

U. S. DEPARTMENT OF AGRICULTURE
FOREST SERVICE

JUN 29 1917
MAR 2 - 1917

FIELD NOTES

OF

HOMESTEAD ENTRY SURVEY NO. 119

SITUATED IN THE TONTO NATIONAL FOREST

ADMINISTRATIVE DISTRICT NO. 3

In Section 22 , -surveyed, Township 10 N., Range 10 E.

In Section 23 , -surveyed, Township 10 N., Range 10 E.

of the

Gila and Salt River Base and Meridian.

State of

ARIZONA.

Applicant for listing James H. Brown,

Residence Payson, Arizona

Application No. 40 , dated April 26 , 1907

Application No. 490 , dated June 30 , 1914

List No. 472 , dated October 7 , 1907

Applicant for survey James H. Brown,

Residence Payson, Arizona

H. E. No. 04408 , dated June 8 , 1908

Office
Land District Phoenix, Arizona.

Survey executed by R. P. A. Johnson, Surveyor - Draftsman
[Forest Service Title.]

Under special instructions dated November 8 , 1913

Survey commenced May 15 , 1916

Survey completed May 17 , 1916

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

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OATH OF ASSISTANTS

We hereby certify that we assisted

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

in surveying all those

parts or portions of Homestead Entry Survey No. *119*, 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 F. Newman, Chairman

Ferry D. Lewis, Chairman

Subscribed and sworn to before me this *twenty seventh* day of *May*, 19*16*.

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 *November 8, 1913*, 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 472, dated October 7, 1907* and a tract of land upon application of *James H. Brown* Application No. *490*, dated *June 30, 1914*, for *patent*, under the Act of *June 11, 1906*, the same to be known as Homestead Entry Survey No. *119*, situated within the *Santa* National Forest, in
-surveyed Section *22*, Township *101N*, Range *10E*, and
-surveyed Section *23*, Township *101N*, Range *10E*,

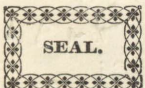
of the *Gila and Salt River* meridian, *Arizona*, and the related retracements and resurveys and section subdivisions, which are represented in the following field notes as having been surveyed by me; and I further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the stated special instructions, and in the specific manner described in the field notes, and that the following are the original field notes of such survey.

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

Subscribed and sworn to before me this *thirtyfirst* day of *March*, 19*17*

Ethel M. Gutchall

Notary Public



My Commission expires Mar. 17 1921

TONTONATIONAL FOREST

STATE OF ARIZONA.

Chains Applicant for listing, James H. Brown; Application No. 40, dated April 26, 1907; List No. 472, dated October 7, 1907; H. E. 04408, made in the Phoenix Land Office on June 8, 1908 by James H. Brown.

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. 04408, Application No. 490, dated June 30, 1914.

Surveyed under special instructions from the Surveyor General for Arizona, dated November 8, 1913 and designated as Homestead Entry Survey No. 119.

Situated in surveyed secs. 22 and 23, T. 10 N., R. 10 E., Gila and Salt River Base and Meridian, within the Tonto National Forest, Arizona.

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

Survey commenced May 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.

May 15, 1916.

I observe the altitude of the sun for azimuth at cor. No. 1 of this survey. The reading on the reference object is set at zero and the sun was observed in the lower

Chains left and upper right quadrants of the field. My watch is set for local mean time. Lat. $34^{\circ} 11' 25''$ N., Long. $111^{\circ} 18' 26''$ W., from special instructions from the Surveyor General.

Telescope	Time	Horizontal Angle	Vertical Angle
Direct	8h. 00m. 24s.	$89^{\circ} 26' 00''$	$35^{\circ} 51' 00''$
Reversed	8h. 01m. 44s.	$89^{\circ} 53' 30''$	$35^{\circ} 35' 00''$

Bearing of reference object, N. $0^{\circ} 01' 06''$ E.

I again observe altitude of sun at the same Station. The reading on the reference object is set at zero and sun was observed in lower left and upper right quadrants of field.

