

55

ORIGINAL
U. S. DEPARTMENT OF AGRICULTURE
FOREST SERVICE

AUG. 2- 1917

Jan. 28, 1918

FIELD NOTES

OF

HOMESTEAD ENTRY SURVEY NO. 484

SITUATED IN THE **APACHE** NATIONAL FOREST

ADMINISTRATIVE DISTRICT NO. 3

In Section **33** , - surveyed, Township **8 N.** , Range **28 E.**

of the

Gila and Salt River Base and Meridian.

State of

ARIZONA

Applicant for listing **A. W. Ellis,** ✓
 Residence **Springerville, Arizona**
 Application No. **216** ✓ , dated **May 13** , 1912 ✓
 List No. **3-2334** ✓ , dated **March 3** , 1913 ✓

Applicant for survey **Burnham Neff,** ✓
 Residence **Springerville, Arizona**
 H. E. No. **028561** ✓ , dated **October 11** , 1915 ✓
 Office **Phoenix, Arizona**
 Land District ~~District~~

Survey executed by **R. P. A. Johnson,** Surveyor - Draftsman
[Forest Service Title.]
 Under special instructions dated **June 21** , 1916 ✓
 Survey commenced **August 20** , 1916 ✓
 Survey completed **August 21** , 1916 ✓
 Under Acts of **June 11, 1906 and August 11, 1916**

485

56

OATH OF ASSISTANTS

We hereby certify that we assisted R.P.A. Johnson in surveying all those parts or portions of Homestead Entry Survey No. 484, 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.

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

Subscribed and sworn to before me this twenty seventh 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 instructions 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

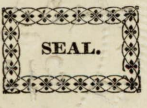
List No. 3-2334, dated March 3, 1913, for patent, under the Act of June 11, 1906, the same to be known as Homestead Entry Survey No. 484, situated within the Apache National Forest, in - surveyed Section 33, Township 8N, Range 28E, and - surveyed Section - - - - , Township - - - - , Range - - - - ,

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

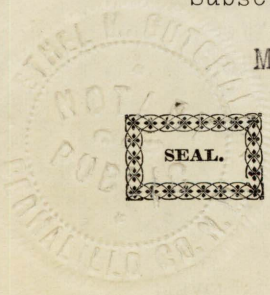
R.P.A. Johnson
Surveyor Draftsman
[Forest Service Title.]

Subscribed and sworn to before me this thirtyfirst day of March, 1917.

Ethel M. Gutschall
Notary Public



My Commission expires Mar. 17 1921
8-2349



APACHE NATIONAL FOREST

STATE OF ARIZONA.

Chains

Applicant for listing, A. W. Ellis; Application No. 216, dated May 13, 1912; List No. 3-2334, dated March 3, 1913; H. E. 028561, made in the Phoenix Land Office on October 11, 1915 by Burnham Neff.

Surveyed under special instructions from the Surveyor General for Arizona, dated June 21, 1916 and designated as Homestead Entry Survey No. 484.

Situated in Sec. 33, T. 8 N., R. 28 E.; 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 August 20, 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.

August 20, 1916, p.m.

I observe the altitude of the sun for azimuth at cor. No. 1, hereinafter described. The reading on the reference object is set at zero and the Sun was observed in the upper left and lower right quadrants of the field. My watch is set for local mean time.

Lat. 34° 02' 30", Long. 109° 23' 53" W., from special instructions from the Surveyor General, and later verified.

TSAPACHEMOI NATIONAL FOREST

STATE OF ARIZONA

Chains	Telescope	Time	Horizontal Angle	Vertical Angle
	Direct	3h. 23m. 01s.	76° 59' 00"	39° 55' 00"
	Reversed	3h. 23m. 45s.	76° 27' 30"	40° 14' 30"

Bearing of reference object, N. 0° 06' 56" W.

At 9h. 36.9m. p.m., l.m.t., I observe Polaris at Eastern Elongation at same station, with telescope direct and reversed. The reading on the reference object W. of star is set at zero. The mean horizontal angle is 1° 28' 45" and the Azimuth of Polaris 1° 22' 40" E. Reference object therefore bears N. 0° 06' 05" W. The mean of these two observations is N. 0° 06' 31" W., and to the corresponding meridian all the courses of this survey are referred.

RETRACEMENT

August 20, 1916.

