. 5.
	<p>Identical with cor. H-9 of the list survey, which is a limestone 12 x 8 x 6 ins. above ground, marked and witnessed as described by the Forest Service. I destroy all trace of this list cor. Deposit a limestone 5 x 4 x 2 ins. marked with a +, 24 ins. in the ground, over which set a limestone 34 x 16 x 5 ins., chiseled + for the point and 5 - H E S 457 on SE. face; and raise a mound of stone 3 ft. base, 2 ft. high, SE. of cor., whence:</p> <p>A yellow pine, 38 ins. dia., bears N. 49° 58' W., 27 lks. dist., scribed 5 H E S 457 + B T.</p> <p>A yellow pine, 10 ins. dia., bears N. 2° 25' E., 161 lks. dist., scribed 5 H E S 457 + B T.</p> <p>Cor. H-8 of the list survey, which is a limestone 13 x 4 x 10 ins. above ground, marked and witnessed as described by the Forest Service, bears N. 23° E., 3.03 chs. dist. I destroy all trace of this list cor.</p> <p>Cor. H-7 of the list survey, which is a limestone 10 x 6 x 6 ins. above ground, marked and witnessed as described by the Forest Service, bears N. 22° 09' W., 8.80 chs. dist. I destroy all trace of this list cor.</p>
	Thence N. 13° 32' W.
	Ascend 25 ft. in timber to ridge.
1.20	Fence bears N. 31° E. and S. 31° W.
2.30	Top ascent. Descend 40 ft. to draw.
6.20	Foot descent. Thence across open draw, drains E.
6.25	Fence bears N. 45° W. and S. 45° E. Enter cultivated land.
11.95	Fence bears N. 15° E. and S. 15° W. Leave cultivated

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land and ascend 40 ft. in timber.

Chains 17.60 Top ascent. Descend 35 ft. in timber to cor.

23.26 Fence bears NW. and SE.

23.94 To cor. No. 6.

Identical with cor. H-5 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 limestone 5 x 4 x 2 ins., marked with a +, 14 ins. in the ground, over which set a limestone 24 x 14 x 5 ins., chiseled + for the point and 6 - H E S 457 on NE. face; and raise a mound of stone 3 ft. base, 2 ft. high NE. of cor., whence:

A yellow pine, 16 ins. dia., bears S. 31° 15' W., 44 lks. dist., scribed 6 H E S 457 + B T.

A yellow pine, 26 ins. dia., bears N. 85° 58' W., 80 lks. dist., scribed 6 H E S 457 + B T.

Cor. H-6 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, bears S. 33° 45' E., 6.37 chs. dist.

I destroy all trace of this list cor.

June 12, 1916.

June 13, 1916.

Thence N. 79° 21' W.

Descend 5 ft. to draw in timber.

0.70 Fence cor., fence bears NW. and SE. and along line.

Trail bears N. and S.

3.80 Leave draw and ascend 35 ft. in open to cor.

6.60 To cor. No. 7.

Identical with cor. H-4 of the list survey, which is a limestone 24 x 18 x 4 ins. on rock outcrop, marked and witnessed as described by the Forest Service. I

Chains

destroy all trace of this list cor. Point for cor. falls in broken rock outcrop. Set a limestone 28 x 16 x 5 ins. chiseled + for the point, and 7 - H E S 457 on E. face. It is impracticable to set cor., I therefore raise a mound of stone 5 ft. base, 2-1/2 ft. high around cor. to protect it, whence:

A yellow pine, 8 ins. dia., bears N. 49° 21' W., 68 lks. dist., scribed 7 H E S 457 + B T.

A yellow pine, 14 ins. dia., bears N. 11° 57' W., 110 lks. dist., scribed 7 H E S 457 + B T.

Thence N. 27° 57' E.

Descend 40 ft. to ravine in timber. Fence on line.