Telescope	Time	Horizontal Angle	Vertical Angle
Direct	8h. 03m. 53s.	$88^{\circ} 56' 30''$	$36^{\circ} 34' 00''$
Reversed	8h. 05m. 18s.	$89^{\circ} 23' 00''$	$36^{\circ} 19' 00''$

Bearing of reference object, N. $0^{\circ} 00' 59''$ E.

The mean of these is N. $0^{\circ} 01' 02''$ E. and to the corresponding meridian all the courses of this survey are referred.

RETRACEMENTS.

May 15, 1916.

From cor. for secs. 22, 23, 26 and 27, T. 10 N., R. 10 E., which is a sandstone 10 x 4 x 6 ins. above ground, marked and witnessed as described by the Surveyor General.

Thence N. $0^{\circ} 01' W.$

On a random line bet. secs. 22 and 23.

39.89 Fall 17 lks. West of the 1/4 sec. cor. bet. secs. 22 and

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STATE OF ARIZONA

Chains 23, which is a granite stone 8 x 6 x 6 ins. above ground, marked as described by the Surveyor General.
Thence S. 0° 14' W.

On a true line bet. secs. 22 and 23.

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

From 1/4 sec. cor. bet. secs. 22 and 23, heretofore described.
Thence N. 0° 01' W.

On a random line bet. secs. 22 and 23.

40.00 Fall 16 lks. West of cor. for secs. 14, 15, 22 and 23, which is a granite stone 8 x 6 x 8 ins. above ground, marked and witnessed as described by the Surveyor General.
Thence S. 0° 13' W.

On a true line bet. secs. 22 and 23.

40.00 1/4 sec. cor. bet. secs. 22 and 23, heretofore described.

From cor. No. 4, H. E. S. No. 52, which is a diorite stone 14 x 4 x 3 ins. above ground, marked and witnessed as described by the Surveyor General. Stone is broken and in poor condition, therefore I restore it as follows: Deposit broken glass 14 ins. in the ground, over which set a granite stone 24 x 10 x 8 ins. chiseled + for the point and 4' - H E S 52 on NE. face.
Thence N. 25° 24' E.

On a random line 4-5 H. E. S. No. 52.

52.53 Fall 1-1/2 lks. to right of cor. No. 5, H. E. S. 52, which is a diorite stone 10 x 9 x 8 ins. above ground, marked and witnessed as described by the Surveyor General.
Thence S. 25° 23' W.

Chains
52.53

Cor. No. 4, H. E. S. No. 52, heretofore described.

May 15, 1916.

May 16, 1916.

Beginning at cor. No. 1 and C. C. on line bet. secs. 22

and 23.

Deposit broken glass, 12 ins. in the ground, over which set a granite stone 22 x 10 x 6 ins., chiseled + for the point, 1 - H E S 119 on N. face and C C on SE. face; and raise a mound of stone 3 ft. base, 2 ft. high SE. of cor., whence:

A juniper, 24 ins. dia., bears S. 60° 05' W.,
31 lks. dist., scribed 1 H E S 119 + B T.

A juniper 24 ins. dia., bears S. 61° 06' E.,
100 lks. dist., scribed 1 H E S 119 + B T.

Cor. for secs. 22, 23, 26 and 27, heretofore de-
scribed, bears S. 0° 14' W., 9.68 chs. dist.

1/4 sec. cor. bet. secs. 22 and 23, heretofore
described, bears N. 0° 14' E., 30.21 chs. dist.

Lat. 34° 11' 25" N., Long. 111° 18' 26" W., from special
instructions from the Surveyor General.

Mag. var. at 8:00 a.m., 14° 50' E. Mean mag. var.,

14° 47' E.

Thence N. 40° 53' W.

Over open level land, parallel to fence and 40 lks.

SW. Descend 10 ft. to arroyo. Over unlisted land.

8.50 Arroyo, 20 lks. wide, 8 ft. deep, course N. 80° E.

Ascend 10 ft. to cor.

12.26 To cor. No. 2.

Identical with point for cor. H-7 of the list survey.

