

ORIGINAL
U. S. DEPARTMENT OF AGRICULTURE

285

FOREST SERVICE

JUL 2-1917

FIELD NOTES

OF

HOMESTEAD ENTRY SURVEY NO. 500

DEC 9-1918
MAY 17, 1919

SITUATED IN THE **APACHE** NATIONAL FOREST

ADMINISTRATIVE DISTRICT NO. 3

In Section **17**, -surveyed, Township **5 N.**, Range **31 E.**

of the

Gila and Salt River Base and Meridian.

State of

ARIZONA

Applicant for listing **H. R. Burk,**

Residence **Alpine, Arizona**

Application No. **148** ✓, dated **February 18, 1911 and November 2, 1911.**

Application No. **275** ✓, dated **April 11, 1913.**

List No. **3-1904** ✓, dated **May 21, 1912**

List No. **3-2573** ✓, dated **November 3, 1913**

Applicant for survey **H. R. Burk,**

Residence **Alpine, Arizona**

H. E. No. **021248** ✓, dated **March 18, 1913.**

H. E. No. **025450** ✓, dated **August 10, 1914**

Office

Land District **Phoenix, Arizona**

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

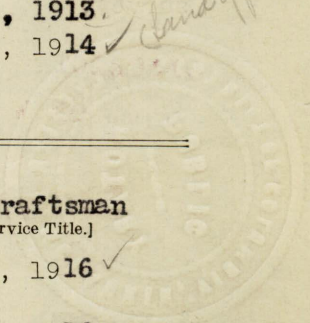
Under special instructions dated **June 21, 1916** ✓

Survey commenced **September 16, 1916**

Survey completed **September 25, 1916**

Under Acts of **June 11, 1906 and August 11, 1916.** ✓

*Report on
furnished this office.
Land office records*



286

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. 500, 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 inconvenient to appear before an officer to administer oaths to Assistants; hence, they were taken by the Surveyor.

Chester A. Lee, Chairman
Howard B. Ricketts, Chairman

Subscribed and sworn to before me this twenty eighth day of
September, 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
June 21, 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. 3-1904 ✓, dated May 21, 1912 ✓
List , No. 3-2573 ✓, dated November 3, 1913 ✓, for
patent, under the Act of June 11, 1906,
the same to be known as Homestead Entry Survey No. 500,
situated within the Apache National Forest, in
-surveyed Section 17, Township 5N, Range 31E, and
-surveyed Section - - - - , Township - - - - , Range - - - - ,

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.

DISTRICT OF COLUMBIA
CITY OF WASHINGTON

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

Subscribed and sworn to before me this 27th day of
February, 1917.

Sylvester L. McLawrin
NOTARY PUBLIC, D. C.

SEAL. Commission expires
June 20, 1918.
8-2349

APACHE NATIONAL FOREST

STATE OF ARIZONA

Chains Applicant for listing, H. R. Burk; Applications No. 148 and 275, dated February 18, 1911, November 2, 1911 and April 11, 1913; Lists No. 3-1904 and 3-2573, dated May 21, 1912 and November 3, 1913; H. E. Nos. 021248 and 025450, made in the Phoenix Land Office on March 18, 1913 and August 10, 1914 by H. R. Burk.

Surveyed under special instructions from the Surveyor General for Arizona, dated June 21, 1916 and designated as Homestead Entry Survey No. 500.

Situated in surveyed T. 5 N., R. 31 E., Section 17, Gila and Salt River Base and Meridian, Apache National Forest, Arizona.

Surveyed under the Acts of June 11, 1906 and August 11, 1916.

Survey commenced September 16, 1916 and executed with a Buff and Buff transit.

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.

September 16, 1916.

At 7h. 51.1m. p.m., 1.m.t., at cor. for secs. 16, 17, 20

band 21, T. 5 N., R. 31 E., hereinafter described, I observe Polaris at Eastern Elongation. My watch is set for local mean time, and reading on reference object East of star, is set at zero. The mean horizontal angle is $16^{\circ} 22' 30''$. The azimuth of Polaris is $1^{\circ} 22' 21''$ East. Therefore reference object bears N. $17^{\circ} 44' 51''$ E.

Lat. $33^{\circ} 49' 07''$ N., Long. $109^{\circ} 05' 54''$ W., from special instructions from the Surveyor General, and later verified.

THE APACHE NATIONAL FOREST

STATE OF ARIZONA

Chains. September 19, 1916. H. E. S. Applicant for listing. H. E. S. Chains
 I observed the altitude of the sun for azimuth at cor. for
 secs. 16, 17, 20 and 21, T. 5 N., R. 31 E., hereinafter
 described. My watch is set for local mean time, and
 the reading on meridian determined by Polaris observa-
 tion of September 16 is set at zero and sun was observed
 in the lower left and upper right quadrants of the field.