2.80 Foot descent. Thence across open draw, drains E.

4.00 Leave draw and ascend 25 ft. along timbered East slope.

6.20 Fence bears E. and along line.

7.00 Top ascent. Descend 25 ft. to ravine.

11.10 Ravine, 20 ft. deep, course E. Thence along foot East slope in edge of timber to cor.

14.51 To cor. No. 8.

Identical with cor. H-3 of the list survey, which is a limestone 10 x 3 x 14 ins. above ground, marked and witnessed as described by the Forest Service. I destroy all trace of this list cor. Deposit a limestone 4 x 3 x 1 ins. marked with a +, 18 ins. in the ground, over which set a limestone 28 x 9 x 4 ins., chiseled + for the point and 8 - H E S 457 on E. face; and raise a mound of stone 3 ft. base, 2 ft. high E. of cor., whence:

A yellow pine, 28 ins. dia., bears N. 12° 48' W., 29 lks. dist., scribed 8 H E S 457 + B T.

A yellow pine, 26 ins. dia., bears S. 54° 32' W., 59 lks. dist., scribed 8 H E S 457 + B T.

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Chains*	Thence N. 5° 28' E.
	Along foot of East slope in edge of timber. Fence on line.
7.04	To cor. No. 9.
	Identical with cor. H-2 of the list survey, which is a limestone 14 x 3 x 20 ins. above ground, marked and witnessed as described by the Forest Service. I destroy all trace of this list cor. Deposit a limestone 3 x 2 x 2 ins. marked with a +, 16 ins. in the ground, over which set a limestone 26 x 4 x 5 ins., chiseled + for the point and 9 - H E S 457 on E. face; and raise a mound of stone 3 ft. base, 2 ft. high E. of cor., whence:
	A yellow pine, 28 ins. dia., bears S. 41° 15' W., 64 lks. dist., scribed 9 H E S 457 + B T.
	A yellow pine, 14 ins. dia., bears S. 89° 24' W., 121 lks. dist., scribed 9 H E S 457 + B T.
	Thence N. 14° 29' W.
	Along fence in edge of timber at foot of East slope.
11.52	To cor. No. 10.
	Identical with cor. H-1 of the list survey, which is a limestone 10 x 3 x 4 ins. above ground, marked and witnessed as described by the Forest Service. I destroy all trace of this list cor. Deposit a limestone 3 x 3 x 3 ins. marked with a +, 14 ins. in the ground, over which set a limestone 24 x 16 x 5 ins., chiseled + for the point and 10 - H E S 457 on SE. face; and raise a mound of stone 3 ft. base, 2 ft. high SE. of cor., whence:
	A yellow pine, 40 ins. dia., bears S. 10° 30' W., 42 lks. dist., scribed 10 H E S 457 + B T.
	A yellow pine, 36 ins. dia., bears N. 41° 45' W.,

Chains

67 lks. dist., scribed 10 H E S 457 + B T.

Thence N. 76° 49' E.

Across draw in open. Fence on line.

1.60 Foot ascent. Ascend 20 ft. to cor.

2.07 To cor. No. 11.

Identical with cor. H-22 of the list survey, which is a limestone 16 x 5 x 8 ins. above ground, marked and witnessed as described by the Forest Service. I destroy all trace of this list cor. Deposit a limestone 8 x 3 x 2 ins. marked with a +, 16 ins. in the ground, over which set a limestone 26 x 15 x 6 ins., chiseled + for the point and 12 - H E S 457 on SW. face; and raise a mound of stone 3 ft. base, 2 ft. high SW. of cor., whence:

A yellow pine, 8 ins. dia., bears N. 61° 23' E., 34 lks. dist., scribed 11 H E S 457 + B T.

A yellow pine, 12 ins. dia., bears S. 35° 29' E., 52 lks. dist., scribed 11 H E S 457 + B T.

Thence S. 14° 38' E.

Descend 15 ft. along timbered W. slope to cor. Fence on line.

