

101

U. S. DEPARTMENT OF AGRICULTURE

FOREST SERVICE

JUL 2-1917

FIELD NOTES

OF

HOMESTEAD ENTRY SURVEY NO. 418

SITUATED IN THE TONTO NATIONAL FOREST

AUG 20 1917

ADMINISTRATIVE DISTRICT NO. 3.

MAY 24 1918

In Section 31, unsurveyed, Township 11 N., Range 11 E.

In Section 32, unsurveyed, Township 11 N., Range 11 E.

of the

Gila & Salt River Base and Meridian.

State of
ARIZONA.

Inspection report herewith

Applicant for listing Louis Barnini. ✓

Residence Payson, Arizona.

Application No. 25 ✓, dated February 17, 19 07. ✓

List No. 1593 ✓, dated May 22, 19 08. ✓

List No. 3-568 ✓, dated July 15, 1910. ✓

Applicant for survey Andrew M. Ogilvie. ✓

Residence Payson, Arizona.

H. E. No. 017636 ✓, dated May 4, 19 12. ✓
Office

Land District Phoenix, Arizona.

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

Under special instructions dated September 23, 19 15. ✓

Survey commenced December 11, 19 15.

Survey completed April 24, 19 16.

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

OATH OF ASSISTANTS

We hereby certify that we assisted R. P. A. Johnson
Surveyor Draftsman in surveying all those
[Forest Service Title.]

parts or portions of Homestead Entry Survey No. 418, 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.

Nelson A. Newman, Chairman
Ferry D. Lewis, Chairman

Subscribed and sworn to before me this twenty seventh day of
May, 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 instruc-
tions of the United States Surveyor General for Arizona, dated
, 19 , 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 Lists No. 1593 and 3-568, dated May 22, 1908 and
July 15, 1910, and a tract of land which will be listed to Andrew M.

Ogilvie upon
Application, No. 25, dated February 17, 1917, for
patent, under the Act of June 11, 1906,
the same to be known as Homestead Entry Survey No. 418,
situated within the Tonto National Forest, in
unsurveyed Section 31, Township 11N, Range 11E, and
unsurveyed Section 32, Township 11N, Range 11E,

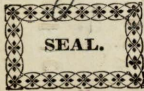
of the Gila and Salt River Base and meridian, Arizona, and the
related retracements and resurveys and section subdivisions, which are
represented in the following field notes as having been surveyed by me;
and I further solemnly swear that all the corners of said survey have
been established and perpetuated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

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

Subscribed and sworn to before me this 23rd day of

January, 1917.

Gluester L. McCarroll
NOTARY PUBLIC, D. C.



Commission expires
June 20, 1918.

TONTONATIONAL FOREST

1.

STATE OF ARIZONA

Chains Applicant for listing, Louis Barnini; Application No.

25, dated February 17, 1907; List. Nos. 1593 and 3-568, dated May 22, 1908 and July 15, 1910; H. E. 017636 made in the Phoenix Land Office on May 4, 1912 by Andrew M. Ogilvie.

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. 017636.

List No. 3-568 in this case was made by legal subdivisions in a township which was never legally surveyed.

No attempt was made to locate original lines on the ground. This survey is therefore in the nature of a cooperative survey and will be used as a basis for amendatory listing and entry. Township 11 N., R. 11 E., was surveyed under Contract No. 116 by U. S. Deputy Surveyors, Campbell and Oakes, dated April 18, 1904. The east boundary and subdivisions were finally rejected on January 8, 1909. The retracement of portions of south and west boundaries under this contract were accepted on same date.

Surveyed under special instructions from the Surveyor General for Arizona, dated September 23, 1915 and designated as Homestead Entry Survey No. 418.

Situated in what will probably be, when surveyed,

Sec. 31 and 32, T. 11 N., R. 11 E., Gila and Salt River Base and Meridian, Tonto National Forest, Arizona.

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

2.

TONTO NATIONAL FOREST

STATE OF ARIZONA

Chains Survey commenced December 11, 1915, 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:

December 11, 1915.

At 5h. 05.7m. p.m. 1.m.t. I observe Polaris at Cor. No. 1, hereinafter described, and the reading on the reference object is set at zero.

Latitude 34° 15' N., Long. 111° 15' 26" W., from

Special Instructions from the Surveyor General and later verified.

Telescope	Time	Horizontal Angle
Direct	5h. 05m. 40s.	11° 35' to W. of Pol.
Astron. 1.m.t. U.C. Pol. December 11, 1915,	8h. 12.3m.	
Astron. 1.m.t. obsn., December 11, 1915,	<u>5h. 5.7m.</u>	
	3h. 6.6m.	
Longitudinal correction		<u>1.2m.</u>
Hour angle of Pol. at obsn.	3h. 5.4m.	
Azimuth of Polaris, 1° 00' 41" E.		
Bearing of reference object N. 10° 34' 19" W.		

At 5h. 8.6m. p.m., 1.m.t., I again observe Polaris at Cor. No. 1 and set reading on reference object at zero.

