

ORIGINAL

147

U. S. DEPARTMENT OF AGRICULTURE

FOREST SERVICE

AUG. 2- 1917

FIELD NOTES

JUN 17. 1918

JAN 20. 1919

OF

HOMESTEAD ENTRY SURVEY NO. 458

SITUATED IN THE SITGREAVES NATIONAL FOREST

ADMINISTRATIVE DISTRICT NO. 3

In Section 26, - surveyed, Township 13 N., Range 12 E.

of the

Gila and Salt River Base and Meridian.

State of

ARIZONA

Applicant for listing H. L. Taylor, ✓  
 Residence Winslow, Arizona  
 Application No. 398 ✓, dated September 28, 1912 ✓  
 List No. 3-2262 ✓, dated February 10, 1913 ✓

Applicant for survey Stelzer Tillman, ✓  
 Residence Winslow, Arizona  
 H. E. No. 025070 ✓, dated May 9, 1914 ✓  
 Office  
 Land District Phoenix, Arizona

Survey executed by R. P. A. Johnson, Surveyor - Draftsman  
 (Forest Service Title.)  
 Under special instructions dated April 17, 1916 ✓  
 Survey commenced June 15, 1916  
 Survey completed June 17, 1916  
 Under Acts of June 11, 1906 and March 4, 1915 ✓

148

OATH OF ASSISTANTS

We hereby certify that we assisted

*Surveyor Draftsman*  
[Forest Service Title.]

*R. P. A. Johnson*

in surveying all those

parts or portions of Homestead Entry Survey No. *458*, 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 H. Newman*, Chainman

*Orin Childers*, Chainman

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

*July*, 1916.

*R. P. A. Johnson*  
Surveyor Draftsman

OATH OF SURVEYOR

I, *R. P. A. Johnson*, Surveyor Draftsman  
[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, 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 No. 3-2262 dated February - 10, 1913 and a tract of land upon the application of Stelzer Tillman Application, No. 398, dated September 28, 1912, for Listing and Patent*, under the Act of *June 11, 1906*, the same to be known as Homestead Entry Survey No. *458*, situated within the *Sitgreaves* National Forest, in  
- surveyed Section *26*, Township *13 N*, Range *12 E*, and  
- surveyed Section - - - - - , Township - - - - - , Range - - - - - ,

of the *Gila and Salt River Basins* 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.

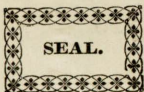
DISTRICT OF COLUMBIA  
CITY OF WASHINGTON

Subscribed and sworn to before me this *14<sup>th</sup>* day of

*February*, 1917.

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

*Sylvester L. McLaughlin*  
NOTARY PUBLIC, D. C.



8-2349

Commission expires  
June 20, 1918.

SITGREAVES NATIONAL FOREST

STATE OF ARIZONA

Chains

Applicant for listing, H. L. Taylor; Application No. 398, dated September 28, 1912; List No. 3-2262, dated February 10, 1913; H. E. 025070, made in the Phoenix Land Office on May 9, 1914 by Stelzer Tillman.

Also a tract of unlisted land adjoining claimant's entry was included in this survey; the land is agricultural in character, was desired by entryman and will be listed as a basis for amendment of his Entry No. 025070. This is therefore a Composite Survey. Surveyed under special instructions from the Surveyor General for Arizona, dated April 17, 1916 and designated as Homestead Entry Survey No. 458.

Situated in Section 26, T. 13 N., R. 12 E., Gila and Salt River Base and Meridian, Sitgreaves National Forest, Arizona.

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

Survey commenced June 15, 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 15, 1916, p.m.  
I observe the altitude of the sun for azimuth at cor. No. 10 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° 29' 30" N., Long. 111° 04' W., from special instructions from the Surveyor General.

SITGREAVES NATIONAL FOREST

STATE OF ARIZONA

Chains	Telescope	Time	Horizontal Angle	Vertical Angle
	Direct	3h. 55m. 34s.	85° 42' 00"	38° 03' 30"
	Reversed	3h. 56m. 37s.	86° 13' 30"	38° 20' 30"
Bearing of reference object, N. 0° 02' 31" E.				

June 16, 1916, a.m.