This cor. was never established. At this point I

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STATE OF ARIZONA

Chains

deposit a diorite stone 4 x 4 x 2 ins. marked with a +,
14 ins. in the ground, over which set a diorite stone
24 x 12 x 8 ins., chiseled + for the point and 2 - H
E S 119 on NE. face; and raise a mound of stone 3 ft.
base, 2 ft. high NE. of cor., whence:

A juniper, 6 ins. dia., bears N. 32° 40' W.,

102 lks. dist., scribed 2 H E S 119 + B T.

A juniper, 4 ins. dia., bears S. 64° 58' W.,

117 lks. dist., scribed 2 H E S 119 + B T.

Thence N. 25° 30' E.

Along foot of East slope in open. Leave unlisted

and enter listed land.

1.50 Enter road, bears SE.

2.50 Leave road, bears N.

3.72 To cor. No. 3.

Deposit a broken glass, 14 ins. in the ground, over
which set a granite stone 24 x 10 x 8 ins., chiseled +
for the point and 3 - H E S 119 on NE. face; and raise
a mound of stone 3 ft. base, 2 ft. high NE. of cor.,
whence:

A juniper, 6 ins. dia., bears S. 42° 30' W.,

236 lks. dist., scribed 3 H E S 119 + B T.

A juniper, 6 ins. dia., bears S. 57° 36' E.,

157 lks. dist., scribed 3 H E S 119 + B T.

Point for cor. No. 6 of list survey, no evidence
of which was found, bears N. 25° 30' E., 278
lks. dist.

Thence N. 46° 48' W.

Ascend 60 ft. to point of ridge in brush. Leave
listed and enter unlisted land.

Chains

- 0.40 Road bears N. and S.
- 7.50 Top ridge bears NE. and SW. Descend 60 ft. in brush to arroyo.
- 15.40 Arroyo, 15 lks. wide, 6 ft. deep, course NE. Thence over gently rolling NE. slope, in edge of brush.
- 31.10 Fence bears NW. and SE.
- 32.00 Arroyo, 20 lks. wide, 10 ft. deep, course NE.
- 35.80 Fall 7 lks. SW. of point for cor. No. 5 of the list survey, no evidence of which is found.
-
- 36.10 Arroyo, 10 lks. wide, 3 ft. deep, course NE.
- 40.03 Fence bears N. 35° W. and S. 35° E.
- 43.05 Road, bears N. 35° W. and S. 35° E.
- 45.80 Cor. No. 4.
Deposit broken glass, 14 ins. in the ground, over which set a diorite stone 24 x 8 x 6 ins., chiseled cross for the point and 4 - H E S 119 on NE. face; and raise a mound of stone 3 ft. base, 2 ft. high NE. of cor., whence:
A juniper, 26 ins. dia., bears N. 53° 05' E., 167 lks. dist., scribed 4 H E S 119 + B T.
A juniper, 28 ins. dia., bears N. 16° 55' E., 144 lks. dist., scribed 4 H E S 119 + B T.
-
- Thence N. 5° 30' E.
Descend gentle NE. slope in brush to creek.
- 0.35 Road bears N. 35° W. and S. 35° E.
- 0.70 Fence, bears N. 35° W. and S. 35° E.
- 4.95 Fence, bears N. 55° E. and S. 55° W.
-
- 5.92 Road, bears N. 55° E. and S. 55° W.
- 8.50 Gibson Creek, 15 lks. wide, 4 ft. deep, course E.
Ascend gentle S. slope in brush to cor.

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Chains
15.00

To cor. No. 5.

Deposit a diorite stone 4 x 2 x 2 ins. marked with a +,
14 ins. in the ground, over which set a diorite stone
24 x 10 x 10 ins., chiseled cross for the point and
5 - H ES 119 on SE. face; and raise a mound of stone
3 ft. base, 2 ft. high SE. of cor., whence:

A juniper, 12 ins. dia., bears N. 29° 35' E.,

45 lks. dist., scribed 5 H ES 119 + B T.

A juniper, 28 ins. dia., bears N. 37° 14' W.,

146 lks. dist., scribed 5 H E S 119 + B T.

May 16, 1916.

May 17, 1916.

Thence, East.

Along SW. slope in brush to cor.