2.90 Fence cor., fence bears SSE. Leave fence.

11.50 Fence bears NNW. and SSE.

14.28 To cor. No. 12.

Identical with cor. H-21 of the list survey, which is a limestone 16 x 3 x 11 ins. above ground, marked and witnessed as described by the Forest Service. I destroy all trace of this list cor. Deposit a limestone 5 x 3 x 3 ins. marked with a +, 14 ins. in the ground, over which set a limestone 24 x 16 x 8 ins., chiseled + for the point and 12 - H E S 457 on W. face; and raise

SITGREAVES NATIONAL FOREST

STATE OF ARIZONA

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Chains	<p>a mound of stone 3 ft. base, 2 ft. high W. of cor., whence:</p> <p>A yellow pine, 26 ins. dia., bears N. 36° 10' E., .41 lks. dist., scribed 12 - H E S 457 + B T.</p> <p>A yellow pine, 14 ins. dia., bears S. 84° 31' E., .27 lks. dist., scribed 12 H E S 457 + B T.</p> <hr/> <p>Thence S. 14° 50' W.</p> <p>In open, along foot of W. slope.</p> <p>0.80 Fence bears NNW. and SSE.</p> <p>3.00 Enter cultivated land.</p> <p>9.50 Leave cultivated land. Fence bears NNE. and SSW.</p> <p>12.51 To cor. No. 13.</p> <p>Identical with cor. H-20 of the list survey, which is a limestone 14 x 8 x 6 ins. above ground, marked and witnessed as described by the Forest Service. I de- stroy all trace of this-list cor. Deposit a limestone 4 x 3 x 1 ins. marked with a +, 14 ins. in the ground, over which set a limestone 24 x 8 x 8 ins., chiseled + for the point and 13 - H E S 457 on W. face; and raise a mound of stone 3 ft. base, 2 ft. high W. of cor., whence:</p> <p>A yellow pine, 26 ins. dia., bears N. 16° 17' E., 15 lks. dist., scribed 13 H E S 457 + B T.</p> <p>A yellow pine, 14 ins. dia., bears S. 40° 36' W., 36 lks. dist., scribed 13 H E S 457 + B T.</p> <hr/> <p>Thence S. 25° 04' E.</p> <p>Along foot West slope in open.</p> <p>3.20 Trail bears NE. and SW.</p> <p>4.40 Fence bears N. 70° W. and S. 70° E.</p> <p>13.78 To cor. No. 14.</p> <p>Identical with cor. H-19 of the list survey, which is</p>
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SITGREAVES NATIONAL FOREST

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Chains

a limestone 13 x 11 x 12 ins. above ground, marked and witnessed as described by the Forest Service. I destroy all trace of this list cor. Deposit a limestone 4 x 4 x 3 ins. marked with a +, 14 ins. in the ground, over which set a limestone 24 x 12 x 12 ins., chiseled + for the point and 14 - H E S 457 on W. face; and raise a mound of stone 3 ft. base, 2 ft. high W. of cor.,

whence:

A yellow pine, 22 ins. dia., bears S. 25° 40' E., 149 lks. dist., scribed 14 H E S 457 + B T.

A yellow pine, 18 ins. dia., bears S. 47° 50' E., 133 lks. dist., scribed 14 H E S 457 + B T.

Thence S. 1° 01' E.

Ascend 15 ft. along West slope to cor. Fence on line.

-8.26 To cor. No. 15.

Identical with cor. H-18 of the list survey, which is a limestone 14 x 4 x 10 ins. above ground, marked and witnessed as described by the Forest Service. I destroy all trace of this list cor. Deposit a limestone 5 x 2 x 2 ins. marked with a +, 14 ins. in the ground, over which set a limestone 24 x 12 x 6 ins., chiseled + for the point and 15 - H E S 457 on W. face; and raise a mound of stone 3 ft. base, 2 ft. high W. of cor.,

whence:

A yellow pine, 26 ins. dia., bears N. 81° 35' E., 42 lks. dist., scribed 15 H E S 457 + B T.

A yellow pine, 22 ins. dia., bears N. 13° 34' E., 87 lks. dist., scribed 15 H E S 457 + B T.

Thence S. 27° 49' E.

Ascend 15 ft. along West slope in open to cor. Fence on line.

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Chains
14.14

To cor. No. 16.