I again observe the altitude of the sun for azimuth at cor. No. 10, hereinafter described. The reading on meridian determined by last night's direct solar 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	6h. 59m. 07s.	77° 43' 30"	24° 37' 30"
Reversed	6h. 59m. 54s.	77° 15' 00"	24° 14' 00"

Bearing of reference object is N. 0° 00' 20" E.  
This defines a meridian that differs 0° 00' 20" from the meridian determined by last night's direct solar, and

from the mean of these two observations, all the courses of this survey were deflected.

RETRACEMENT

From the 1/4 sec. cor. bet. secs. 23 and 26, T. 13 N., R. 12 E., which is a sandstone 15 x 5 x 8 ins. above ground, marked 1/4 on N. face. No mound, one witness gone. I raise a mound of stone 3 ft. base, 2 ft. high N. of cor., whence:

A yellow pine, 15 ins. dia., bears N. 10° 45' W.,

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

(Original witness).

A yellow pine, 9 ins. dia., bears S. 8° W.,

26 lks. dist., marked 1/4 S 26 B T.

Thence West.

On random line bet. secs. 23 and 26.

40.47 Fall 6 lks. N. of cor. for secs. 22, 23, 26 and 27, which

SITGREAVES NATIONAL FOREST

STATE OF ARIZONA

Chains

is a sandstone 12 x 5 x 10 ins. above ground, marked and witnessed as described by the Surveyor General.  
Return course N. 89° 55' E.; 40.47 chs.

BOUNDARIES OF CLAIM

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

23 and 26.

Deposit a limestone 3 x 2 x 1 ins. marked with a +, 16

ins. in the ground, over which set a limestone 26 x 14

x 6 ins., chiseled + for the point, 1 - H E S 458 on

SW. face and C C on S. face; and raise a mound of stone

3 ft. base, 2 ft. high S. of cor., whence:

A yellow pine, 8 ins. dia., bears N. 49° 57' E.,

21 lks. dist., scribed 1 H E S 458 + B T.

A yellow pine, 9 ins. dia., bears S. 72° 58' E.,

67 lks. dist., scribed 1 H E S 458 + B T.

Cor. for secs. 22, 23, 26 and 27, heretofore

described, bears S. 89° 55' W., 26.73 chs. dist.

1/4 sec. cor. bet. secs. 23 and 26, heretofore

described, bears N. 89° 55' E., 13.74 chs. dist.

Lat. 34° 29' 55" N., Long. 111° 04' 02" W., from special instructions from the Surveyor General.

Mag. decl. at 7 a.m., 14° 20' E., mean mag. decl. 14° 24' E.

Thence S. 10° 42' E.

Over unlisted land along foot of West slope in open.

12.68

To cor. No. 2.

Deposit a limestone 5 x 4 x 1 ins. marked with a +, 16

ins. in the ground, over which set a limestone 26 x 14

x 4 ins., chiseled + for the point and 2 - H E S 458 on

W. face; and raise a mound of stone 3 ft. base, 2 ft.

high W. of cor., whence:

A yellow pine, 14 ins. dia., bears S. 72° 07' E.,

SITGREAVES NATIONAL FOREST

STATE OF ARIZONA

Chains	<p>99 lks. dist., scribed 2 H E S 458 + B T.  A yellow pine, 6 ins. dia., bears S. 25° 45' E.,  80 lks. dist., scribed 2 H E S 458 + B T.</p>
<p>10.30 17.40</p>	<p>Thence S. 2° 20' E.  Ascend 30 ft. along West slope in edge of timber.  Top ascent. Descend 25 ft. to cor.  To cor. No. 3.  Deposit a limestone 6 x 6 x 1 ins. marked with a +, 16 ins. in the ground, over which set a limestone 26 x 8 x 8 ins., chiseled + for the point and 3 - H E S 458 on SW. face; and raise a mound of stone 3 ft. base, 2 ft. high SW. of cor., whence:  A + on face of an 8 ft. limestone cliff, bears S. 64° 35' E., 23 lks. dist., marked B R 3 H E S 458.  An oak, 8 ins. dia., bears N. 1° 06' E., 84 lks. dist., scribed 3 H E S 458 + B T.</p>
<p>8.00 9.15</p>	<p>Thence S. 72° 59' E.  Along foot of South slope.  Fence bears S. 73° E. and N. 74° W.  To cor. No. 4.  Deposit a limestone 6 x 6 x 2 ins. marked with a +, 16 ins. in the ground, over which set a limestone 26 x 10 x 8 ins., chiseled + for the point and 4 - H E S 458 on S. face; and raise a mound of stone 3 ft. base, 2 ft. high, S. of cor., whence:  A + on face of a 6 ft. limestone cliff, bears N. 26° 02' E., 49 lks. dist., scribed B R - 4 H E S 458.  A yellow pine, 36 ins. dia., bears N. 18° 30' W., 84 lks. dist., scribed 4 H E S 458 + B T.</p>