1.90 Road, bears N. and S.

6.77 Arroyo, 70 lks. wide, 5 ft. deep, course SW. Road,
bears NW. and SE.

14.65 Arroyo, 30 lks. wide, 5 ft. deep, course SW.

15.35 To cor. No. 6.

Deposit a diorite stone 2 x 2 x 1 ins. marked with a
+, 16 ins. in the ground, over which set a diorite
stone 26 x 8 x 6 ins., chiseled cross for the point
and 6 - H E S 119 on S. face; and raise a mound of
stone 3 ft. base, 2 ft. high, S. of cor., whence:

An oak, 20 ins. dia., bears S. 61° 05' E.,

178 lks. dist., scribed 6 H E S 119 + B T.

A juniper, 24 ins. dia., bears S. 16° 59' E.,

257 lks. dist., scribed 6 H E S 119 + B T.

Point for cor. No. 4 of list survey, no evidence

of which is found, bears S. 12° 59' W.,

Chains	3.78 chs. dist.
	Thence S. 52° 04' E.
	Along SW. slope in edge of brush. Ascend 20 ft. to ridge.
25.00	Road bears E. and W.
27.00	Top of ridge, bears NE. and SW.. Descend 20 ft. to cor.
29.40	Cor. No. 7 and C. C. on line bet. secs. 22 and 23.
	Deposit a diorite stone 2 x 2 x 2 ins. marked with a +, 14 ins. in the ground, over which set a diorite stone 24 x 9 x 8 ins., chiseled + for the point, and 7 H E S 119 on S. face and C C on NW. face; and raise a mound of stone 3 ft. base, 2 ft. high, NW. of cor., whence:
	An oak, 8 ins. dia., bears N. 31° 15' W., 72 lks. dist., scribed 7 H E S 119 + B T.
	An oak, 6 ins. dia., bears N. 28° 40' E., 89 lks. dist., scribed 7 H E S 119 + B T.
	Cor. for secs. 14, 15, 22 and 23, heretofore described, bears N. 0° 13' E., 29.38 chs. dist.
	1/4 sec. cor. bet. secs. 22 and 23, heretofore described, bears S. 0° 13' W., 10.62 chs. dist.
	Thence S. 55° 38' E.
	Over level brush land.
5.90	Arroyo, 20 lks. wide, 5 ft. deep, course SE. Ascend 30 ft. in brush to ridge.
13.00	Point of ridge, bears N. and S. Descend 30 ft. in brush to cor.
21.23	To cor. No. 8. On line 4-5 of H. E. S. No. 52.
	Identical with point for cor. No. 2 of the list survey,

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STATE OF ARIZONA

Chains

no evidence of which is found. Deposit a granite stone 4 x 2 x 2 ins. marked with a +, 14 ins. in the ground, over which set a granite stone 24 x 12 x 6 ins., chiseled + for the point and 8 - H E S 119 on SW. face; and raise a mound of stone 3 ft. base, 2 ft. high SW. of cor., whence:

An oak, 20 ins. dia., bears N. 66° 24' W., 263 lks. dist., scribed 8 H ES 119 + B T.

An oak, 28 ins. dia., bears N. 26° 12' E., 324 lks. dist., scribed 8 H E S 119 + B T.

Cor. No. 5, H. E. S. No. 52, heretofore described, bears N. 25° 23' E., 18.83 chs. dist.

Thence S. 25° 23' W.

Along line 5-4 H. E. S. 52. Descend open slope, 20 ft. to creek. Fence on line. Leave unlisted and enter listed land.

3.75 Cor. fence, fence bears SE. Continue along fence.

10.60 Gibson Creek, 100 lks. wide, 30 ft. banks, course SE.

Ascend 20 ft. in open to cor.

26.49 Cor. H-1 of the list survey, which is a granite stone 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. Leave listed and enter unlisted land.

26.50 Fence cor., fence bears S. 40° W., Leave fence.

33.70 To cor. No. 9.

Identical with cor. No. 4 of H. E. S. No. 52, which is a granite stone 10 x 8 x 10 ins. above ground, marked and witnessed as described by the Surveyor General.

I mark same stone 9 - H E S 119 on NW. face for cor.