Telescope	Time	Horizontal Angle	Vertical Angle
Direct	7h. 46m. 37s.	72° 28' 00"	26° 34' 00"
Reversed	7h. 47m. 20s.	72° 55' 00"	26° 09' 30"
Difference from Polaris meridian, 0° 00' 37".			
To mean of these two observations, all courses of this survey are referred.			

RETRACEMENT

On September 18 and 19, I resurveyed the boundaries of
 sec. 17, T. 5 N., R. 31 E., in connection with survey of
 H. E. S. 499, as follows: (See notes thereof for de-
 tails.)

From cor. for secs. 16, 17, 20 and 21, which is a sand-
 stone 10 x 10 x 15 ins. above ground, properly marked
 and witnessed by me.

Thence N. 89° 44' W.

On true line bet. secs. 17 and 20.

39.90 1/4 sec. cor. bet. secs. 17 and 20, which is a sandstone
 17 x 4 x 10 ins. above ground, properly marked and wit-
 nessed by me.

Thence N. 89° 44' W.

On true line bet. secs. 17 and 20.

39.90 Cor. for secs. 17, 18, 19 and 20, which is a sandstone
 16 x 6 x 10 ins. above ground, properly marked and
 witnessed by me.

Thence N. 3° 06' W.

TAPACHE NATIONAL FOREST

STATE OF ARIZONA

Chains On true line bet. secs. 17 and 18.

37.06 1/4 sec. cor. bet. secs. 17 and 18, which is a sandstone 8 x 8 x 10 ins. above ground, properly marked and witnessed by me.

Thence N. 7° 36' E.

On true line bet. secs. 17 and 18.

21.78 Temp. 1/16 sec. cor. on W. line NW/4, sec. 17.

43.56 Cor. to secs. 7, 8, 17 and 18, which is a sandstone 8 x 6 x 14 ins. above ground, marked and witnessed as described by the Surveyor General. Stone poorly marked and one witness in poor condition. I restore corner. (See notes of H.E.S.499)

Thence S. 85° 01' E.

On true line bet. secs. 8 and 17.

34.68 1/4 sec. cor. bet. secs. 8 and 17, which is a sandstone 14 x 8 x 26 ins. above ground, properly marked and witnessed by me.

Thence East.

On true line bet. secs. 8 and 17.

40.30 Cor. for secs. 8, 9, 16 and 17, which is a sandstone 12 x 10 x 10 ins. above ground, properly marked and witnessed by me.

Thence S. 0° 49' E.

On true line bet. secs. 16 and 17.

38.79 1/4 sec. cor. bet. secs. 16 and 17, which is a granite stone 8 x 4 x 10 ins. above ground, properly marked and witnessed by me.

Thence S. 49° E.

38.79 Cor. for secs. 16, 17, 20 and 21; heretofore described.

SUBDIVISION

On September 20, subdivided sec. 17, T. 52 N., R. 31 E. into quarter sections in connection with the survey of

APACHE MOUNTAIN NATIONAL FOREST

STATE OF ARIZONA.

Chains H. E. S. 499.

From 1/4 sec. cor. bet. secs. 17 and 20, heretofore described.

Thence N. 1° 09' W.

On true meridional center line through sec. 17.

37.85 1/2 Center 1/4 sec. cor., which is a sandstone 8 x 8 x 10 ins. above ground, marked C 1/4 S on N. face. No witnesses.

57.58 1/2 Temp. 1/16 sec. cor. on E. line NW/4, sec. 17.

77.33 1/4 sec. cor. bet. secs. 8 and 17, heretofore described.

From 1/4 sec. cor. bet. secs. 16 and 17, heretofore described.

Thence S. 88° 59' W.

On true latitudinal center line, through sec. 17.

40.03 Center 1/4 sec. cor., heretofore described.

81.12 1/4 sec. cor. bet. secs. 17 and 18, heretofore described.

September 20, 1916.

September 24, 1916.

From temp. 1/16 sec. cor. on E. line NW/4, sec. 17.

Thence West.

On random latitudinal center line, through NW/4, sec. 17.

37.78 Fall 115-1/2 lks. S. of temp. 1/16 sec. cor. on E. line NW/4, sec. 17.

Thence S. 88° 15' E.

On true latitudinal center line NW/4, sec. 17.

37.80 1/16 sec. cor. on W. line NW/4.

BOUNDARIES OF CLAIM.

TRACT A.

Beginning at cor. No. 1 and C.C. on line bet. secs. 17 and 20, T. 5 N., R. 31 E.

I chisel + on top of a sandstone conglomerate boulder

30 x 24 x 6 ins. above ground, 1 - H E S 500 on NW.