Chains

Telescope	Time	Horizontal Angle
Reversed	5h. 8m. 36s.	11° 34' 30" to W. of Pol.
Astron. l.m.t. U. C. Pol.	December 11, 1915,	8h. 12.3m.
Astron. l.m.t. obsn.,	December 11, 1915	<u>5h. 8.6m.</u>
		3h. 3.7m.
Longitudinal correction		<u>1.2m.</u>
Hour angle of Pol. at obsn.		3h. 2.5m.
Azimuth of Polaris, 0° 59' 35" E.		
Bearing of reference object, N. 10° 34' 55" W.		
The mean of these is N. 10° 34' 37" W., and from the		
corresponding meridian all the courses of this survey		
were deflected.		

December 13, 1915.

At apparent noon I observe the passage of the right and left limbs of sun across the meridian previously established at Cor. No. 1.

Sun's Limb	Watch Time
Right	11h. 46m. 43s.
Left	11h. 49m. 04s.

From this observation I calculated my watch to be 6m. slow l.m.t. and time of observations of Polaris on December 11 is corrected accordingly.

BOUNDARIES OF CLAIM

Beginning at Cor. No. 1.

I set a granite stone 24 x 14 x 10 ins. in the ground, over broken glass, chiseled + on top and 1-H E S 418 on NW. face; and raise mound of rock 3 ft. base, 2 ft. high NW. of cor., from which:

A juniper, 5 ins. dia., bears S. 17° 50' E.,

31 lks. dist. scribed 1 H E S 418 + B T.

4.

TONTON NATIONAL FOREST

STATE OF ARIZONA

Chains

A juniper, 5 ins. dia., bears S. 60° 24' W.,
68 lks. dist. scribed 1 H E S 418 + B T.
Cor. for Secs. 5, 6, 31 and 32, Ts. 10 and 11 N.,
R. 11 E., which is a granite stone 8 x 4 x 8
ins. above ground, marked as described by
Surveyor General, bears S. 37° 13' E., 24.86
chs. dist. by traverse, which appears at the
end of these notes.

Latitude 34° 15' N. Longitude 111° 15' 26" W., from
special instructions from the Surveyor General, and
later verified.

Mag. Va. at 5 p.m., 14° 30' E., Mean Mag. Va. 14° 31' E.
Thence N. 75° 06' W.

In oak brush. Descend 15 ft. to draw.

- .75 Fence cor. Fence bears W. and NNE.
- 1.80 Foot descent, thence across bottom.
- 5.90 Enter pond.
- 8.20 Leave pond.
- 10.50 Fence, bears NW. and SE.
- 15.52 To cor. No. 2.

At this point I deposit a granite stone 6 x 5 x 4 ins.,
marked with a + 14 ins. in the ground; over which I
set a granite stone 24 x 14 x 6 ins., 14 ins. in the
ground; chiseled (+) at the point and 2-HES 418 on
the NE. face; and raise a mound of stone 2 ft. base,
1-1/2 ft. high NE. of Cor., from which:

A yellow pine, 26 ins. dia., bears N. 53° 10' W.

36 lks. dist., scribed 2 H E S 418 + B T.

An oak, 4 ins. dia., bears N. 9° 18' E., 11 lks.

dist., scribed 2 H E S 418 + B T.

Thence N. 0° 03' W.

- 4.20 Fence, bears NW. and SE.

TONTON NATIONAL FOREST

STATE OF ARIZONA

Chains

6.00

To Cor. No. 3.

At this point I deposit a stone, 5 x 4 x 2 ins. marked with + 14 ins. in the ground; over which I set a granite stone 24 x 9 x 5 ins., 14 ins. in the ground; chiseled (+) at the point and 3-H E S 418 on the NE. face. No stones available for mounds, therefore dig pits 24 x 24 x 12 ins. crosswise on claim lines 3-1/2 ft. dist. and raise a mound of earth 4 ft. base, 2 ft. high, 3-1/2 ft. dist. NE. of Cor. from which:

A cottonwood, 14 ins. dia., bears S. 9° 07' E.

192 lks. dist., scribed 3 H E S 418 + B T.

A walnut, 8 ins. dia., bears S. 71° 36' W., 218

lks. dist., scribed 3 H E S 418 + B T.

Thence S. 89° 57' W.

Over open level land.

1.53 Fence, bears NW. and SE.

6.80 Enter oak brush, bears N. and S.

10.00 To Cor. No. 4.

At this point I deposit a stone 5 x 4 x 2 ins. marked with a + 14 ins. in the ground; over which I set a granite stone 24 x 10 x 8 ins., 14 ins. in the ground; chiseled (+) at the point and 4- H E S 418 on the NE. face. No stones available for mound, therefore dig pits 24 x 24 x 12 ins. crosswise on claim lines, 7 ft. dist.; and raise a mound of earth 4 ft. base, 2 ft. high NE. of Cor., from which:

An juniper, 12 ins. dia., bears N. 26° 10' E.,

32 lks. dist. scribed 4 H E S 418 + B T.

An oak, 8 ins. dia., bears S. 23° 34' E., 26 lks.

6.