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Chains No. 9 of this survey, and raise a mound of stone 3 ft. base, 2 ft. high NW. of cor., whence:
 A juniper, 14 ins. dia., bears S. 17° 45' E., 67 lks. dist., scribed 4 H E S 52. I add 9 H E S 119 + B T.
 A juniper, 20 ins. dia., bears S. 85° W., 58 lks. dist., scribed 4 H E S 52. I add 9 H E S 119 + B T.

Thence N. 63° 29' W.

Along open N. slope.

1.64 Fence bears N. 40° E. and S. 40° W.

2.88 Fence bears N. 30° W. and S. 30° E.

3.64 Cor. No. 1, the place of beginning.

AREA

Area in Sec. 22	116.64 acres
Area in Sec. 23	42.01 acres
Total Area	158.65 acres
Area of listed land	109.00 acres
Area of unlisted land	49.65 acres
Total Area	158.65 acres

IMPROVEMENTS

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

A frame house, 30 x 24 ft., the long side of which bears N. 60° W. and S. 60° E. and the NE. cor. of which bears S. 45° 39' E., 5.38 chs. dist. from cor. No. 3.

Value ----- \$250.00

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Chains	<p>A log cabin, 15 x 15 ft., the SW. cor. of which bears S. 71° 50' E., 4.55 chs. dist. from cor. No. 2.</p> <p>Value ----- \$ 20.00</p> <p>A frame barn, 50 x 32 ft., the long side of which bears N. and S. and the SW. cor. of which bears S. 74° 07' E. 1.07 chs. dist. from cor. No. 2.</p> <p>Value ----- \$500.00</p> <p>A frame chicken house, 16 x 12 ft., the long side of which bears N. and S. and the NW. cor. of which bears S. 34° 40' E., 3.60 chs. dist. from cor. No. 3.</p> <p>Value ----- \$ 25.00</p> <p>A well, 20 ft. deep, the center of which bears S. 48° 22' E., 5.24 chs. dist. from cor. No. 3.</p> <p>Value ----- \$ 50.00</p> <p>There is approximately 2-1/2 miles of wire fence.</p> <p>Value ----- \$300.00</p> <p>There is approximately 40 acres in cultivation.</p>
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DESCRIPTION

This tract lies in the upper end of Round Valley on Tonto Watershed. It is traversed by Gibson Creek, a tributary to Rye Creek.

The land consists of a open draw with low brush hills to N. and SW., which project for short distances across boundary lines of claim. The general slope is to the SE. with gentle NE. and SW. slopes to Gibson Creek, which traverses the center of claim from NW. to SE. and is a small stream of water with 30 ft. perpendicular walls on each side. The land is cut by small arroyo from 5 to 20 ft. deep.

The soil is a sandy loam from 15 to 25 ft. deep, and produces good crops without irrigation.

Chains Water for domestic use is obtained from a 20 ft. well
and stock water is obtained from Gibson Creek.
The cover consists of small oak, juniper and brush along
the boundary lines of claim. Its only commercial
value is for fire wood and posts.
I saw no indications of mineral upon the claim.

CONFLICTS AND ADJOINING CLAIMS.

The claim is joined on the East by patented H. E. S. No.
52 of H. S. Colcord. There are no conflicts or other
nearby claims.
Payson, Arizona, the nearest settlement, post office and
commercial center, is approximately 3 miles Northwest-
erly and is reached by good wagon road. Globe, the
most accessible railroad point, is 90 miles to South
and is reached by good wagon road.

TRAVERSES

Section 22, T. 10 N., R. 10 E.

Cor.	Course	Dist.	N	S	E	W
1-2	N. 40° 53' W.	12.26	9.27			8.02
2-3	N. 25° 30' E.	3.72	3.36		1.60	
3-4	N. 46° 48' W.	45.80	31.35			33.39
4-5	N. 5° 30' E.	15.00	14.93		1.44	
5-6	East	15.35			15.35	
6-7	S. 52° 04' E.	29.40		18.07	23.19	
7- $\frac{1}{2}$	S. 10° 13' W.	10.62		10.62		0.04
$\frac{1}{2}$ -1	S. 0° 14' W.	30.21		30.21		0.12
		<u>162.36</u>	<u>58.91</u>	<u>58.90</u>	<u>41.58</u>	<u>41.57</u>
	Error in Lat. and Dep.		<u>58.90</u>		<u>41.57</u>	<u>.01</u>

Closing error, 1:11481.