APACHE NATIONAL FOREST

STATE OF ARIZONA

Chains

face and C C on N. face for cor. No. 1 of this survey,
and raise a mound of stone 3 ft. base, 2 ft. high N. of
cor., whence:

A yellow pine, 20 ins. dia., bears S. 82° W.,
37 lks. dist., scribed 1 H E S 500 + B T.

A yellow pine, 16 ins. dia., bears N. 42° E.,
63 lks. dist., scribed 1 H E S 500 + B T.

Cor. for secs. 16, 17, 20 and 21, heretofore de-
scribed, bears S. 89° 44' E., 1.69 chs. dist.

1/4 sec. cor. bet. secs. 17 and 20, heretofore de-
scribed, bears N. 89° 44' W., 38.21 chs. dist.

Cor. H-1 of the list survey, which is a sand-
stone 12 x 6 x 10 ins. above ground, marked
and witnessed as described by the Forest Ser-
vice, bears S. 10° 18' W., 3.02 chs. dist.

I destroy all trace of this list cor.

Lat. 33° 49' 07" N., Long. 109° 05' 54" W., from special
instructions from the Surveyor General, and later
verified.

Mag. Var. at 9:00 a.m., 13° 30' E, Mean Mag. Var. 13°
28' E.

Thence N. 89° 44' W.

On line bet. secs. 17 and 20. Descend 35 ft. to creek.

3.50 Creek, 2 lks. wide, 4 ft. deep, course N. Ascend 10 ft.
in open to cor.

5.00 Cor. No. 2 and C. C. on line bet. secs. 17 and 20.

Deposit a sandstone 4 x 4 x 2 ins. marked with a +, 18
ins. in the ground, over which set a sandstone 28 x 14
x 8 ins., chiseled + for the point, 2 - H E S 500 on NE.
face and C C on NNW. face; and raise a mound of stone 3
ft. base, 2 ft. high NNW. of cor., whence:

An oak, 8 ins. dia., bears S. 6° 10' E., 22
lks. dist., scribed 2 H E S 500 + B T.

A yellow pine, 14 ins. dia., bears N. 53° 24' E.,
16 lks. dist., scribed 2 H E S 500 + B T.

Chains

Cor. for secs. 16, 17, 20 and 21, heretofore described, bears S. 89° 44' E., 6.69 chs. dist.

1/4 sec. cor. bet. secs. 17 and 20, heretofore described, bears N. 89° 44' W., 33.21 chs. dist.

Cor. H-16 of list survey, which is a conglomerate stone, 8 x 3 x 10 ins. above ground, marked and witnessed as described by the Forest Service, bears S. 32° 16' E., 4.55 chs. dist.

I destroy all trace of this list cor.

Thence N. 31° 58' W.

Along East slope in edge of timber.

10.50 Corral.

12.52 To cor. No. 3.

Identical with cor. H-15 of the list survey, which is a sandstone 8 x 3 x 6 ins. above ground, marked and witnessed as described by the Forest Service. I destroy all trace of this list cor. Deposit a sandstone 8 x 5 x 4 ins. marked with a +, 20 ins. in the ground, over which set a sandstone 30 x 20 x 16 ins., chiseled + for the point and 3 - H E S 500 on NE. face; and raise a mound of stone 3 ft. base, 2 ft. high NE. of cor., whence:

A yellow pine, 10 ins. dia., bears S. 88° 32' W., 23 lks. dist., scribed 3 H E S 500 + B T.

A yellow pine, 10 ins. dia., bears N. 6° 19' W., 48 lks. dist., scribed 3 H E S 500 + B T.

Thence N. 6° 26' W.

Along East slope in edge of timber, ascend 10 ft.

Fence on line.

7.00 Top ascent. Descend 25 ft. to cor. in timber.

15.00 Leave timber. Enter open.

19.19 To cor. No. 4.

APACHE NATIONAL FOREST

STATE OF ARIZONA

Chains

Identical with cor. H-14 of the list survey, which is a sandstone 6 x 3 x 7 ins. above ground, marked and witnessed as described by the Forest Service. I destroy all trace of this list cor. Deposit a sandstone 8 x 4 x 2 ins. marked with a cross, 24 ins. in the ground, over which set a sandstone 34 x 12 x 8 ins., chiseled + for the point and 4 - H E S 500 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 N. 83° 07' W.,
215 lks. dist., scribed 4 H E S 500 + B T.

A yellow pine, 16 ins. dia., bears S. 34° 02' W.,
218 lks. dist., scribed 4 H E S 500 + B T.

Thence N. 75° 07' W.

Ascend 10 ft. along East slope in open.