TONTON NATIONAL FOREST

STATE OF ARIZONA

Chains	dist., scribed 4 H E S 418 + B T.	Chains
		00.0
	Thence N. 6° 54' E.	
	Along east boundary unsurveyed H. E. S. 420, Peter C. Haught. This line follows old property line.	
	Ascend 20 ft. to point.	
1.35	Point of ridge. Descend 20 ft. to flat:	
3.40	Base of ridge. Enter flat. Leave oak brush, bears ENE. and WSW.	
6.30	Enter lane, Continue along lane.	
13.60	Leave lane.	
14.80	Telephone line, bears ENE. and WSW.	
15.01	Road, bears ENE. and WSW.	
16.40	Leave flat. Ascend 15 ft. to point of ridge. Enter oak brush, bears E. and W.	
18.50	Point of ridge, bears NW. and SE. Descend 10 ft. to cor.	
20.26	To Cor. No. 5.	
	At this point I deposit a granite stone 7 x 6 x 5 ins., marked with a + 14 ins. in the ground; over which I set a sandstone 24 x 12 x 10 ins., 14 ins. in the ground; chiseled (+) at the point and 5 - H E S 418 on the SE. face; and raise a mound of stone 2 ft., base, 1-1/2 ft. high SE. of Cor. from which: A black oak, 6 ins. dia., bears N. 6° 45' W., 30 lks dist., scribed 5 H E S 418 + B T. A walnut, 8 ins. dia., bears S. 40° E., 68 lks. dist., scribed 5 H E S 418 + B T.	
	Thence S. 89° 52' E.	
	Descend 5 ft. to draw in oak brush.	

Chains

- .40 Enter draw. Leave oak brush, bears NW. and SE.
- 3.20 Base of hill. Ascend 60 ft. along S. slope. Enter oak brush, bears NW. and SE.
- 12.00 Top ascent. Descend 40 ft. to ravine.
- 17.20 Ravine, course S. Ascend 40 ft. along S. slope.
- 23.15 Top ascent. Descend 60 ft. to cor.
- 26.25 Leave oak brush, bears NNE. and SSW.
- 26.58 At this point I deposit a granite stone 5 x 3 x 3 ins., marked with a + 14 ins. in the ground; over which I set a sandstone 24 x 10 x 8 ins., 14 ins. in the ground; chiseled (+) at the point and W C 6 H E S 418 on the S. face; and raise a mound of stone 2 ft. base, 1-1/2 ft. high S. of Cor. from which:
 - A black oak, 4 ins. dia., bears N. 6° 45' E.,
 - 21 lks. dist., scribed W C 6 H E S 418 + B T.
 - A black oak, 14 ins. dia., bears S. 61° W. 27
 - lks. dist., scribed W C 6 H E S 418 + B T.
- 27.30 Enter wash, banks 2 ft. high, course South.
- 27.58 To Cor. No. 6.
Point for Cor. falls in center of wash and would not be permanent if set. I deposit a charred stake 10 ins. in the ground and reference cor. point with two witness corners.

December 13, 1913.

On April 22, 1916 I return to the claim and in accordance with instructions from the District Forester, I eliminate approximately 30 acres of non-agricultural land on the North and include an equivalent area of agricultural land on the South.

Chains

Survey executed with a Buff and Buff transit. I test the adjustments of the transit and make necessary corrections. I test the transit on the meridian established by me on December 11, 1915 at Cor. No. 1 of this survey and find it to be in adjustment. Azimuth carried by angulation and verified by Polaris obsn. at Cor. No. 7 hereinafter described.

April 22, 1916.

RETRACEMENT

Beginning at Cor. No. 4 of H. E. S. 53, which is a granite stone 12 x 6 x 10 ins. above ground, chiseled 43-H E S 53 on SW. face with mound of stone SW. of cor., whence:

A juniper, 6 ins. dia., bears N. 3° 51' W.,

24 lks. dist., scribed 4 H E S 53 B T.

Thence West. (recorded course.)

On random line along line 4-5 of H. E. S. 53.

29.89 Fall 14-1/2 lks. North of cor. No. 5 H. E. S. No. 53, which is a granite stone 8 x 6 x 10 ins. above ground in a mound of stone, whence:

A walnut, 26 ins. dia., bears N. 19° 23' E.,

73 lks. dist., scribed 5 H E S 53 B T.

Return course N. 89° 43' E., 29.89 chs.

From point for cor. No. 6.

Thence N. 0° 10' W.

Up wash.

1.50 Leave wash, banks 2 ft. high, course S.

2.00 At this point I deposit a sandstone 6 x 5 x 5 ins., 14 ins. in the ground, over which set a sandstone 24 x 12 x 8 ins., 14 ins. in the ground, chiseled (+) for the point and W C 6 H E S 418 on E. face; and raise a mound of stone 2 ft. base, 1-1/2 ft. high E. of cor. from which:

A walnut, 18 ins. dia., bears N. 56° W. 56

lks. dist., scribed W C 6 H E S 418 + B T.