SITGREAVES NATIONAL FOREST

STATE OF ARIZONA

153

Chains

Thence N. 56° 49' E. Ascend 30 ft. along edge of timber to cor.

4.27 To cor. No. 5.

Deposit a limestone 4 x 4 x 4 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 5 - H E S 458 on S. face; and raise a mound of stone 3 ft. base, 2 ft. high S. of cor., whence:

A yellow pine, 30 ins. dia., bears S. 59° 22' W., 83 lks. dist., scribed 5 H E S 458 + B T.

A yellow pine, 38 ins. dia., bears S. 73° 54' E., 18 lks. dist., scribed 5 H E S 458 + B T.

Thence S. 33° 48' E.

Descend 25 ft. along South slope and edge of timber to cor.

4.83 North edge corral, 30 ft. dia., fence bears N. 75° W. and along line.

4.85 Cor. H-2 of the list survey, which is a limestone 12 x 12 x 6 ins. above ground, marked and witnessed as described by the Forest Service. I destroy all trace of this list cor. Leave unlisted and enter listed land.

26.73 To cor. No. 6.

Identical with cor. H-3 of the list survey, which is a limestone 8 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 1 ins. marked with a +, 18 ins. in the ground, over which set a limestone 28 x 10 x 4 ins., chiseled + for the point and 6 - H E S 458 on NW. face; and raise a mound of stone 3 ft. base, 2 ft. high NW. of cor., whence:

A yellow pine, 6 ins. dia., bears N. 18° 30' E., 102 lks. dist., scribed 6 H E S 458 + B T.

SITGREAVES NATIONAL FOREST

STATE OF ARIZONA

Chains

A yellow pine, 6 ins. dia., bears N. 49° 45' E.,  
130 lks. dist., scribed 6. H E S 458 + BT.

Thence S. 72° .07' W.

Leave listed and enter unlisted land. Across open  
draw, drains NW.

0.40 Arroyo, 5 lks. wide, 1/2 ft. deep, course NW.

0.67 Fence bears N. 77° W. and S. 77° E. Leave draw.

Ascend 35 ft. in timber to point of ridge.

3.30 Top ascent on points of ridge, bears NW. and SE. Descend  
35 ft. to arroyo.

5.40 Leave timber, bears N. and S.

7.10 Arroyo, 5 lks. wide, 1 ft. deep, course NNE. Ascend  
10 ft. to cor.

9.23 To cor. No. 7.

Deposit a limestone 5 x 5 x 1 ins. marked with a +, 14  
ins. in the ground, over which set a limestone 24 x 8  
x 6 ins. chiseled + for the point and 7 - H E S 458 on  
NE. face; and raise a mound of stone 3 ft. base, 2 ft.  
high NE. of cor., whence:

A 38 in. yellow pine, bears S. 2° 22' W., 42  
lks. dist., scribed 7 H E S 458 + BT.

A 36 in. yellow pine, bears S. 60° 26' W., 80  
lks. dist., scribed 7 H E S 458 + B T.

Cor. H-4 of the list survey, which is a lime-  
stone 10 x 3 x 6 ins. above ground, marked

and witnessed as described by the Forest Ser-  
vice, bears N. 16° 45' E., 4.48 chs. dist.

I destroy all trace of this list cor.

Thence N. 8° .09' E.

Descend 5 ft. along East slope in edge of timber.

8.25 To cor. No. 8.

Identical with cor. H-5 of the list survey, which is



155

SITGREAVES NATIONAL FOREST

STATE OF ARIZONA

Chains a limestone 8 x 4 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  
5 x 2 x 2 ins. marked with a +, 16 ins. in the ground,  
over which set a limestone 26 x 10 x 4 ins., chiseled  
+ for the point and 8 - H E S 458 on E. face; and raise  
a mound of stone 3 ft. base, 2 ft. high E. of cor.,  
whence:

A yellow pine, 6 ins. dia., bears N. 9° 05' W.,

51 lks. dist., scribed 8 H E S 458 + B T.