6.00 Top ascent. Descend 5 ft. in open to cor.

11.56 To cor. No. 5.

Identical with cor. H-13 of the list survey, which is a sandstone 14 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 sandstone 5 x 5 x 4 ins. marked with a +, 14 ins. in the ground, over which set a sandstone 24 x 14 x 12 ins., chiseled + for the point and 5 - H E S 500 on N. face; and raise a mound of stone 3 ft. base, 2 ft. high N. of cor., whence:

A yellow pine, 14 ins. dia., bears S. 26° 24' W.,
104 lks. dist., scribed 5 H E S 500 + B T.

A yellow pine, 18 ins. dia., bears S. 59° 03' E.,
251 lks. dist., scribed 5 H E S 500 + B T.

Thence S. 42° 24' W.

Ascend 20 ft. in open, along NW. slope.

Chains

8.25 Top ascent. Descend 25 ft. in open to cor.

17.45 Fence bears N. and S.

18.71 To cor. No. 6.

Identical with cor. H-12 of the list survey, which is a granite stone 12 x 5 x 10 ins. above ground, marked and witnessed as described by the Forest Service. I destroy all trace of this list cor. Deposit a granite stone 8 x 6 x 5 ins. marked with a +, 15 ins. in the ground, over which set a sandstone conglomerate 25 x 10 x 8 ins., chiseled + for the point and 6 - H E S 500 on NE. face; and raise a mound of stone 3 ft. base, 2 ft. high, NE. of cor., whence:

A yellow pine, 14 ins. dia., bears S. 64° 57' E.,

241 lks. dist., scribed 6 H E S 500 + B T.

A yellow pine, 16 ins. dia., bears S. 32° 17' E.,

202 lks. dist., scribed 6 H E S 500 + B T.

Thence N. 3° 05' E.

Descend 10 ft. in open to cor.

1.00 Road bears NE. and SW.

9.50 Bend of Creek, 2 lks. wide, 3 ft. deep, course NW.

11.50 Road bears NW. and SE.

20.11 To cor. No. 7.

Deposit a granite stone 4 x 4 x 3 ins. marked with a +, 24 ins. in the ground, over which set an iron post 2 ins. dia., 36 ins. long, with brass cap marked 1916 and 7 - H E S 500 on side facing the claim. No witnessed available, therefore dig pits 24 x 24 x 12 ins. crosswise on claim lines 8 ft. dist.; and raise a mound of earth and stone 5 ft. base, 3 ft. high SW. of cor.

Point for cor. No. 15 H. E. S. 499, which is

two quarts of charcoal deposited 12 ins. in the ground, bears S. 42° 14' W., 118 lks. dist.

APACHE NATIONAL FOREST

STATE OF ARIZONA.

Chains Cor.H-11 of list survey is not found after careful search.

Thence S. 89° 41' E.

Across open level land, along South side of road exemption (Tract C). Fence on line.

- 7.57 Terminus of road exemption (Tract C).
- 11.70 Spring Creek, 1 lk. wide, 6 ins. deep, course N.
- 14.85 Ranch road bears N. and SE.
- 20.51 Arroyo, 10 lks. wide, 3 ft. deep, course N.
- 22. 13 Fence cor., fence bears South and along line.
- 34.12 Creek, 3 lks. wide, 5 ft. deep, course N.
- 36.55 To Cor. No. 8.

Deposit a granite stone 6 x 5 x 2 ins., mkd with a + 24 ins. in ground, over which set an iron post 2 ins. dia., 36 ins. long, with brass cap, mkd 1916 and 8 H E S 500 on side facing claim. No witness available, therefore dig pits 24 x 24 x 12 ins. crosswise on claim lines 7 ft. dist., and raise mound of earth and stone 4 ft. base, 3 ft. high SW. of cor.

Cor. H-4 of the list survey (which is a sandstone 12 x 6 x 8 ins. above ground mkd and witnessed as described by the Forest Service), brs N. 2° E., 30 lks dist. I destroy all trace of this list cor.

Thence S. 0° 06' W.

Ascend 30 ft. in cultivated land to base hill.

- 16.80 Leave cultivated land and ascend W. slope 60 ft. in scattering timber.
- 19.00 Fence cor., fence bears NNE and SSE.
- 32.00 Top ascent. Descend 25 ft. to cor.
- 38.79 To Cor. No. 1, the place of beginning.

September 24, 1916.

September 25, 1916. TRACT B

Beginning at Cor. No. 9.

Deposit a sandstone 7 x 4 x 3 ins. mkd with a + 14 ins. in ground, over which set a sandstone 24 x 6 x 6 ins.,

TREROCAPACHE NATIONAL FOREST

STATE OF ARIZONA

Chains

chiseled + for the point and 9 H E S 500 on NW. face; raise a mound of stone 3 ft. base, 2 ft. high NW. of cor.

No witnesses available. Pits impracticable.

Cor. H-5 of list survey is not found after careful search.

Terminus of road exemption on line 7-8 of Tract

A bears S. 0° 14' E., 52 lks. dist.