Identical with cor. H-17 of the list survey, which is a limestone 16 x 9 x 14 ins. above ground, marked and witnessed as described by the Forest Service. I destroy all trace of this list cor. Deposit a limestone 5 x 4 x 1 ins. marked with a +, 14 ins. in the ground, over which set a limestone 24 x 9 x 8 ins., chiseled + for the point and 16 - H E S 457 on NW. face; and raise a mound of stone 3 ft. base, 2 ft. high NW. of cor., whence:

A yellow pine, 16 ins. dia., bears S. 57° 23' E., 51 lks. dist., scribed 16 H E S 457 + B T.

A yellow pine, 16 ins. dia., bears N. 27° 08' E., 69 lks. dist., scribed 16 H E S 457 + B T.

Thence S. 84° 30' W.

Descend 25 ft. in open to draw.

0.70 Foot descent. Enter cultivated land and draw, drains NW.

3.50 Leave cultivated land.

6.30 Fence bears N. 82° W. and S. 82° E. Ascend 10 ft. to cor.

8.90 To cor. No. 17.

Identical with cor. H-16 of the list survey, which is a limestone 10 x 2 x 6 ins. above ground, marked and witnessed as described by the Forest Service. I destroy all trace of this list cor. Deposit a limestone 5 x 2 x 2 ins. marked with a +, 14 ins. in the ground, over which set a limestone 24 x 8 x 5 ins., chiseled + for the point and 17 - H E S 457 on N. face; and raise a mound of stone 3 ft. base, 2 ft. high N. of cor., whence:

Chains

A yellow pine, 14 ins. dia., bears S. 22° 13' W.,
42 lks. dist., scribed 17 H E S 457 + B T.

A yellow pine, 7 ins. dia., bears S. 53° 16' W.,
66 lks. dist., scribed 17 H E S 457 + B T.

Thence S. 54° 23' W.

Ascend 10 ft. along NW. slope in edge of timber.

7.00 Top ascent. Descend 15 ft. to draw.

16.50 Enter draw. Leave timber.

18.86 To cor. No. 18.

Identical with cor. H-15 of the list survey, which is a limestone 12 x 8 x 8 ins. above ground, marked and witnessed as described by the Forest Service. I destroy all trace of this list cor. Deposit a limestone 4 x 4 x 1 ins. marked with a +, 14 ins. in the ground, over which set a limestone 24 x 20 x 8 ins., chiseled + for the point and 18 - H E S 457 on N. face; and raise a mound of stone 3 ft. base, 2 ft. high N. of cor., whence:

A yellow pine, 24 ins. dia., bears S. 85° 53' E.,
143 lks. dist., scribed 18 H E S 457 + B T.

A yellow pine, 14 ins. dia., bears S. 51° 31' W.,
117 lks. dist., scribed 18 H E S 457 + B T.

Thence N. 85° 17' W.

Across open draw, drains NW.

1.50 Leave draw and ascend 15 ft. along N. slope to cor.

6.33 To cor. No. 19:

Identical with cor. H-14 of the list survey, which is a limestone 10 x 5 x 8 ins. above ground, marked and witnessed as described by the Forest Service. I destroy all trace of this list cor. Deposit a limestone 2 x 2 x 2 ins. marked with a +, 16 ins. in the ground,

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STATE OF ARIZONA

Chains

over which set a limestone 26 x 8 x 4 ins., chiseled
+ for the point and 19 - H E S 457 on N. face; and raise
a mound of stone 3 ft. base, 2 ft. high N. of cor.,
whence:

A yellow pine, 18 ins. dia., bears S. 9° E., 9
lks. dist., scribed 19 H E S 457 + B T.

A yellow pine, 32 ins. dia., bears S. 76° 04' E.,
36 lks. dist., scribed 19 H E S 457 + B T.

Thence S. 66° 51' W.

Descend NW. slope 10 ft. in timber to draw.

8.60 Foot descent. Thence across open draw, drains NW.

10.00 Leave draw and ascend 10 ft. in open to cor.

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

AREA

Total Area - - - - - 35.98 acres

IMPROVEMENTS

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

A log house, 14 x 25 ft., the long side of which bears
N. and S. and the SW. cor. of which bears N. 78° 41' E.,
1.72 chs. dist. from cor. No. 7.