A yellow pine, 4 ins. dia., bears N. 50° 24' W.,

44 lks. dist., scribed 8 H E S 458 + B T.

Thence N. 35° 59' W.

Leave unlisted and enter listed land. Descend 10 ft.

along foot of NE. slope. Fence on line.

12.78 To cor. No. 9.

Identical with cor. H-6 of the list survey, which is  
a limestone 16 x 4 x 8 ins. above ground, marked and  
witnessed as described by the Forest Service. I de-

stroy 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 8 ins., chiseled  
+ for the point and 9 - H E S 458 on N. face; and raise  
a mound of stone 3 ft. base, 2 ft. high N. of cor.,  
whence:

An oak, 8 ins. dia., bears N. 26° 40' E., 14

lks. dist., scribed 9 H E S 458 + B T.

A yellow pine, 34 ins. dia., bears S. 50° 53' W.,

29 lks. dist., scribed 9 H E S 458 + B T.

Thence N. 72° 32' W.

In open over level land. Fence on line.

16.49 To cor. No. 10.

Chains  
 - 85 I  
 Identical with cor. H-7 of the list survey, which is a limestone 8 x 4 x 5 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 6 x 4 ins., chiseled + for the point and 10 - H E S 458 on NE. face; and raise a mound of stone 3 ft. base, 2 ft. high NE. of cor., whence:

A yellow pine, 6 ins. dia., bears N. 66° 34' W., 19 lks. dist., scribed 10 H E S 458 + B T.

A yellow pine, 8 ins. dia., bears N. 21° 07' W., 54 lks. dist., scribed 10 H E S 458 + B T.

Cor. H-1 of the list survey, which is a limestone 10 x 2 x 8 ins. above ground, marked and witnessed as described by the Forest Service, bears N. 32° 38' E., 2.90 chs. dist.

I destroy all trace of this list cor.  
 June 16, 1916.

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June 17, 1916.  
 Thence N. 15° 36' W.

Leave listed and enter unlisted land. Over level land in timber.

7.90 Leave timber, bears E. and W.

9.97 To cor. No. 11.

Deposit a limestone 5 x 2 x 1 ins. marked with a +, 14 ins. in the ground, over which set a limestone 24 x 12 x 4 ins. chiseled + for the point and 11 - H E S 458 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. 62° 43' W., 61 lks. dist., scribed 11 H E S 458 + B T.

SITGREAVES NATIONAL FOREST

STATE OF ARIZONA

Chains

A yellow pine, 16 ins. dia., bears N. 59° 48' W.,

59 lks. dist., scribed 11 H E S 458 + B T.

Thence N. 12° 11' E.

Along East slope, ascend 10 ft. in scattering young pine.

9.43 To cor. No. 12.

Deposit a limestone 8 x 3 x 3 ins. marked with a +, 16

ins. in the ground, over which set a limestone 26 x 7

x 7 ins., chiseled + for the point and 12 - H E S 458

on E. face; and raise a mound of stone 3 ft. base, 2

ft. high E. of cor., whence:

A yellow pine, 8 ins. dia., bears S. 67° 37' W.,

24 lks. dist., scribed 12 H E S 458 + BT.

A yellow pine, 7 ins. dia., bears N. 51° 20' E.,

30 lks. dist., scribed 12 H E S 458 + B T.

Thence N. 5° 16' W.

Descend 5 ft. along East slope and edge of timber.

13.05 To cor. No. 13 and C. C. on line bet. secs. 23 and 26.

Deposit a limestone 5 x 3 x 2 ins. marked with a +, 14

ins. in the ground, over which set a limestone 28 x 8

x 5 ins., chiseled + for the point, 13 - H E S 458 on

SE. face, CC on SSE. face; and raise a mound of stone

3 ft. base, 2 ft. high SSE. of cor., whence:

A yellow pine, 36 ins. dia., bears S. 14° W.,

65 lks. dist., scribed 13 H E S 458 + B T.

A yellow pine, 20 ins. dia., bears S. 66° 48' W.,

1.76 lks. dist., scribed 13 H E S 458 + B T.