Thence N. 89° 41' W.,

Along north side of road exemption (Tract C), over open land, along fence.

7.54 At this point Cor. No. 7 of Tract A heretofore described bears S. 3° 05' W., 52 lks., which is terminus of road exemption.

8.10 Small creek, 3 lks. wide, 5 ft. deep, course N. Ascend 10 ft. to ridge.

26.90 Top ridge. Descend 15 ft. to cor.

36.83 Small creek, 3 lks. wide, 3 ft. deep, course NNE.

38.66 Arroyo, 12 lks. wide, 3 ft. deep, course NE.

44.13 Arroyo 8 lks. wide, 2 ft. deep, course N.

45.38 Leave List 3-1904. Enter List 3-2573 Cor. H-4 List 3-2573 sandstone 4 x 6 x 4 ins. above ground, marked and witnessed as described by the Forest Service. I destroy all trace of this list cor. Cor. H-10 List 3-1904 not found after careful search.

45.40 Fence cor., fence bears NNE.

50.74 To Cor. No. 10 and Closing Corner on line bet. secs. 17 and 18. Deposit a granite stone 8 x 6 x 2 ins., marked with a + 20 ins. in the ground, over which set a granite stone 36 x 10 x 10 ins., chiseled + for the point and 10 H E S 500 on NE. face and C C on E. face; raise a mound of stone 3 ft. base, 2 ft. high E. of cor., whence:

A yellow pine 14 ins. dia. bears N. 48° 25' W.,

242 lks. dist., scribed 10 H E S 500 + B T.

A yellow pine 14 ins. dia. bears S. 5° 35' E.,

138 lks. dist., scribed 10 H E S 500 + B T.

APACHE NATIONAL FOREST

STATE OF ARIZONA.

Chains

1/4 sec. cor. bet. secs. 17 and 18, heretofore described, bears S. 7° 36' W., 2.43 chs. dist.
 Cor. for secs. 7, 8, 17 and 18, heretofore described, bears N. 7° 36' E., 41.13 chs. dist.
 Cor. H-3 of the List survey, which is a sandstone 10 x 12 x 14 ins., marked and witnessed as described by the Forest Service, bears E. 86 lks. dist. I destroy all trace of this list cor.

Thence N. 7° 36' E.

On line bet. secs. 17 and 18. Desc. 20 ft. in open to cor.

19.35 To cor. No. 11 and C C on line bet. secs. 17 and 18 and 1/16 sec. cor.

Deposit a granite stone 4 x 3 x 2 ins. marked with a +, 24 ins. in the ground, over which set an iron post 2 ins. dia., 36 ins. long, with brass cap marked 1916, 11 - H E S 500 on side facing the claim, C C on W. half and 1/16 on E. half. No witnesses available, therefore dig pits 24 x 18 x 12 ins. crosswise on sec. line N. 7° 36' E. and S. 7° 36' W., 3 ft. dist., and on claim line 7 ft. dist.; and raise a mound of earth and stone 4 ft. base, 3 ft. high E. of cor.

Cor. H-2 of the list survey, which is a sandstone 8 x 4 x 10 ins., marked and witnessed as described by the Forest Service, bears S. 83° 50' W., 171 lks. dist. I destroy all trace of this list cor.

1/4 sec. cor. bet. secs. 17 and 18, heretofore described bears S. 7° 36' W. 21.78 chs.

Cor. to secs. 7, 8, 17 and 18, heretofore described bears N. 7° 36' E. 21.78 chs.

Thence S. 88° 15' E.

On latitudinal center line through NW/4 sec. 17.
 Ascend 10 ft. in open to ridge. Fence on line.

Chains
2.80

Also cor. H-2 of List 3-2573
Cor. H-9, which is a sandstone 6 x 4 x 8 ins. above ground, marked and witnessed as described by the Forest Service, bears South 10 lks. I destroy all trace of this list cor. Leave List 3-2573 and enter list 3-1904.

7.20 Fence cor., fence bears SSW. and along line. Top ridge bears N. and S. Descend 10 ft. to cor.

22.98 To cor. No. 12.

Deposit a sandstone 5 x 4 x 2 ins. marked with a +, 23 ins. in the ground, over which set a sandstone 33 x 16 x 12 ins., chiseled + for the point and 12 - H E S 500 on SW. face. No witnesses available, therefore dig pits 24 x 24 x 12 ins. crosswise on claim lines 7 ft. dist.; and raise a mound of earth and stone 4 ft. base, 3 ft. high SW. of cor.

Cor. H-8 of the list survey, which is a sandstone 10 x 4 x 8 ins. above ground, marked and witnessed as described by the Forest Service, bears N. 3°00' W., 60 lks. dist. I destroy all trace of list cor.

Thence South.

Ascend 5 ft. in open. Fence along line.