Value ----- \$150.00

A well, 20 ft. deep, bears N. 76° 10' E., 7.15-chs.
dist. from cor. No. 7.

Value ----- \$50.00

There is approximately 1-3/4 mile of wire fence.

Value ----- \$175.00

DESCRIPTION

This claim is situated in a long, narrow open draw, tri-
butary to Willow Creek and lies at an elevation of

SITGREAVES NATIONAL FOREST

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Chains 7000 ft. It is surrounded on all sides by heavily timbered flat top ridges. The general slope is to N. The timber consists of a good stand of yellow pine occurring in patches along the boundary lines. The soil in bottom is a rich black loam of good depth and supports good crops. The slopes are steep, rocky and non-agricultural. Water for domestic use is obtained from a well on claim. There is no water for irrigation.

There are approximately 15 acres in cultivation. I saw no indications of mineral upon the claim.

CONFLICTS AND ADJOINING CLAIMS

There are no conflicting or adjoining claims. H. E. S. 459 of Hugh Barr is approximately 1/8 mile to SW. Winslow, Arizona, the nearest commercial center, postoffice and railroad point, is approximately 50 miles distant, four miles of which is rough trail, 11 miles is fair wagon road and 35 miles is good road.

TRAVERSE

Cor.	Course	Dist.	N	S	E	W	
1-2	N. 70° 00' W.	2.72	0.93✓			2.56✓	
2-3	N. 57° 08' E.	13.27	7.20✓		11.15✓		
3-4	S. 82° 57' E.	7.16		0.88✓	7.11✓		
4-5	N. 56° 26' E.	21.16	11.70✓		17.63✓		
5-6	N. 13° 32' W.	23.94	23.28✓			5.60✓	
6-7	N. 79° 21' W.	6.60	1.22✓			6.49✓	
7-8	N. 27° 57' E.	14.51	12.82✓		6.80✓		
8-9	N. 5° 28' E.	7.04	7.01✓		10.67✓		
9-10	N. 14° 29' W.	11.52	11.15✓			2.88✓	
10-11	N. 76° 49' E.	2.07	0.47✓		2.02✓		
11-12	S. 14° 38' E.	14.28		13.82✓	3.61✓		
12-13	S. 14° 50' W.	12.51		12.09✓		3.20✓	
13-14	S. 25° 04' E.	13.78		12.48✓	5.84✓		
14-15	S. 1° 01' E.	8.26		8.26✓	0.15✓		
15-16	S. 27° 49' E.	14.14		12.51✓	6.60✓		
16-17	S. 84° 30' W.	8.90		0.85✓		8.86✓	
17-18	S. 54° 23' W.	18.86		10.98✓		15.33✓	
18-19	N. 85° 17' W.	6.33	0.52✓			6.31✓	
19-1	S. 66° 51' W.	11.36		4.47✓		10.45✓	
			218.41✓	76.30✓	76.34✓	61.58✓	61.68✓
					76.30	61.58	

Error in Lat. and Dep. .04 .10

Closing error, 1:2028!

Survey completed August 1, 1919.

Frank J. York
Surveyor - Forest Service,

R. B. Johnson
Surveyor - Draftsman
Forest Service

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Chains

Direct Solar at Cor. No. 7, June 12, 1916.

Lat. 34° 31' 15" N., Long. 111° 01' 39" W.

Elevation approximately 7000 feet.