From cor. for secs. 32, 33, 4 and 5, Ts. 7 and 8 N.,

R. 28 E., re-established August 15, which is a lava stone 20 x 10 x 10 ins. above ground, marked with four notches on E. face and 2 notches on W. face, with mound of stone 3 ft. base, 2 ft. high W. of cor., whence: (See page 4, field notes of H E S 485)

A yellow pine, 8 ins. dia., bears N. 24° 30' W.,

7 lks. dist., scribed T 8 N R 28 E S 32 B T.

A yellow pine, 10 ins. dia., bears N. 62° 30' E.,

13 lks. dist., scribed T 8 N R 28 E S 33 B T.

A yellow pine, 10 ins. dia., bears S. 20° 30' E.,

49 lks. dist., scribed T 7 N R 28 E S 4 B T.

A yellow pine, 12 ins. dia., bears S. 19° 30' W.,

16 lks. dist., scribed T 7 N R 28 E S 5 B T.

Thence North.

On a random line bet. secs. 32 and 33.

40.00 At this point I make strict search for 1/4 sec. cor. bet.

APACHE NATIONAL FOREST

STATE OF ARIZONA

Chains

secs. 32 and 33, which is described by the Surveyor General as a stone with pits and mound of stone. I fail to find any trace of stone, pits or mound.

80.00

At this point I make strict search for cor. of secs. 28, 29, 32 and 33, which is described by the Surveyor General as a stone with mound of stone. After strict search I fail to find any trace of stone or mound.

August 20, 1916.

BOUNDARIES OF CLAIM

August 21, 1916.

Beginning at cor. No. 1.

Identical with cor. H-6 of the list survey, which is a lava stone 18 x 12 x 12 ins. above ground, marked and witnessed as described by the Forest Service. I destroy all trace of this list cor. Deposit a lava stone 4 x 3 x 2 ins. marked with a +, 14 ins. in the ground, over which set a lava stone 24 x 14 x 8 ins., chiseled + for the point and 1 - H E S 484 on NE. face; and raise a mound of stone 3 ft. base, 2 ft. high NE. of cor., whence:

A yellow pine, 18 ins. dia., bears N. 8° 40' E.,

29 lks. dist., scribed 1 H E S 484 + B T.

A yellow pine, 18 ins. dia., bears N. 4° 30' W.,

39 lks. dist., scribed 1 H E S 484 + B T.

Cor. for secs. 4, 5, 32 and 33, heretofore described, bears S. 2° 18' W., 24.86 chs. dist., by direct measurement.

Cor. H-5 of the list survey, which is a lava stone 16 x 4 x 8 ins. above ground, marked and witnessed as described by the Forest Service, bears N. 0° 20' E., 3.98 chs. dist.

I destroy all trace of this list cor.

APACHE NATIONAL FOREST

STATE OF ARIZONA

Chains	<p>Cor. H-4 of the list survey, which is a lava stone 14 x 6 x 10 ins. above ground, marked and witnessed as described by the Forest Service, bears N. 45° 20' E., 4.99 chs. dist.</p> <p>I destroy all trace of this list cor.</p> <p>Lat. 34° 02' 30" N., Long. 109° 23' 53" W., from special instructions from the Surveyor General, and later verified.</p> <p>Mag. decl. at 8:00 a.m., 13° 45' E. Mean mag. decl., 13° 41' E.</p>
	<p>Thence N. 1° 52' E.</p> <p>Descend 5 ft. in open to saddle.</p> <p>1.65 Low saddle. Ascend 15 ft. to ridge.</p> <p>3.60 Leave open; enter pine timber, bears NE. and NW.</p> <p>6.50 Top ridge, bears N. and S. Thence over level land along top of ridge in pine timber.</p> <p>22.30 Leave top ridge. Descend 25 ft. to arroyo.</p> <p>25.20 Arroyo, 5 lks. wide, 2 ft. deep, course East.</p> <p>25.81 To cor. No. 2.</p> <p>Identical with cor. H-3 of the list survey, which is a lava stone 12 x 6 x 4 ins. in mound of stone, marked and witnessed as described by the Forest Service. I destroy all trace of this list cor. Point for cor. falls on a lava rock in place, 3 x 2 x 2 ft. above ground. I mark a + for point and 2 - H E S 484 on SE. face; and raise a mound of stone 3 ft. base, 2 ft. high SE. of cor., whence:</p> <p>A yellow pine, 12 ins. dia., bears N. 61° 26' W., 26 lks. dist., scribed 2 H E S 484 + B T.</p> <p>A yellow pine, 8 ins. dia., bears S. 0° 14' E., 27 lks. dist., scribed 2 H E S 484 + B T.</p>
	<p>Thence S. 83° 03' E.</p> <p>Descend 20 ft. along edge of timber to cor.</p> <p>4.64 To cor. No. 3.</p>