4.30 To cor. No. 13.

Identical with cor. H-7 of the list survey, which is a sandstone 8 x 6 x 8 ins. above ground, marked and witnessed as described by the Forest Service. I destroy all trace of this list cor. Deposit a granite stone 5 x 4 x 3 ins. marked with a +, 24 ins. in the ground, over which set an iron post 2 ins. dia., 36 ins. long with brass cap marked 1916 and 13 - H E S 500 on side facing the claim. No witnesses available, 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 SW. of cor.

As not this also
Cor H-2 of list
3-2573?
(previous information)

TRAPACHE MOUNTAIN NATIONAL FOREST

STATE OF ARIZONA

Chains Thence N. 89° 30' E.
 Ascend 15 ft. to cor. in open. Fence on line.
 3.15 Arroyo, 20 lks. wide, 3 ft. deep, course NW.
 5.50 Arroyo, 10 lks. wide, 1 ft. deep, course NW.
 25.11 To cor. No. 14.
 Identical with cor. H-6 of the list survey, which is a sandstone 10 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 sandstone 4 x 3 x 2 ins., marked with a + 14 ins. in the ground, over which set a sandstone 24 x 8 x 8 ins., chiseled + for the point and 14 - H E S 500 on SW. face; and raise a mound of stone 3 ft. base, 2 ft. high SW. of cor.
 No witnesses available. Pits impracticable.

Thence S. 0° 14' E.
 Over open level land to cor. Fence on line.
 9.34 Small creek, 2 lks. wide, 5 ft. deep, course NW.
 14.68 To cor. No. 9, the place of beginning.

AREA

Area of Tract A - - - - - 69.84 acres
 Area of Tract B - - - - - 82.37 acres
 Total Area - - - - - 152.21 acres
 (Area of road exemption Tract C is 0.39 acres of unlisted land.)

IMPROVEMENTS

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

A log cabin, 18 x 14 ft., the long side of which bears E. and W. and the SW. cor. of which bears N. 52° 13'E., 1.25 chs. dist. from cor. No. 10.

Value ----- \$ 75.00

APACHE NATIONAL FOREST

STATE OF ARIZONA

Chains

A dug well, 17 ft. deep, bears N. 34° 25' E., 1.10 chs. dist. from cor. No. 12.

Value - - - - - \$ 25.00

A pole corral, 40 ft. dia., bears S. 31° 58' E., 2.50 chs. dist. from cor. No. 3.

Value - - - - - \$ 25.00

There are approximately 3 miles of wire fence.

Value - - - - - \$400.00

DESCRIPTION

This claim lies on South side of open valley of San Francisco River, extending up small open draw at East end. Tract B lies in open flat land with gentle slope to N. Tract A lies largely in small draw with low timbered sides to E. and SW. The elevation is approximately 8400 ft.

The timber consists of a scattered stand of yellow pine along E. and SW. boundary lines of Tract A.

The soil is a sandy loam, weathering product of sandstone.

In the Northern portion of Tract B, there is a rich black alluvial deposit. The hill land on E. and W.

boundaries of Tract A is rocky and non-tillable. The soil of bottom lands is fertile and portion in cultivation was producing good crops of oats and barley.

There is no water for irrigation, as small creeks run only during the wet season. Water for domestic use is obtained from a small spring on Tract A.

I saw no indications of mineral upon the claim.

There are approximately 40 acres in cultivation.

The following changes were made in this survey:

The road along the West boundary of Tract A was moved slightly to the West, thus eliminating a small portion of the road as excepted in the original listing; also

APACHE NATIONAL FOREST

STATE OF ARIZONA

Chains

a small strip of listed land was eliminated along the East boundary of Tract A to keep the claim within the mile limit. A portion of the road originally excepted through the N/2 of this claim in Tract B was eliminated since the road as at present located serves the purpose for which the original exception was made.

Signed statement from the entryman agreeing to the changes as made, is herewith attached.

This survey will be used as a basis for substitute list and amendment of entry.

CONFLICTS AND ADJOINING CLAIMS

There are no conflicts. This survey is joined on N. by patented homestead of O. A. Hamblin, and patented land of Francis Hamblin lies approximately 3.00 chs. to South. H. E. S. 499 of I. E. Burk is separated from this survey by roads on South and West.

The nearest railroad point is Clifton, Arizona, 85 miles distant by almost impassible wagon road. Alpine, Arizona, the nearest post office and settlement, is 3 miles to NW. Springerville, Arizona, the commercial base of this locality, lies approximately 30 miles to North.

TRAVERSE

TRACT A.