Telescope	Time a.m.	Horizontal Angle	Vertical Angle	Pos. Sun.
Direct	7h. 56m. 43s.	85° 19' 30"	36° 32' 00"	o+
Reversed	7h. 57m. 49s.	84° 50' 00"	36° 12' 30"	+o
Mean	7h. 57m. 16s.	85° 04' 45"	36° 22' 15"	
		Refraction,	- 1' 01"	
		Parallax,	+ 08"	
			36° 21' 22"	

Declination 23° 09' 51" N.

$$\text{Cos. } Q. = \frac{\text{Sin } 23^{\circ} 09' 51''}{\text{Cos. } 34^{\circ} 31' 15'' \times \text{Cos. } 36^{\circ} 21' 22''} - 34^{\circ} 31' 15'' \times \tan 36^{\circ} 21' 22''$$

log sin 23° 09' 51" = 9.5947979
 log cos 34° 31' 15" = 9.9158851
 log cos 36° 21' 22" = 9.9059837
9.7729291 = log .59283

log tan 34° 31' 15" = 9.8374726
 log tan 36° 21' 22" = 9.8669261
9.7043987 = log .50629

Cos Q. = .08654

Q. = 85° 02' 08"

Bearing of reference mark N. 0° 02' 37" W.

Direct Solar at Cor. No. 7, June 11, 1916.

Telescope	Time p.m.	Horizontal Angle	Vertical Angle	Pos. Sun
Direct	4h. 24m. 49s.	81° 59' 00"	31° 39' 30"	o+
Reversed	4h. 25m. 49s.	82° 28' 00"	31° 59' 00"	+o
Means	4h. 25m. 19s.	82° 13' 30"	31° 49' 15"	
		Refraction,	- 1' 13"	
		Parallax,	+ 08"	
			31° 48' 10"	

Declination 23° 07' 22" N.

log sin 23° 07' 22" = 9.5940640
 log cos 34° 31' 15" = 9.9158851
 log cos 31° 48' 10" = 9.9293510
9.7488279 = log .56083

log tan 34° 31' 15" = 9.8374726
 log tan 31° 48' 10" = 9.7924571
9.6299297 = log .42651

Cos. Q. = .13432

Q. = 82° 16' 51"

Bearing of reference mark is N. 0° 03' 21" W.

SITGREAVES NATIONAL FOREST

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Direct Solar, July 30, 1919, at 1/4 cor. bet. Secs.
18 and 19, T. 13 N., R. 13 E., G. & S. R. B. and M.
Elevation 7000 ft. Lat. 34° 30' 46" N. Long.
111° 01' 42" W.

Telescope	Pos. Sun.	Time a.m.	Horizontal Angle	Vertical Angle
Direct	+°	6h 54m 46s	147° 56' 30"	20° 32' 30"
Reversed	⊕	6h 57m 06s	147° 39' 30"	20° 27' 30"
Direct	⊕	6h 55m 21s	147° 27' 00"	20° 38' 30"
Reversed	⊕	6h 56m 26s	148° 08' 30"	20° 19' 30"
Means		6h 55m 54s	147° 47' 52"	20° 29' 30"

Decl. 18° 41' 25" N., Corr. for Ref. 1' 55"
20° 27' 35"

$$\text{Cos. } Q = \frac{\text{Sin } 18^\circ 41' 25''}{\text{Cos. } 34^\circ 30' 46'' \times \text{Cos. } 20^\circ 27' 35''} = \frac{\text{tan } 34^\circ 30' 46''}{\text{tan } 20^\circ 27' 35''}$$

tan 20° 27' 35"

log. sin. 18° 41' 25" = 9.5057633
 log. cos. 34° 30' 46" = 9.9159271
 log. cos. 20° 27' 35" = 9.9717018
9.6181344 = log..41508

log. tan. 34° 30' 46" = 9.8373418
 log. tan. 20° 27' 35" = 9.5718063
9.4091481 = log..25653
 cos. Q = 15855

Q = 80° 52' 36"

Bearing of Ref. object, N. 66° 55' 16" W.