Chains	<p>A black oak, 6 ins. dia., bears S. 34° 45' W., 71 lks. dist., scribed W C 6 H E S 418 + B T.</p> <p>2.50 Enter oak brush, bears NNE. and SSW. and ascend 60 ft. along East slope.</p> <p>10.00 Top ascent. Descend 50 ft. to draw.</p> <p>15.65 Foot of descent. Leave brush, bears NW. and SE.</p> <p>20.94 To Cor. No. 7.</p> <p>I deposit a granite stone 5 x 3 x 2 ins., 14 ins. in ground, over which set a granite stone 24 x 8 x 8 ins. 14 ins. in the ground, chiseled (+) at the point and 7 - H E S 418 on SE. face; and raise a mound of stone 2 ft. base, 1-1/2 ft. high around cor. to protect it, whence:</p> <p>An oak, 28 ins. dia., bears N. 85° 30' W., 104 lks. dist., scribed 7 H E S 418 + B T.</p> <p>An oak, 10 ins. dia., bears N. 34° 28' W., 123 lks. dist., scribed 7 H E S 418 + B T.</p> <p>Cor. for secs. 29, 30, 31 and 32 of <u>rejected</u> survey of T. 11 N., R. 11 E., which is a granite stone 8 x 6 x 10 ins. above ground, marked with 1 notch on South face and 5 notches on East face, bears N. 45° 02' E., 14.15 chs. dist. I destroy all trace of this cor. and its witnesses.</p>
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April 22, 1916.

At 8h. 11.8m. p.m., 1.m.t., I observe Polaris at cor.

No. 7 and reading on the reference object is set at zero.

Lat. 34° 15' 32" N. Long. 111° 15' 22" W., from special instructions from the Surveyor General.

10.

TONTON NATIONAL FOREST

STATE OF ARIZONA

Chains	Telescope	Time	Horizontal Angle
	Direct	8h. 11m. 50s.	1° 03' E. of Pol.
	Astron. l.m.t. U.C. Pol.,	April 22, 1916	11h. 27.9m.
	Astron. l.m.t. obsn.,	April 22, 1916,	8h. 11.8m.
	Longitudinal Correction		8h. 43.9m.
	Hour angle Pol. at obsn.		01.2m.
	Azimuth Polaris,	1° 02' 12" N.	
	Bearing of reference object,	N. 0° 00' 48" E.	

At 8h. 15.2m. p.m., l.m.t., I again observe Polaris at cor. No. 7 and set reading on reference object at zero.

Telescope	Time	Horizontal Angle
Reversed	8h. 15m. 14s.	1° 02' 30" E. of Pol.
Astron. l.m.t. U.C. Pol.,	April 22, 1916,	11h. 27.9m.
Astron. l.m.t. obsn.,	April 22, 1916,	8h. 15.2m.
Longitudinal Correction,		8h. 47.3m.
Hour angle Pol. at obsn.		01.2m.
Hour angle Pol. at obsn.		8h. 46.1m.
Azimuth Polaris,	1° 01' 18" W.	
Bearing of reference object,	N. 0° 01' 12" E.	

The mean of these is N. 0° 01' E., which checks the azimuth as carried forward within limits.

April 22, 1916.

April 24, 1916.

Thence East.

From cor. No. 7, over level land across draw.

4.70 Leave bottom, ascend steep slope 65 ft. to point of hill.

7.50 Top ascent. Descend steep slope 65 ft. to bottom.

9.00 Foot descent.

Chains	
12.55	Road, bears NE. and SW.
14.20	Irrigation ditch, 5 lks. wide, course S.
14.40	Road, bears N. and SE.
15.45	Box Canyon wash, 60 lks. wide, 1 ft. deep, course SW.
16.60	Telephone line, bears N. and S. Base hill, ascend 55 ft. to cor.
19.39	To cor. No. 8.
	At this point deposit a granite stone 4 x 4 x 2 ins. marked with a + 15 ins. in the ground, over which set a granite stone 25 x 12 x 8 ins., chiseled + for the point and 8 - H E S 418 on SW. face; and raise a mound of stone 3 ft. base, 2 ft. high SW. of cor., whence :
	An oak, 8 ins. dia., bears N. 13° 15' E., 27 lks. dist., scribed 8 H E S 418 + B T.
	An oak, 8 ins. dia., bears N. 80° W., 14 lks. dist., scribed 8 H E S 418 + B T.
	Thence S. 1° 10' E.
	Descend 40 ft. to ravine.
2.00	Ravine, course SE. Ascend 45 ft. to ridge.
3.50	Top ridge. Descend 20 ft. to ravine. Ridge bears NE. and SW.
4.90	Ravine, course SE. Ascend 20 ft. to ridge.
5.00	Fence, bears E. and W.
7.40	Top ridge, thence along top ridge, descending 20 ft. to cor. Ridge bears ENE. and WSW?
30.99	To cor. No. 9.
	At this point I deposit a granite stone 6 x 4 x 2 ins. marked with a + 14 ins. in the ground, over which set a granite stone 24 x 5 x 5 ins. chiseled + for the point and 9 - H E S 418 on SW. face; and raise a