Cor.	Course	Dist.	N.	S.	E.	W.
1 - 2	N. 89°44' W.	5.00	0.02			5.00
2 - 3	N. 31°58' W.	12.52	10.62			6.63
3 - 4	N. 6°26' W.	19.19	19.07			2.15
4 - 5	N. 75°07' W.	11.56	2.97			11.17
5 - 6	S. 42°24' W.	18.71		13.82		12.62
6 - 7	N. 3°05' E.	20.11	20.08		1.08	
7 - 8	S. 89°41' E.	36.55		0.20	36.55	
8 - 1	S. 0°06' W.	38.79		38.79		0.07
		162.43	52.76	52.81	37.63	37.64
				52.76		37.63
Error in Lat. and Dep.				.05		.01
Closing error, 1:3191.						

302

HOMESTEAD ENTRY SURVEY NO. 500

APACHE NATIONAL FOREST

STATE OF ARIZONA

Chains

TRACT B.

Cor.	Course	Dist.	N.	S.	E.	W.
9-10	N. 89° 41' W.	50.74	0.28			50.74
10-11	N. 78° 36' E.	19.35	19.18		2.56	
11-12	S. 88° 15' E.	22.98		0.70	22.97	
12-13	South	4.30		4.30		
13-14	N. 89° 30' E.	25.11	0.22		25.11	
14- 1	S. 0° 14' E.	14.68		14.68	0.06	
		137.16	19.68	19.68	50.70	50.74
				19.68		50.70
Error in lat. and Dep.				.00		.04

Closing error, 1:3429.

Survey completed September 25, 1916.

R. J. Johnson
 Surveyor - Draftsman

Cor.	Course	Dist.	N.	S.	E.	W.
1-2	N. 89° 41' W.	50.74	0.28			50.74
2-3	N. 78° 36' E.	19.35	19.18		2.56	
3-4	S. 88° 15' E.	22.98		0.70	22.97	
4-5	South	4.30		4.30		
5-6	N. 89° 30' E.	25.11	0.22		25.11	
6-7	S. 0° 14' E.	14.68		14.68	0.06	
		137.16	19.68	19.68	50.70	50.74
				19.68		50.70
Error in lat. and Dep.				.00		.04

APACHE NATIONAL FOREST

STATE OF ARIZONA.

Chains

Direct Solar at cor. for secs. 16, 17, 20 and 21

T.5 N., R. 31 E., September 19, 1916.

Lat. $33^{\circ} 49' 07''$ N. Long. $109^{\circ} 05' 54''$ W. Elevation
8400 ft.

Decl. $1^{\circ} 27' 50''$ N.

Telescope	Time	Horizontal Angle	Vertical Angle	Pos. Sun
Direct	7h. 46m. 37s.	$72^{\circ} 28' 00''$	$26^{\circ} 34' 00''$	\circ^{+}
Reversed	<u>7h. 47m. 20s.</u>	<u>$72^{\circ} 55' 00''$</u>	<u>$26^{\circ} 09' 30''$</u>	$^{+}$
	7h. 46m. 58s.	$72^{\circ} 41' 30''$	$26^{\circ} 21' 45''$	
			<u>$1' 27''$</u> ref.	
			$26^{\circ} 20' 18''$	

$$\text{Cos. } Q. = \frac{\sin. 1^{\circ} 27' 50''}{\cos. 33^{\circ} 49' 07'' \times \cos. 26^{\circ} 20' 18'' - \tan. 33^{\circ} 49' 07'' \times \tan. 26^{\circ} 20' 18''}$$

log. sin. $1^{\circ} 27' 50'' = 8.407338$

log. cos. $33^{\circ} 49' 07'' = 9.919498$

log. cos. $26^{\circ} 20' 18'' = 9.952400$

$\frac{8.535440}{8.535440} = \text{log. } .03431$

log. tan. $33^{\circ} 49' 07'' = 9.826018$

log. tan. $26^{\circ} 20' 18'' = 9.694661$

$\frac{9.520679}{9.520679} = \text{log. } .33165$

Cos. Q. = $.29734$

Q. = $72^{\circ} 42' 07''$

Difference from Polaris meridian, $0^{\circ} 00' 37''$

304

Form 85.
Sheet No. 2.

HOMESTEAD ENTRY SURVEY NO.

NATIONAL FOREST

STATE OF

Chains

Direct Solar at cor. for sec. 16, 17, 20 and
 T. S. H. R. N. E., September 19, 1916.
 Lat. 38° 49' 07" N. Long. 109° 08' 54" W. Elevation
 8400 ft.
 Decl. 1° 27' 50" N.