APACHE NATIONAL FOREST

STATE OF ARIZONA

Chains

Identical with cor. H-2 of the list survey, which is a lava stone 12 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 lava stone 3 x 3 x 2 ins. marked with a +, 14 ins. in the ground, over which set a lava stone 24 x 10 x 8 ins., chiseled + for the point and 3-H E S 484 on SW. face; and raise a mound of stone 3 ft. base, 2 ft. high SW. of cor. whence:

A yellow pine, 34 ins. dia., bears N. 29° 48' E.,
59 lks. dist., scribed 3 H E S 484 + B T.

A yellow pine, 36 ins. dia., bears N. 53° 34' W.,
84 lks. dist., scribed 3 H E S 484 + B T.

Thence S: 15° 00' E.

0.60 Arroyo, 10 lks. wide, banks 5 ft. high; course E.

3:60 Small creek, running water 3 lks. wide, 1/2 ft. deep,
course NE.

4:00 Foot of slope. Ascend 30 ft. along West slope in
scattered pine timber.

8.45 Top slope. Descend 20 ft. to cor.

11.87 To cor. No. 4.

Identical with cor. H-1 of the list survey, which is a lava stone 8 x 6 x 5 ins. above ground, marked and witnessed as described by the Forest Service. I destroy all trace of this list cor. Deposit a lava stone 3 x 3 x 2 ins. marked with a +, 14 ins. in the ground, over which set a lava stone 24 x 8 x 8 ins., chiseled + for the point and 4 H E S 484 on W. face; and raise a mound of stone 3 ft. base, 2 ft. high W. of cor., whence:

A yellow pine, 20 ins. dia., bears S. 52° 44' E.,
184 links dist., scribed 4 H E S 484 + B T.

A yellow pine, 6 ins. dia., bears N. 45° 50' E.,

Chains 47 links, dist., scribed 4 H E S 484 + B T.
 Thence S. 33° 13' E.
 Descend 10 ft. in open to bottom.
 1.45 Bottom descent. Thence along gentle West slope.
 Ascend 20 ft. to cor.
 16:39 To cor. No. 5.
 Identical with cor. H-7 of the list survey, which is a lava stone 10 x 6 x 6 ins. above ground, marked and witnessed as described by the Forest Service. I destroy all trace of this list cor. Deposit a lava stone 5 x 5 x 2 ins. marked with a +, 14 ins. in the ground, over which set a lava stone 24 x 10 x 6 ins., chiseled + for the point and 5'- H E S 484 on NW. face; and raise a mound of stone 3 ft. base, 2 ft. high NW. of cor., whence:
 A yellow pine, 12 ins. dia., bears S. 42° 30' W., 217 lks. dist., scribed 5 H E S 484 + B T.
 A yellow pine, 8 ins. dia., bears N. 16° 30' E., 69 lks. dist., scribed 5 H E S 484 + B T.

Thence S. 89° 50' W.
 0.50 Arroyo, 4 lks. wide, 4 ft. deep, course N. 80° W.
 Descend 10 ft. in open to creek.
 9.06 Small creek, 2 lks. wide, 6 ins. deep, course NNW.
 Thence over open bottom land.
 14.00 Foot slope. Ascend 25 ft. to cor.
 17.51 To cor. No. 1, the place of beginning.

AREA

Total Area - - - - - 24.99 acres.

Line 1-2 of this survey was run from Cor. H-6 to H-3 of the list survey in order to simplify the boundaries of the claim and to eliminate unnecessary corners.

63

APACHE NATIONAL FOREST

STATE OF ARIZONA

Chains

IMPROVEMENTS

No improvements have been made upon this claim.

DESCRIPTION

This claim lies in an open draw along a small stream which is a tributary to South Fork of the Little Colorado. The general slope is to the North and the elevation is approximately 8700 ft. The timber consists of a stand of scattered and young pine along East and West boundaries. The soil is a black clayey loam of good depth and will produce good crops. A small creek running through the claim will furnish sufficient water for domestic use and for irrigation of arable land should irrigation be necessary. There has been no cultivation. I saw no indications of mineral upon the claim.

CONFLICTS AND ADJOINING CLAIMS

There are no conflicting or adjoining claims. Springerville, Arizona, the nearest post office and commercial center, is 12 miles dist. Half of the distance is covered by good trail and the remainder by good wagon road.