Chains

Section 23, T. 10 N., R. 10 E.

Cor.	Course	Dist.	N	S	E	W
1- $\frac{1}{4}$	N. 0° 14' E.	30.21	30.21		0.12	
$\frac{1}{4}$ -7	N. 0° 13' E.	10.62	10.62		0.04	
7-8	S. 55° 38' E.	21.23		11.98	17.52	
8-9	S. 25° 23' W.	33.70		30.45		14.45
9-1	N. 63° 29' W.	3.64	1.62			3.26
		99.40	42.45	42.43	17.68	17.71
Error in Lat. and Dep.			42.43			17.68
			.02			.03

Closing error, 1:2757.

Survey completed May 17, 1916.

R. P. A. Johnson
Surveyor - Draftsman

NATIONAL FOREST

STATE OF FLA. TO STATE

Chains

Chains

Dist.	Course	Dist.	Course	Dist.	Course
1.00	N. 0° 14' E.	30.31	N. 0° 13' E.	10.82	N. 0° 13' E.
31.0	N. 0° 13' E.	10.82	N. 0° 13' E.	10.82	N. 0° 13' E.
11.98	N. 0° 13' E.	31.33	N. 0° 13' E.	31.33	N. 0° 13' E.
30.48	N. 0° 13' E.	33.70	N. 0° 13' E.	33.70	N. 0° 13' E.
14.45	N. 0° 13' E.	3.64	N. 0° 13' E.	3.64	N. 0° 13' E.
33.3	N. 0° 13' E.	33.3	N. 0° 13' E.	33.3	N. 0° 13' E.
17.68	N. 0° 13' E.	43.43	N. 0° 13' E.	43.43	N. 0° 13' E.
17.68	N. 0° 13' E.	43.43	N. 0° 13' E.	43.43	N. 0° 13' E.
17.68	N. 0° 13' E.	43.43	N. 0° 13' E.	43.43	N. 0° 13' E.
17.68	N. 0° 13' E.	43.43	N. 0° 13' E.	43.43	N. 0° 13' E.

Closing error, 0.00
Error in lat. and dep. 0.00

Survey completed May 14, 1916.

Surveyor - D. J. ...

TONTON NATIONAL FOREST

STATE OF ARIZONA.

Chains

Direct Solar, May 15, 1916, at cor. No. 1.

Lat. 34° 11' 25", Long. 111° 18' 26" W. Elev. 5000 ft.

Telescope	Time	Horizontal Angle	Vertical Angle	Pos. Sun
Direct	8h. 03m. 53s.	88° 56' 30"	36° 34' 00"	o ⁺
Reversed	8h. 05m. 18s.	89° 23' 00"	36° 19' 00"	+
Mean	8h. 04m. 36s.	89° 09' 45"	36° 26' 30"	
			01' 06"	
			<u>36° 25' 24"</u>	

Decl., 18° 53' 20" N.

$$\text{Cos. } Q. = \frac{\sin. 18^\circ 53' 20''}{\cos. 34^\circ 11' 25'' \times \cos. 36^\circ 25' 24'' - \tan. 34^\circ 11' 25'' \times \tan. 36^\circ 25' 24''}$$

log. sin. 18° 53' 20" = 9.510188
 log. cos. 34° 11' 25" = 9.917598
 log. cos. 36° 25' 24" = 9.905608
9.686982 = log. .48639

log. tan. 34° 11' 25" = 9.832094
 log. tan. 36° 25' 24" = 9.867993
9.700087 = log. .50129

Cos. Q. = .01490
 Q. = 89° 08' 46"

Bearing of reference object, N. 0° 00' 59" E.

Direct Solar, May 15, 1916, at cor. No. 1.

Lat. 34° 11' 25" N. Long. 111° 18' 26" W. Elev. 5000 ft.