12.11

TONTON NATIONAL FOREST

STATE OF ARIZONA

Chains	<p>mound of stone 3 ft. base, 2 ft. high SW. of cor., whence: A walnut, 10 ins. dia., bears S. 11° 10' E. 73 lks. dist., scribed 11 H E S 418 + B T. A juniper, 14 ins. dia., bears S. 87° 33' W.; 96 lks. dist., scribed 11 H E S 418 + B T. 1/4 cor. bet. secs. 30 and 31, rejected survey T. 11 N., R. 11 E., bears S. 89° 57' W., 9.91 chs. dist. I destroy all trace of this cor. and its witnesses.</p> <hr/> <p>Thence East. Leave listed and enter unlisted land, across culti- vated land, along fence.</p> <p>6.00 Leave cultivated land. Ascend 25 ft. slope to top of ridge.</p> <p>8.80 Top ascent. Descend 25 ft. to bottom.</p> <p>11.30 Foot descent, thence across bottom to cor.</p> <hr/> <p>13.43 To cor. No. 10.</p> <p>At this point I deposit broken glass 14 ins. in the ground, over which set a granite stone 24 x 15 x 7 ins., chiseled + for the point and 10 - H E S 418 on SW. face, whence.</p> <p>An oak, 12 ins. dia., bears N. 50° 15' W., 40 lks. dist., scribed 10 H E S 418 + B T.</p> <p>An oak, 10 ins. dia., bears N. 104 lks. dist., scribed 10 H E S 418 + B T.</p> <p>No stone available for mound.</p> <hr/> <p>Thence S. 1° 01' W. Along foot of west slope; fence on line.</p> <p>10.14 To cor. No. 11. On line 4-5 of H. E. S. No. 53. At cor. fence. Fence bears N. along line and WNW.</p>
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Chains At this point I deposit a sandstone 4 x 2 x 2 ins. marked with a + 14 ins. in the ground, over which set a granite stone 24 x 9 x 8 ins. chiseled + for the point and 11 - H E S 418 on NW. face; and raise a mound of stone 3 ft. base, 2 ft. high NW. of cor.

No witnesses available. Pits impracticable.

Thence S. 89° 43' W.

Along line 4-5 of H. E. S. No. 53, across open bottom.

22.10 Road, bears NW. and SE.

22.90 Box Canyon wash, 40 lks. wide, banks 1 ft. high, drains S.

Ascend 10 ft. to cor.

23.46 Cor. No. 12.

Identical with Cor. No. 5 H. E. S. No. 53 heretofore described. I mark same stone 12 - H E S 418 on N. face and raise a mound of stone 3 ft. base, 2 ft. high N. of cor., whence:

A walnut, 26 ins. dia., bears N. 19° 23' E.,

73 lks. dist., scribed 12 H E S 418 + B T.

No other witnesses available. Pits impracticable.

Thence N. 49° 22' W.

Along steep NE. slope.

14.19 To Cor. No. 13.

At this point I deposit a granite stone 6 x 6 x 6 ins. marked with a + 14 ins. in the ground, over which set a granite stone 24 x 12 x 10 ins. chiseled + for the point and 13 - H E S 418 on N. face; and raise a mound of stone 3 ft. base, 2 ft. high N. of cor., whence:

A walnut, 5 ins. dia., bears S. 53° 36' W.,

59 lks. dist., scribed 13 H E S 418 + B T.

14.

TONTON NATIONAL FOREST

STATE OF ARIZONA.

Chains A walnut, 10 ins. dia., bears S. 37° 14' E.,
85 lks. dist., scribed 13 H E S 418 + B T.

Thence S. 11° 47' W.
Along west slope, ascending 15 ft. to cor.

19.00 Fence, bears E. and W.

19.38 To Cor. No. 1, the place of beginning.

AREA

Listed area - - - - - 125.72 acres
Unlisted area - - - - - 34.23 acres
Total area - - - - - 159.95 acres

IMPROVEMENTS

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

A frame dwelling 30 ft. square, the chimney of which bears S. 13° W., 13.70 chs. dist. from Cor. No. 8.

Value - - - - - \$ 600.00

A frame barn, 60 x 40 ft., the long side of which bears N. and S. and NW. cor. of which bears S. 40° 15' W., 7.80 chs. dist. from cor. No. 8.

Value - - - - - \$ 500.00

A frame stable 30 ft. square, the NE. cor. of which bears S. 26° 10' W., 8.20 chs. dist. from Cor. No. 8

Value - - - - - \$ 250.00.

A corn crib 24 x 18 ft., the long side of which bears N. and S. and NW. cor. of which bears S. 13° 08' W., 9.15 chs. dist. from Cor. No. 8.

Value - - - - - \$ 25.00

There is approximately 4-1/2 miles of wire fence.

Value - - - - - \$ 500.00

Chains

DESCRIPTION

This claim is situated in Star Valley 10 miles south of Mogollon Rim on Tonto Creek water shed. The land lies in a narrow draw with a general slope to south and steep low ridges on N. and S. and E. The bottom land is open and level and hillsides are steep and covered with oak brush. The soil is sandy loam of good depth and fertile, and produces good crops. The hillsides are disintegrated granite, non-tillable and poor grazing. There is approximately 70 acres in cultivation. I saw no indication of mineral upon this claim.