TRAVERSE

Cor.	Course	Dist,	N	S	E	W
1-2	N. 1° 52' E.	25.81	25.80		0.84	
2-3	S. 83° 03' E.	4.64		0.56	4.61	
3-4	S. 15° 00' E.	11.87		11.47	3.07	
4-5	S. 33° 13' E.	16.39		13.70	8.98	
5-1	S. 89° 50' W.	17.51		0.05		17.51
		76.22	25.80	25.78	17.50	17.51
			25.78			17.50
	Error in Lat. and Dep.		.02			.01

Closing error, 1:3409

Survey completed August 21, 1916.

R. B. Johnson
Surveyor - Draftsman

Chains

Chains

No improvements have been made upon this claim.

DESCRIPTION

This claim lies in an open draw about a small stream which is tributary to North Fork of the Middle Colorado. The general slope is to the north and the elevation is approximately 800 ft. The timber consists of a stand of scattered and young pine along east and west boundaries. The soil is a black clayey loam of good depth and will produce good crops. A small creek running through the claim will furnish sufficient water for domestic use and for irrigation of arable land should irrigation be necessary. There has been no cultivation. I saw no indications of minerals upon the claim.

COMMENTS AND ADJOINING CLAIMS

There are no conflicting or adjoining claims. In the vicinity, however, the nearest post office is Commercial Center, 12 miles distant. Half of the distance is covered by good trail and the remainder by wagon road.

TRAVELERS

Course	Dist.	N	S	E	W
1-2	1° 32'	25.81	25.80	0.01	0.01
2-3	3° 00'	25.84	25.83	0.01	0.01
3-4	3° 15'	25.87	25.86	0.01	0.01
4-5	3° 30'	25.90	25.89	0.01	0.01
5-1	3° 45'	25.93	25.92	0.01	0.01
Total		128.35	128.34	0.01	0.01
Error in Lat. and Dep.		0.02			

Survey completed August 2, 1916.
Dipping error, 1:2000

Surveyor - [Signature]

HOMESTEAD ENTRY SURVEY NO. 484.

APACHE NATIONAL FOREST

STATE OF ARIZONA.

65

Chains

Direct Solar, August 20, 1916, at cor. No. 1,

H. E. S. 484 of Burnham Neff.

Lat. $34^{\circ} 02' 30''$ N., Long. $109^{\circ} 23' 53''$ W. Elev. 8700 ft.

Telescope	Time	Horizontal Angle	Vertical Angle
Direct	3h. 23m. 01s.	$76^{\circ} 59'$	$39^{\circ} 55'$
Reversed	3h. 23m. 45s.	$76^{\circ} 27' 30''$	$40^{\circ} 14' 30''$
	3h. 23m. 23s.	$76^{\circ} 43' 15''$	$40^{\circ} 04' 45''$
			$51''$
			$40^{\circ} 03' 54''$

Decl. $12^{\circ} 19' 20''$ N.

$$\text{Cos. } Q. = \frac{\sin. 12^{\circ} 19' 20''}{\cos. 34^{\circ} 02' 30'' \times \cos. 40^{\circ} 03' 54''}$$

$$\tan. 34^{\circ} 02' 30'' \times \tan. 40^{\circ} 03' 54''$$

$$\begin{aligned} \log. \sin. 12^{\circ} 19' 20'' &= 9.329214 \\ \log. \cos. 34^{\circ} 02' 30'' &= 9.918361 \\ \log. \cos. 40^{\circ} 03' 54'' &= 9.883840 \\ \hline &= 9.527013 = .33652 \end{aligned}$$

$$\begin{aligned} \log. \tan. 34^{\circ} 02' 30'' &= 9.829669 \\ \log. \tan. 40^{\circ} 03' 54'' &= 9.924814 \\ \hline &= 9.754483 = .56818 \end{aligned}$$

$$\begin{aligned} \text{Cos. } Q. &= .23166 \\ Q. &= 76^{\circ} 36' 19'' \end{aligned}$$

Bearing of reference object, N. $0^{\circ} 06' 56''$ W.

66

HOMESTEAD ENTRY SURVEY NO.