Telescope	Time	Horizontal Angle	Vertical Angle	Pos. Sun
Direct	8h. 00m. 24s.	89° 26' 00"	35° 51' 00"	o ⁺
Reversed	8h. 01m. 44s.	89° 53' 30"	35° 35' 00"	o ⁺
	8h. 01m. 04s.	89° 39' 45"	35° 43' 00"	
			01' 07"	
			<u>35° 41' 53"</u>	

Decl., 18° 53' 20"

$$\text{Cos. } Q. = \frac{\sin. 18^\circ 53' 20''}{\cos. 34^\circ 11' 25'' \times \cos. 35^\circ 41' 53'' - \tan. 34^\circ 11' 25'' \times \tan. 35^\circ 41' 53''}$$

log. sin. 18° 53' 20" = 9.510188 ✓
 log. cos. 34° 11' 25" = 9.917598 ✓
 log. cos. 35° 41' 53" = 9.909611 ✓
9.682979 = log. .48192 ✓

log. tan. 34° 11' 25" = 9.832094 ✓
 log. tan. 35° 41' 53" = 9.856439 ✓
9.688533 = log. .48813 ✓

Cos. Q. = .00621 ✓
 Q. = 89° 38' 39" ✓

Bearing of reference object, N. 0° 01' 06" E.

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. 119, STATE OF ARIZONA.

CORNERS.	BEARING.	DISTANCE.	LATITUDES.		DEPARTURES.		DOUBLE M. D.	N. AREAS.	S. AREAS.
			NORTH.	SOUTH.	EAST.	WEST.			
Sec. 22 1-2	N. 40° 53' W.	12.26	9 27			8 92	71 62	663 92	
2-3	N. 25° 30' E.	3.72	3 36		1 60	33 39	65 20	219 07	
3-4	N. 46° 48' W.	45.80	31.35				33 40	1046 76	
4-5	N. 5° 30' E.	15.00	14 93		1 44		1 44	21 50	
5-6	East	15.35			15 35		18 23		
6-7	S. 52° 04' E.	29.40		18 07	23 19		56 77		1025 83
7-1/4	S. 0° 13' W.	10.62		10 62		0 04	79 92		848 75
1/4-1	S. 0° 14' W.	30.21		30 21		0 12	79 76		2409 55
Closing error, 1:11481									
Sec. 23 1-1/4	N. 0° 14' E.	30.21	58 91	58 90	41 58	41 58		1951 25	4284 13
1/4-7	N. 0° 13' E.	10.62	20 21		0 12		0 13	3 93	
7-8	S. 55° 38' E.	21.23	10 62	11 98	0 04	17 52	0 30	3 19	214 08
8-9	S. 25° 23' W.	33.70		30 45		14 45	20 96		638 44
9-1	N. 63° 29' W.	3.64	1 62			3 26	3 26	5 28	
Closing error, 1:2757.									
		99.40	52 45	52 43	17 68	17 71		12 40	852 52
			52 44	52 44	17 70	17 70		12 40	12 40
								840 12	42 01 Acres.

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			70 818	08 86	83 91	83 91	83 91	83 91	83 91	83 91	83 91
			97 8401	04 83	83 91	83 91	83 91	83 91	83 91	83 91	83 91
			86 83	AD I	83 91	83 91	83 91	83 91	83 91	83 91	83 91
			87 8401	04 83	83 91	83 91	83 91	83 91	83 91	83 91	83 91
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• PERIOD AD 811	88 833	83 IV	86 B	06 I	83 91	83 91	83 91	83 91	83 91	83 91	83 91
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			86 83	AD I	83 91	83 91	83 91	83 91	83 91	83 91	83 91
			87 8401	04 83	83 91	83 91	83 91	83 91	83 91	83 91	83 91
			86 83	AD I	83 91	83 91	83 91	83 91	83 91	83 91	83 91

• PAPER: I, TOTUS GALDIO

APPROVAL

Office of the United States Surveyor General,

Phoenix, Arizona JUL 19 1917 , 191

The foregoing field notes of Homestead Entry Survey No.

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executed by *R. P. A. Johnson, Surveyor-Draftsman* [Forest Service Title.]
under his special instructions, dated *November 8*, 1913, 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.