Cor. for secs. 22, 23, 26 and 27, heretofore de-

scribed, bears S. 89° 55' W., 24.20 chs. dist.

1/4 sec. cor. bet. secs. 23 and 26, heretofore de-

scribed, bears N. 89° 55' E., 16.27 chs. dist.

SITGREAVES NATIONAL FOREST

STATE OF ARIZONA

Chains Thence N. 89° 55' E.  
 Descend 5 ft. in open along line bet. secs. 23 and 26.  
 1.20 Creek, 10 lks. wide, 1 ft. deep, course N.  
 2.53 To cor. No. 1, the place of beginning.

AREA

Area of Listed land - - - - - 11.90 acres  
 Area of Unlisted land - - - - - 16.49 acres  
 Total Area - - - - - 28.39 acres

IMPROVEMENTS

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

A two-room log dwelling, 26. x 18 ft., the long side of which bears ESE. and WNW. and the NW. cor. of which bears S. 3° 45' E., 2.54 chs. dist. from cor. No. 4.

Value ----- \$150.00

A log and dirt root cellar, 10. x 10 ft., the NE. cor. of which bears S. 32° E., 6.02 chs. dist. from cor. No. 5.

Value ----- \$ 75.00

A pole corral, 35 x 35 ft., the SW. cor. of which bears N. 16° 45' E., 4.50 chs. dist. from cor. No. 7.

Value ----- \$ 25.00

A pole corral, 30 ft. dia., bears S. 33° E., 5.00 chs. dist. from cor. No. 5.

Value ----- \$ 20.00

There is approximately 1 mile of wire fence.

Value ----- \$125.00

DESCRIPTION

This claim is situated in Pins Draw, and consists of a long narrow strip of open bottom land with steep timbered slopes to East and West. The general slope is

159

SITGREAVES NATIONAL FOREST

STATE OF ARIZONA

Chains

to the North and elevation is 7200 ft.

The soil is a sandy loam of good depth, fertile and produces good crops.

Timber consists of a few scattered mature yellow pine trees along boundary lines and approximately 1 acre of good pine reproduction in central portion.

Water for domestic use is obtained from a shallow well in bottom of draw. There is no water for irrigation.

The land is not known to be mineral in character.

CONFLICTS AND ADJOINING CLAIMS

There are no conflicting or adjoining claims. H. E. S. 456 is approximately 3/4 of a mile to West.

Winslow, Arizona, the nearest railroad point, post office and commercial center, is approximately 55 miles dist., 9 miles of which is rough trail, 11 miles fair wagon road and 35 miles is good wagon road.

TRAVERSE

Cor.	Course	Dist.	N	S	E	W	
1-2	S. 10° 42' E.	12.68		12.46✓	2.35✓		
2-3	S. 2° 20' E.	17.40		17.39✓	0.71✓		
3-4	S. 72° 59' E.	9.15		2.68✓	8.75✓		
4-5	N. 56° 49' E.	4.27	2.34✓		3.57✓		
5-6	S. 33° 48' E.	26.73		22.21✓	14.87✓		
6-7	S. 72° 07' W.	9.23		2.83✓		8.78✓	
7-8	N. 8° 09' E.	8.25	8.17✓		1.17✓		
8-9	N. 35° 59' W.	12.78	10.34✓			7.51✓	
9-10	N. 72° 32' W.	16.49	4.95✓			15.73✓	
10-11	N. 15° 36' W.	9.97	9.60✓			2.68✓	
11-12	N. 12° 11' E.	9.43	9.22✓		1.99✓		
12-13	N. 5° 16' W.	13.05	12.99✓			1.20✓	
13-1	N. 89° 55' E.	2.53			2.53✓		
			151.96✓	57.61	57.57	35.94	35.90
				57.57		35.90	

Error in Lat. and Dep. .04

Closing error, 1:2689.

Survey completed June 17, 1916.

*R. P. S. Johnson*  
Surveyor - Draftsman

Chains

The soil is a sandy loam of good depth, fertile and produces good crops.

Timber consists of a few scattered yellow pine trees along boundary lines and approximately 1 acre of good pine reproduction in central portion.

Water for domestic use is obtained from a shallow well in bottom of draw. There is no water for irrigation.