NATIONAL FOREST

STATE OF

Chains

Chains

Direct Solar, August 20, 1918, at cor. No. 1,
 U. S. Forest of Burman Hill,
 Lat. 34° 02' 50" N., Long. 109° 23' 25" W., Elev. 8700 ft.
 Telescope, Time, Horizontal, Vertical, Azimuth, Angle
 Direct, 31.43m. Obs. 78° 59' 38" 55"
 Reversed, 31.43m. Obs. 78° 59' 30" 48" 11"
 31.43m. Obs. 78° 59' 15" 40" 04"
 31.43m. Obs. 78° 59' 15" 40" 04"
 Defl. 12' 19" 30" N.
 Cor. C. = $\frac{31.43 \times \sin 12' 19" 30"}{\cos 31' 01" 50" \times \cos 40' 04" 48"}$
 31.43m. Obs. 78° 59' 15" 40" 04"
 Log. sin. 12' 19" 30" = 0.213214
 Log. cos. 34' 02' 50" = 9.912581
 Log. cos. 40' 04" 48" = 9.883241
 Log. tan. 34' 02' 50" = 9.822633
 Log. tan. 40' 04" 48" = 9.922814
 Log. tan. 40' 04" 48" = 9.922814
 Cor. C. = 45° 38' 15"
 Bearing of reference object, N. 0° 00' 00" W.

- DIRECTIONS.—1. Carry out calculations to two decimals only.
 2. In balancing Latitudes and Departures do not obliterate or change the original figures. Put the corrected figure or figures above in red ink. Do not change the footing of the original figures, but put below them the corrected footing in red ink. The corrections for balancing fallings should be proportional to the lengths of the lines.
 3. In calculations of fallings take result to nearest link. In calculations of N. and S. areas drop all after second decimal. Surveyors are required to use the Standard Field Tables issued by the G. 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. 484, STATE OF Arizona.

CORNERS.	BEARING.	DISTANCE.	LATITUDES.		DEPARTURES.		DOUBLE M. D.	N. AREAS.		S. AREAS.
			NORTH.	SOUTH.	EAST.	WEST.				
1-2	N. 1° 52' E.	25.81	25.79		84		85	21 92		
2-3	S. 83° 03' E.	4.64	25.80	56	4 61		6 31		3 53	
3-4	S. 15° 00' E.	11.87		11 47	3 07		13 99		160 47	
4-5	S. 33° 13' E.	16.39		13 70	8 98		26 04		356 75	
5-1	S. 89° 50' W.	17.51		05			17 51		1 05	
		76.22	25 80	25 78	17 50			21 92	521 80	
			25 79	25 79	17 51				21 92	
									20/499 88	
									24 994	Acres.

67

2411

DIRECTIONS.—1. Carry out calculations 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.

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TABLING AND CALCULATIONS OF HOMESTEAD ENTRY SURVEY NO. 484, STATE OF Arizona

CORNERS.	BEARING.	DISTANCE.	LATITUDES.		DEPARTURES.		DOUBLE M. D.	N. AREAS.	S. AREAS.
			NORTH.	SOUTH.	EAST.	WEST.			
1-2	N. 1° 52' E.	25.81	79 25 80		84 85		85	21 92	
2-3	S. 83° 03' E.	4.64		56	4 61		6 31		3 53
3-4	S. 15° 00' E.	11.87		11 47	3 07		13 99		160 47
4-5	S. 33° 13' E.	16.39		13 70 06	8 98		26 04		356 75
5-1	S. 89° 50' W.	17.51		05			17 51		1 05
		76.22	25 80	25 78	17 50	17 51		21 92	521 80
			25 79	25 79	17 51	17 51			21 92
									20/499 88
									24 994 ACRES.

69

71ⁿ

APPROVAL

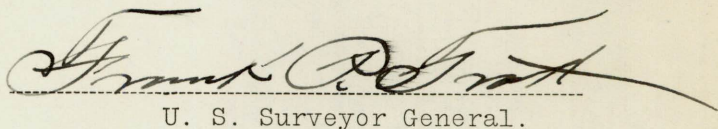
Office of the United States Surveyor General,

Phoenix, Arizona, June 29, 1918

The foregoing field notes of Homestead Entry Survey No.

484

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.

72B
Our records show that Mr. Burnham Neff filed entry 028561 on October 11, 1915; the entryman was not present on August 21, 1916, when the survey was made and the claim at that time showed ~~as~~ signs of occupancy. The Forest Supervisor reports under date of November 16, 1918, that "Mr. Burnham Neff abandoned his claim immediately after entry and has never established residence. His present whereabouts is unknown."

The changes made in the boundaries of this claim were for the purpose of simplifying the boundaries and to eliminate unnecessary corners. In view of the fact that the area involved by the change is inconsequential, and the entry to all practical purposes abandoned, we believe no objection would be offered to survey.

C. Long

484