CONFLICTS AND ADJOINING CLAIMS

There are no conflicts. This claim is joined on the W. bdy. by H. E. S. No. 420, Peter C. Haught, and on S. bdy. by H. E. S. No. 53 of Mrs. Nellie Beard. Payson, Arizona, is the nearest post office and is seven miles to the west. It is reached by good wagon road. Globe, Arizona, the nearest railroad point is 109 miles to the south and is reached by good wagon road.

TRAVERSE

Cor.	Course	Dist.	N	S	E	W
1-2	N. 75° 06' W.	15.52	3.99			15.00
2-3	N. 0° 03' W.	6.00	6.00			.01
3-4	S. 89° 57' W.	10.00		.01		10.00
4-5	N. 6° 54' E.	20.26	20.11		2.43	
5-6	S. 89° 52' E.	27.58		.06	27.58	
6-7	N. 0° 10' W.	20.94	20.94			.06
7-8	East	19.39			19.39	
8-9	S. 1° 10' E.	30.99		30.98	.63	
9-10	East	13.43			13.43	
10-11	S. 1° 01' W.	10.14		10.14		.18
11-12	S. 89° 43' W.	23.46		.12		23.46
12-13	N. 49° 22' W.	14.19	9.24			10.77
13-1	S. 11° 47' W.	19.38		18.97		3.96
		231.28	60.28	60.28	63.46	63.44
				60.28	63.44	
	Error in lat. and dep.			.00	.02	

16.

TONTON NATIONAL FOREST

STATE OF ARIZONA

Chains closing error 1:11564.
 Survey completed April 24, 1916.

The soil is sandy loam of good depth and fertile, and produces good crops. The hillsides are dissected granite, non-tillable and poor grazing. There is approximately 70 acres in cultivation. I saw no indication of mineral upon this claim.

The hillsides are open and level and hillsides are to south and steep low ridges on N. and S. and E. The land lies in a narrow draw with a general slope of Mogollon Rim on Tonto Green water shed.

This claim is situated on the Tonto Green water shed.

J. L. Johnson
 Surveyor - Draftsman.

CONFLICTS AND ADJOINING CLAIMS

There are no conflicts.

This claim is joined on the W. by H. E. S. No. 420, Peter C. Haight, and on S. by H. E. S. No. 52 of Mrs. Nellie Beard.

Payson, Arizona, is the nearest post office and is seven miles to the west. It is reached by good wagon road. Globe, Arizona, the nearest railroad point is 109 miles to the south and is reached by good wagon road.

TRAVERSE

Cor.	Course	Dist.	N	S	E	W
1-2	N. 75° 00' W.	15.52	8.99			15.00
2-3	N. 0° 00' W.	8.00	8.00			01.
3-4	S. 89° 57' W.	10.00		01.		10.00
4-5	N. 0° 54' E.	20.25	20.11		2.43	
5-6	S. 89° 52' E.	27.58		06	27.58	
6-7	N. 0° 10' W.	20.94	20.94			06.
7-8	East	19.39			19.39	
8-9	S. 1° 10' E.	20.99	20.99		03	
9-10	East	13.43			13.43	
10-11	S. 1° 01' W.	10.14	10.14			18.
11-12	S. 89° 43' W.	23.46		12		23.46
12-13	N. 49° 32' W.	14.19	9.24			10.77
13-1	S. 11° 47' W.	19.38	18.97			3.96
		221.28	60.28	60.28	63.46	63.44
			60.28	60.28	63.44	
			00.	00.		

Error in lat. and dep.

Chains

COMPUTATION SHEET.

Observation for time December 13, 1915 at Cor. No. 1.

Sun's Limb

Watch Time

Right

11h. 46m. 43s.

Left

11h. 49m. 04s.

2) 23h. 35m. 47s.

Watch time apparent noon

11h. 47m. 53s.

Time correction

06m. 07s.

Watch time noon

11h. 54m. 00s.

Noon

12h. 00m. 00s.

Watch slow

0h. 06m.

Chains

Chains

COMPUTATION SHEET

Observation for time December 13, 1915 at Cor. No. 1.

Watch time Sun's limb

11h. 46m. 48s. Right

11h. 49m. 04s. Left

11h. 52m. 47s.

Watch time apparent noon

11h. 57m. 58s. Time correction

11h. 54m. 00s. Watch time noon

12h. 00m. 00s. Noon

0h. 06m. Watch slow

UNITED STATES DEPARTMENT OF AGRICULTURE.
FOREST SERVICE.Inspection of H. E. S. No. 418
State of Arizona.L
Tonto Entry Surveys,
Ogilvie, Andrew M.Payson, Arizona,
January 6, 1916.Survey by R. P. A. Johnson, December, 1915.
Inspection by Walter G. Turley, December, 1915,
and January, 1916.