Telescope	Time	Horizontal Angle	Vertical Angle	Pos.
Direct	7h. 45m. 87s.	78° 28' 00"	28° 24' 00"	+
Reversed	7h. 45m. 20s.	78° 53' 00"	28° 03' 30"	+
7h. 45m. 58s.	78° 41' 50"	28° 21' 45"		
7h. 45m. 15s.	78° 20' 15"			

Cor. C. =
 log. tan. 1° 27' 50" = 8.407338
 log. sec. 38° 49' 07" = 9.919438
 log. cos. 28° 20' 18" = 9.932400
 8.334740 = log.
 0.08431

log. tan. 38° 49' 07" = 9.823018
 log. tan. 28° 20' 18" = 9.821681
 9.938699 = log.
 33183

Cor. C. =
 23934

Difference from Polaris meridian, 0° 00' 35"

Chains

September 26 1916.

I, H. R. Burk hereby agree to
 the survey of my homestead, number 500 as made on
19, 20, 21, 24, 25 day of September 1916, by Forest
 Service Surveyor R. P. Johnson
 and further agree that when notified that the survey
 has been approved and before attempting to make final
 proof on my entry, I will apply for amendment of the
 same to conform with said survey.

The changes made by the surveyor are elimination
of portion in section 20, change of location
of road and widening same, and cutting off
of sufficient on east boundary to
place claim within mile limit

H. B. Ricketts
 Witness

H. R. Burk
 Claimant.

APPROVAL

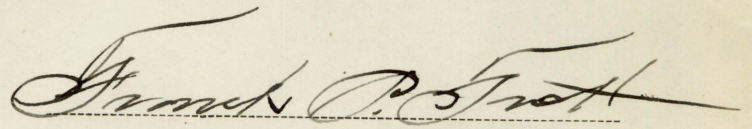
Office of the United States Surveyor General,

Phoenix, Arizona, June 29, 1918

The foregoing field notes of Homestead Entry Survey No.

500

executed by R. P. A. Johnson, Surveyor-Draftsman
[Forest Service Title.]
under his special instructions, dated June 21, 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.

DIRECTIONS.—1. Carry out calculation 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. 500, STATE OF ARIZONA.

CORNERS.	BEARING.	DISTANCE.	LATITUDES.		DEPARTURES.		DOUBLE M. D.	N. AREAS.		S. AREAS.
			NORTH.	SOUTH.	EAST.	WEST.				
Tract A.										
1-2	N. 89° 44' W.	5.00	02			5 00	70 14	1 40		
2-3	N. 31° 58' W.	12.52	10 62			6 63	58 51	621 38		
3-4	N. 6° 26' W.	19.19	19 07			2 15	49 73	948 85		
4-5	N. 75° 07' W.	11.56	2 97	13 81		11 17	36 41	108 14		
5-6	S. 42° 24' W.	18.71	20 09	13 82		12 62	12 62		174 28	
6-7	N. 3° 05' E.	20.11	20 08	19		1 08	1 08	21 70		
7-8	S. 89° 41' E.	36.55	38 78	20		36 55	38 72		7 36	
8-1	S. 0° 06' W.	38.79	38 79	79		07	75 21		2916 64	
		162.43	52 76	52 81		37 63		1701 47	3098 28	
			52 78	52 78		37 64			1701 47	
									20/1396 81	
									69.84	ACRES.
		Closing error, 1:3191.								

307

EMH

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. 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.

3. In calculations of fallings take result to nearest link.
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. 500, STATE OF ARIZONA.

CORNERS.	BEARING.	DISTANCE.	LATITUDES.		DEPARTURES.		DOUBLE M. D.	N. AREAS.	S. AREAS.
			NORTH.	SOUTH.	EAST.	WEST.			
Tract B.									
9-10	N. 89° 41' W.	50.74	28		50.74	50.74	14.20		
10-11	N. 7° 36' E.	19.35	19.18		2.56	2.56	49.10		
11-12	S. 88° 15' E.	22.98		70	22.97	28.10		19.67	
12-13	South	4.30		430	25.11	51.08		219.64	
13-14	N. 89° 30' E.	25.11	22		25.11	76.20	16.76		
14-1	S. 0° 14' E.	14.68		1468	06	101.38		1488.26	
		137.16	19.68	1968	50.70	50.74	80.06	1727.57	
			19.68	1968	50.72	50.72		80.06	
	Closing error, 1:3429.							20/1647.51	
								82.37	Acres.

309

Sheet No. 3.-Revised Feb.,

8-2349

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. 500, STATE OF Arizona

CORNERS.	BEARING.	DISTANCE.	LATITUDES.		DEPARTURES.		DOUBLE M. D.	N. AREAS.	S. AREAS.
			NORTH.	SOUTH.	EAST.	WEST.			
	N. 3° 05' E.	.52	52		03		03		
	S. 89° 41' E.	7.54		04	7 54		7 60	30	
	S. 0° 14' E.	.52		52			15 14	7 87	
✓	N. 89° 41' W.	7.57	04			7 57	7 57		
	Traverse Tract C - Unlisted Road Exemption							32	8 17
									32
									20 17 85
									39 Acres

311