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Chains

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Vertical Angle	Horizontal Angle	Time	Telescope	Remarks
117° 01' 42"			Direct	Direct Solar, July 30, 1913, at 1/4 cor. bet. Secs. 18 and 19, T. 18 N., R. 18 E., S. 2-8. N.W. 1/4.
			Reversed	Elevation 7000 ft. Lat. 34° 30' 40" Long.
147° 58' 30"	147° 58' 30"	5m 42s	Direct	
147° 59' 30"	147° 59' 30"	5m 57s	Reversed	
147° 57' 00"	147° 57' 00"	5m 52s	Direct	
148° 03' 30"	148° 03' 30"	5m 58s	Reversed	
147° 47' 30"	147° 47' 30"	5m 58s	Means	
Decl. 16° 41' 48" W., Corr. for Ref. 11 34'				
Cos. 2 = sin 18° 41' 35"				
Cos. 184° 30' 40" x Cos. 30° 27' 33"				
tan 30° 27' 33"				
log. sin. 18° 41' 35" = 9.509633				
log. cos. 34° 30' 40" = 9.913271				
log. cos. 30° 27' 33" = 9.9217018				
9.913271 - 9.9217018 = log. 1.1509				
log. tan. 34° 30' 40" = 9.8373418				
log. tan. 30° 27' 33" = 9.8718033				
9.8373418 - 9.8718033 = log. 1.36633				
cos. 184° 30' 40"				
9 = 80° 32' 30"				
Bearing of Ref. Object. N. 65° 33' 15" W.				

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STATE OF ARIZONA

Chains

Direct Solar Obsn. July 30, 1919, at 1/4 cor. bet. Secs. 18 and 19, T. 13 N., R. 13 E., G. & S. R. B. and M.

Telescope	Pos. Sun	Time a.m.	Horizontal Angle	Vertical Angle
Direct	+°	7h 00m 06s	148° 38' 00"	21° 36' 30"
Reversed	♂	7h 02m 16s	148° 19' 30"	21° 30' 30"
Direct	+°	7h 00m 41s	148° 08' 30"	21° 44' 00"
Reversed	+°	7h 01m 41s	148° 49' 00"	21° 25' 00"
Means,		7h 01m 11s	148° 28' 45"	21° 34' 00"

corr. for refr. 1' 48"
21° 32' 12"

Decl. 18° 41' 21" N.

$$\text{Cos. } Q = \frac{\sin. 18^\circ 41' 21''}{\cos. 34^\circ 30' 46'' \times \cos. 21^\circ 32' 12''} - \tan 34^\circ 30' 46'' \times \tan 21^\circ 32' 12''$$

$$\tan 21^\circ 32' 12''$$

$$\begin{aligned} \log. \sin. 18^\circ 41' 21'' &= 9.5057384 \\ \log. \cos. 34^\circ 30' 46'' &= 9.9159271 \\ \log. \cos. 21^\circ 32' 12'' &= 9.9685683 \\ \hline &= 9.6212430 = \log. .41806 \end{aligned}$$

$$\begin{aligned} \log. \tan. 34^\circ 30' 46'' &= 9.8373418 \\ \log. \tan. 21^\circ 32' 12'' &= 9.5962120 \\ \hline &= 9.4335538 = \log. .27136 \end{aligned}$$

$$\text{Cos. } Q \quad \underline{.14670}$$

$$Q = 81^\circ 33' 52''$$

Bearing of reference object N. 66° 54' 53" W.

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NATIONAL FOREST

STATE OF

Chains Direct Solar Obs. July 23, 1912, at 1st cor. of Sec. 18 and 19, T. 13 N., R. 12 E., S. 23. W. 3rd

Direct Solar Obs. July 23, 1912, at 1st cor. of Sec. 18 and 19, T. 13 N., R. 12 E., S. 23. W. 3rd

Vertical Angle Horizontal Angle Time of Day

Direct 7h 00m 00s 148° 32' 00" 21° 58' 30"

Reversed 7h 02m 15s 148° 19' 30" 21° 50' 30"

Direct 7h 02m 15s 148° 08' 30" 21° 41' 00"

Reversed 7h 01m 15s 148° 21' 00" 21° 55' 00"

Means 7h 01m 15s 148° 28' 30" 21° 58' 00"

corr. for ref. 1.48" 21' 15"

Decl. 18° 41' 21" N.