1. Inspection commenced December 20, 1915 and completed January 6, 1916. This claim was surveyed by metes and bounds and is located in what will probably be when surveyed, secs. 29, 31, and 32, T. 11 N., R. 11 E., G. & S. R. M. within the Tonto National Forest, Arizona.
2. Survey executed with a W. and L. E. Gurley light mountain transit No. 12953, provided with prism eye piece, stadia wires, vertical circle and Burt solar attachment. The horizontal limb of the transit has two double verniers placed opposite to each other and graduated to single minutes of arc, which is also the graduation of the verniers of the latitude and declination arcs. 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 standard 800 link steel tape, graduated to links, and the slope angles determined with a clinometer the vernier of which reads to single degrees of arc.

Observations for azimuth were made direct upon the sun at Cor. No. 6, H. E. S. No. 418. I proceeded from corner to corner on a traverse by continuous sustained angulations; and returning to Cor. No. 6, I read the bearing of my reference meridian to be N. 0° 01' W. The sun was observed in the upper left quadrant of the field with telescope direct and lower right quadrant with telescope reversed in latitude 34° 15' 20" N. and longitude 110° 15' 24" W. obtained by account from the special instructions of the Surveyor General.

	Telescope	Hor. Ang.	Vert. Ang.	C.M.F.
A.	Direct	31° 17' 45"	25° 08' 00"	2h. 00m. 30s.
	Reversed	30° 59' 30"	25° 41' 00"	2h. 01m. 40s.
B.	Direct	31° 58' 00"	24° 49' 00"	2h. 03m. 30s.
	Reversed	31° 36' 30"	25° 23' 00"	2h. 04m. 35s.

Bearing of flag from A, S. 0° 01' 01" E.

" " " " B, S. 0° 01' 15" E.

Mean Bearing of flag S. 0° 01' 08" E., and from the corresponding meridian all the courses stated in these field notes were deflected, and referred by continuous sustained angulations. It was not possible to observe the sun for latitude during the time of making this inspection survey.

On January 6, 1916 I set up my transit over corner No. 7, H. E. S. No. 418; and, with the horizontal limb set at zero, I sight upon corner No. 8. I observe the sun in altitude for azimuth in the upper left quadrant of the

field with telescope direct and in the lower right quadrant with telescope reversed in latitude 34° 15' 40" N., and longitude 111° 15' 24" W.

	Telescope	Angle rt. to sun.	Vert. Ang.	L.M.T.
C.	Direct	129° 16' 30"	21° 54' 30"	2h 41m 30s
	Reversed	129° 06' 30"	22° 14' 00"	2h 43m 00s
D.	Direct	129° 57' 30"	21° 28' 30"	2h 45m 00s
	Reversed	129° 43' 30"	21° 50' 30"	2h 46m 30s

Bearing of line 7-8 from C, is N. 89° 50' 07" E.

Bearing of line 7-8 from D, is N. 89° 49' 50" E.

3. The land is included in H. E. S. No. 418 is listable both from status and classification.
4. There is no hiatus or overlap.
5. H. E. S. No. 418 embraces the land applied for by Louis Barnini, application No. 25, and no other; approximately 2.5 acres of land were eliminated from application No. 25 in making H. E. S. No. 418 by running N. 6° 54' E. from cor. No. 4 to Cor. No. 5.
6. The corner stones were all well set and correctly chiseled. The pits and mounds of stone were as required; the witnesses were marked as required.
7. All corners were correctly located according to listing description, except cor. No. 5 which was set approximately 2.45 chs. east of its position according to the listing description. This was done in order to follow an old and well established property line. The tract embodied in H. E. S. No. 418 does not exceed statutory length or area.

- 8. Area of tract embraced in H. E. S. No. 418 is 157.49 acres, as determined by me; and the closing error of this inspection survey is 1:4754. Area computations on separate sheets hereto attached.
- 9. No corrections made in the field.
- 10. No recommendations.

120D

Comparative Tabulation.

Original Survey by R. P. A. Johnson, December, 1915.
 Inspection by Walter G. Turley, December 1915, and
 January 1916.

Line	Surveyor	Inspector	Diff.	Surveyor	Inspector	Diff.
1-2	S. 89° 57' W.	S. 89° 57' W.	00'	15.00	15.01	-.01
2-3	N. 0° 03' W.	N. 0° 03' W.	00'	10.00	9.99	+.01
3-4	S. 89° 57' W.	S. 89° 59' W.	-02'	10.00	10.00	00
4-5	N. 6° 54' E.	N. 6° 52' E.	+02'	20.26	20.24	+.02
5-6	S. 89° 52' E.	S. 89° 53' E.	+01'	27.58	27.60	-.02
6-7	N. 00° 06' W.	N. 0° 07' W.	+01'	29.94	29.93	+.01
7-8	N. 89° 55' E.	N. 89° 50' E.	+05'	10.01	10.00	+.01
8-9	N. 0° 03' W.	N. 0° 03' W.	00'	10.00	10.00	.00
9-10	N. 89° 57' E.	N. 89° 57' E.	00'	10.00	9.99	+.01
10-11	S. 0° 03' E.	S. 0° 04' E.	+01'	50.00	49.93	+.07
11-12	S. 89° 57' W.	S. 89° 58' W.	-01'	25.00	25.00	.00
12-1	S. 0° 03' E.	S. 0° 03' E.	00'	20.00	19.99	+.01

Note: S. 37° 03' E. 24.95 from cor. No. 1 H. E. S. No. 418 to
 Cor. to secs. 5, 6, 31 and 32, Ts. 10 and 11 N., R. 11 E.