The land is not known to be mineral in character.

There are no conflicting or adjoining claims.

Approximately 3/4 of a mile to West Window, Arizona, the nearest railroad point, post office and commercial center, is approximately 3 miles distant.

2 miles of which is rough trail, 11 miles fair wagon road and 33 miles is good wagon road.

Course	Dist.	N	E	S	W
1-2	12.68			12.46	2.33
2-3	17.40			17.39	0.01
3-4	9.15			3.68	5.47
4-5	4.87	2.34			2.53
5-6	26.73			22.81	3.92
6-7	9.83			2.33	7.50
7-8	8.35	8.17			0.18
8-9	11.78	10.34			1.44
9-10	16.43	4.38			12.05
10-11	9.97	9.80			0.17
11-12	9.43	9.32			0.11
12-13	13.05	12.99			0.06
13-14	2.83			2.83	
Total		57.57		57.57	0.00
Error in Dist. and Deg.		0.00		0.00	0.00

Survey completed June 14, 1906.

Glenn H. ...

Surveyor - ...

SITGREAVES NATIONAL FOREST

STATE OF ARIZONA.

Chains

Direct Solar, June 15, 1916, at cor. No. 10

H. E. S. 458, Stelzer Tillman.

Lat.  $34^{\circ} 29' 30''$  N., Long.  $111^{\circ} 04' W.$  Elev. 7200 ft.

Telescope	Time	Horizontal Angle	Vertical Angle	Pos. Sun
Direct	3h. 55m. 34s.	$85^{\circ} 42' 00''$	$38^{\circ} 03' 30''$	$-^{\circ} +$
Reversed	3h. 56m. 37s.	$86^{\circ} 13' 30''$	$38^{\circ} 20' 30''$	$+^{\circ}$
	3h. 56m. 5s.	$85^{\circ} 57' 45''$	$38^{\circ} 12' 00''$	
			$0' 57''$ ✓	
			$38^{\circ} 11' 03''$ ✓	

Decl.  $23^{\circ} 20' 18''$  N.

$$\text{Cos. } Q. = \frac{\sin. 23^{\circ} 20' 18''}{\cos. 34^{\circ} 29' 30'' \times \cos. 38^{\circ} 11' 03''}$$

$$\tan. 34^{\circ} 29' 30'' \times \tan. 38^{\circ} 11' 03''$$

$$\log. \sin. 23^{\circ} 20' 18'' = 9.597871 \checkmark$$

$$\log. \cos. 34^{\circ} 29' 30'' = 9.916037 \checkmark$$

$$\log. \cos. 38^{\circ} 11' 03'' = 9.895438 \checkmark$$

$$9.786396 = \log. .61150 \checkmark$$

$$\log. \tan. 34^{\circ} 29' 30'' = 9.836999 \checkmark$$

$$\log. \tan. 38^{\circ} 11' 03'' = 9.895685 \checkmark$$

$$9.732684 = \log. .54036 \checkmark$$

$$\text{Cos. } Q. = .07114$$

$$Q. = 85^{\circ} 55' 14'' \checkmark$$

Bearing of reference object, N.  $0^{\circ} 02' 31''$  E.

HOMESTEAD ENTRY SURVEY NO. 458

SITGREAVES NATIONAL FOREST

STATE OF ARIZONA

Chains

Direct Solar, June 16, 1916, at cor. No. 10

H. E. S. 458, Stelzer Tillman.

Lat.  $34^{\circ} 29' 30''$  N., Long.  $111^{\circ} 04' W.$  Elevation 7200 ft.

Telescope	Time	Horizontal Angle	Vertical Angle
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Direct	6h. 59m. 07s.	$77^{\circ} 43' 30''$	$24^{\circ} 37' 30''$
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Reversed	6h. 59m. 54s.	$77^{\circ} 15' 00''$	$24^{\circ} 14'$
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	6h. 59m. 31s.	$77^{\circ} 29' 15''$	$24^{\circ} 25' 45''$
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$1' 38''$  ✓