Cor. 4 = lat. 18° 41' 21" cos. 34° 30' 45" x cos. 21° 31' 15" = 1.48"

tan 21° 31' 15"

log. sin. 18° 41' 21" = 9.5027884

log. cos. 34° 30' 45" = 9.8123271

log. cos. 21° 31' 15" = 9.8623333

9.8623333 = 1.48" x 1000

log. tan. 34° 30' 45" = 9.8272418

log. tan. 21° 31' 15" = 9.5823230

9.5823230 = 1.48" x 1000

Cor. 6 = 1.48"

Cor. 7 = 1.48" x 1000

Bearing of reference object 1. 63° 54' 58" W.

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. I. O.

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

TABLE AND CALCULATIONS OF HOMESTEAD ENTRY SURVEY NO. 457, STATE OF ARIZONA.

CORNERS.	BEARING.	DISTANCE.	LATITUDES.		DEPARTURES.		DOUBLE M. D.	N. AREAS.	S. AREAS.
			NORTH.	SOUTH.	EAST.	WEST.			
1-2	N. 70° 00' W.	2.72	0 93		6	2 56	2 38		
2-3	N. 57° 08' E.	13.27	7 20		11 15	11 16	80 35	25 90	25 90
3-4	S. 82° 57' E.	7.16		0 88	7 11	29 43			
4-5	N. 56° 26' E.	21.16	11 70		17 63	54 18	634 45		
5-6	N. 13° 32' W.	23.94	23 28		5 60	66 23	1542 50		
6-7	N. 79° 21' W.	6.60	1 22		6 49	54 15	66 06		
7-8	N. 27° 57' E.	14.51	12 82		6 80	54 47	698 85		
8-9	N. 5° 28' E.	7.04	7 01		0 67	61 95	434 27		
9-10	N. 14° 29' W.	11.52	11 15		2 88	59 75	666 21		
10-11	N. 76° 49' E.	2.07	0 47		2 02	58 90	27 68		
11-12	S. 14° 38' E.	14.28		13 82	3 61	64 54		891 94	
12-13	S. 14° 50' W.	12.51		12 09	3 20	64 97		785 49	
13-14	S. 25° 04' E.	13.78		12 48	5 84	67 63		844 02	
14-15	S. 1° 01' E.	8.26		8 26	0 15	73 63		608 18	
15-16	S. 27° 49' E.	14.14		12 51	6 60	80 39		1005 68	
16-17	S. 84° 30' W.	8.90		0 85	8 86	78 14		66 42	
17-18	S. 54° 23' W.	18.86		10 98	15 33	53 96		591 94	
18-19	N. 85° 17' W.	6.33	0 52		6 51	32 33	16 81		
19-1	S. 66° 51' W.	11.36		4 47	10 45	15 57		69 60	
		218.41	76 30	76 34	61 58		4169 56	4889.17	
			76 33	76 33	61 64			4169 56	
					61 64			719 61	
								35 98	Acres.
Closing error 1:2028									
<i>Checked by...</i>									

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. I. 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. 457, STATE OF Arizona

CORNERS.	BEARING.	DISTANCE.	LATITUDES.		DEPARTURES.		DOUBLE M. D.	N. AREAS.	S. AREAS.
			NORTH.	SOUTH.	EAST.	WEST.			
	S. 89-50 E.	40.56		12	40.56				
	N. 0-08 E.	40.45	40 45		09				
	N. 0-11 E.	40.40	40 40		13				
	N. 89-39 W.	40.46	25		40.46				
	S. 89-39 W.	47.31	29		47 31				
	S. 0-20 E.	40.36	40 36		23				
	South	40.35	40.35						
	S. 89-43 E.	46.77	23		46 77				
			81 10	81 35	87 78	87 77			
			81 10	81 10	87 77	87 77			
			25	25	01	01			

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APPROVAL

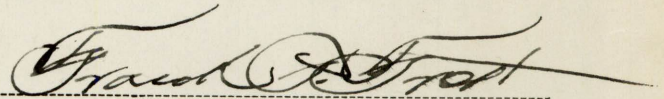
Office of the United States Surveyor General,

Phoenix, Arizona, May 8, 1920

The foregoing field notes of Homestead Entry Survey No.

457

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.



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.