I, Walter G. Turley, do solemnly swear, that, between the dates of December 20, 1915 and January 6, 1916, I thoroughly inspected in the field H. E. S. No. 418, State of Arizona, and well and faithfully retraced its boundary lines as shown by the established corners, and the line (or lines) which determine its relative location, in strict conformity with the special instructions of the Surveyor General for Arizona, dated September 23, 1915 and the National Forest Manual, and that the above report is a correct statement of the facts observed during the said inspection, (and of the field corrections made by me under the instructions of the District Forester).

Walter G. Turley,
Surveyor, Forest Service.

Subscribed and sworn to)
before me this 8th day:
of February, 1916)

J C Evans
Notary Public

My term expires February 23 1916.

TRAVERSE OF LISTED AREA

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. 418, STATE OF ARIZONA

Listed Area

CORNERS.	BEARING.	DISTANCE.	LATITUDES.		DEPARTURES.		DOUBLE M. D.		N. AREAS.	S. AREAS.
			NORTH.	SOUTH.	EAST.	WEST.				
1-2	N. 75° 06' W.	15.52	3 99			15 00	35 02	139 73		
2-3	N. 0° 03' W.	6.00	6 00			01 00	20 01	120 06		
3-4	S. 89° 57' W.	10.00		01		10 00	10 00			10
4-5	N. 6° 54' E.	20.26	20 11	05	2 43	06	2 43	48 87		
5-6	S. 89° 52' E.	27.58		06	27 58		32 45		1 62	
6-7	N. 0° 10' W.	20.94	20 94			06	59 98	1255 98		
7-8	East	19.39		30 97	19 39		79 31			
8-9	S. 1° 10' E.	30.99		30 98	63		99 34	3076 56		
9-12	S. 89° 57' W.	25.00		02		25 00	74 98			
12-1	S. 0° 03' E.	20.00		20 00		02	50 00		1000 00	
		195.68	51 04	51 07	50 05	50 07		1564 64	4079 03	
			51 04	51 04	50 07	50 07		20) 2514 39	1564 64	
									125. 72 acres	

121

2711

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

2. In balancing Latitudes and Departures do not obliterate or change the original figures. Do not change the footing of the original figures, but put below them the corrected footing in red ink. 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. 418, STATE OF ARIZONA

CORNERS.	BEARING.	DISTANCE.	LATITUDES.		DEPARTURES.		DOUBLE M. D.	N. AREAS.	S. AREAS.
			NORTH.	SOUTH.	EAST.	WEST.			
1-2	N. 75° 06' W.	15.52	3 99			15 00	35 02	139 73	
2-3	N. 0° 03' W.	6.00	6 00			01	20 01	120 06	
3-4	S. 89° 57' W.	10.00		01		10 00	10.00		10
4-5	N. 6° 54' E.	20.26	20 11		2 45	2 43	2 43	48 87	
5-6	S. 89° 52' E.	27.58		06	27 58	27 58	32 43		1 95
6-7	N. 0° 10' W.	20.94	20 94			06	59 94	1255 14	
7-8	East	19.39			19 39	19 39	79 27		
8-9	S. 1° 10' E.	30.99		30 98	62 63	63	99 28	3075 69	
9-10	East	13.43			13 43	13 43	113 33		
10-11	S. 1° 01' W.	10.14		10 14		18	126 58	1283 52	
11-12	S. 89° 43' W.	23.46		12		23 46	102 94	12 35	
12-13	N. 49° 22' W.	14.19	9 24			10 77	68 71	634 88	
13-1	S. 11° 47' W.	19.38		18 97		3 96	53 98	1024 00	
		231.28	60 28	60 28	63 46	63 44		2198 68	5397 61
			60 28	60 28	63 44	63 44			2198 68
		1 : 11564							2) 3198 93
	Tie Cor. No. 1 to Cor. for secs. 5-6-31-32								1599 46
	N. 0° 03' W.	20.00	20 00			02			
	N. 89° 57' E.	15.09			15 09				
	S. 0° 22' E.	15.63		15 63					
	S. 0° 45' W.	22.74		22 74		30			
	S. 6° 51' E.	1.45		1 44					
			20 01	39 81	15 36	32			
			20 01	20 01	32	32			
			19 80	15 94					

123

S. 37° 13' E. 24.86 chs.

EM

APPROVAL

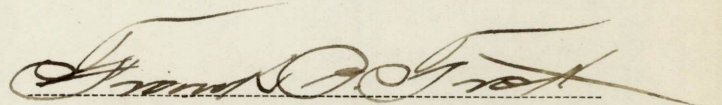
Office of the United States Surveyor General,

Phoenix, Arizona, March 16 , 1918.

The foregoing field notes of Homestead Entry Survey No.

418

executed by R. P. A. Johnson, Surveyor-Draftsman [Forest Service Title.]
under his special instructions, dated September 23 , 1915, 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.