$24^{\circ} 24' 07''$  ✓

Decl.  $23^{\circ} 21' 34'' N$

$$\text{Cos. } Q. = \frac{\sin. 23^{\circ} 21' 34''}{\cos. 34^{\circ} 29' 30'' \times \cos. 24^{\circ} 24' 07''} - \frac{\tan. 34^{\circ} 29' 30'' \times \tan. 24^{\circ} 24' 07''}{\cos. 24^{\circ} 24' 07''}$$

log. sin.  $23^{\circ} 21' 34'' = 9.598241$  ✓

log. cos.  $34^{\circ} 29' 30'' = 9.916037$  ✓

log. cos.  $24^{\circ} 24' 07'' = 9.959361$  ✓

$\frac{9.722843}{9.959361} = \text{log. } .52825$  ✓

log. tan.  $34^{\circ} 29' 30'' = 9.836999$  ✓

log. tan.  $24^{\circ} 24' 07'' = 9.656731$  ✓

$\frac{9.493730}{9.656731} = \text{log. } .31169$  ✓

Cos.  $Q. = .21656$

$Q. = 77^{\circ} 29' 30''$

Difference in meridians,  $0^{\circ} 00' 20''$ .



- 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. 458, STATE OF ARIZONA.

CORNERS.	BEARING.	DISTANCE.	LATITUDES.			DEPARTURES.		DOUBLE M. D.	N. AREAS.	S. AREAS.
			NORTH.	SOUTH.	EAST.	WEST.				
1-2	S. 10° 42' E.	12.68		12 46	2 35		8 97		111 77 ✓	
2-3	S. 2° 20' E.	17.40		17 39	0 71		12 02		209 15 ✓	
3-4	S. 72° 59' E.	9.15		2 68	8 75		21 47		57 54 ✓	
4-5	N. 56° 49' E.	4.27	2 34		3 57		33 79	79 07 ✓		
5-6	S. 33° 48' E.	26.73		22 21	14 87		52 22		1160 33 ✓	
6-7	S. 72° 07' W.	9.23		2 83		8 78	58 30		164 99 ✓	
7-8	N. 8° 09' E.	8.25	8 17		1 17		50 69	414 14 ✓		
8-9	N. 35° 59' W.	12.78	10 34			7 51	44 35	458 58 ✓		
9-10	N. 72° 32' W.	16.49	4 95			15 73	21 10	104 23 ✓		
10-11	N. 15° 36' W.	9.97	9 60			2 68	2 68	25 73 ✓		
11-12	N. 12° 11' E.	9.43	9 22		1 99		1 99	18 35 ✓		
12-13	N. 5° 16' W.	13.05	12 99			1 20	2 77	35 95 ✓		
13-1	N. 89° 55' E.	2.53			2 53		4 09	0 00		
		151.96	57 61	57 57	35 94	35 90		1136 05 ✓	1705 78 ✓	
			57 59	57 59	35 93	35 93			1136 05	
	Closing error	1:2689							567 73	
									28 386	Acres.

163

ZMH

APPROVAL

Office of the United States Surveyor General,

Phoenix, Arizona, November 9, 1918

The foregoing field notes of Homestead Entry Survey No.

458

executed by *R. P. A. Johnson, Surveyor-Draftsman* [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**  
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U. S. Surveyor General.

ORIGINAL

167

U. S. DEPARTMENT OF AGRICULTURE  
FOREST SERVICE

SEP 4- 1917

FIELD NOTES

DEC 17 1919

OF

HOMESTEAD ENTRY SURVEY NO. 459

SITUATED IN THE SITGREAVES NATIONAL FOREST

ADMINISTRATIVE DISTRICT NO. 3.

In Section 19 , -surveyed, Township 13 N., Range 13 E.

of the

Gila and Salt River Base and Meridian.

State of

Arizona.

Applicant for listing Hugh Barr, ✓

Residence Winslow, Arizona.

Application No. 416 ✓ , dated November 30 , 1912. ✓

List No. 3-2384 ✓ , dated March 13, , 1913. ✓

Applicant for survey Hugh Barr, ✓

Residence Winslow, Arizona.

H. E. No. 024141 ✓ , dated July 2 , 19 14 ✓

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 ✓ , 19 16.

Survey commenced June 12 , 19 16.

Survey completed August 2, , 19 19.

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

1.2645702

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. 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.

Nelson A. Neumann  
Chainman.  
Olin Childers  
Chainman.

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

R. P. A. Johnson  
Surveyor Draftsman

OATH OF SURVEYOR

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

Sixth 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 Basins 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.

