

ORIGINAL

139

U. S. DEPARTMENT OF AGRICULTURE  
FOREST SERVICE

JAN 27 1919

FIELD NOTES

OF

HOMESTEAD ENTRY SURVEY NO. 489

SITUATED IN THE APACHE NATIONAL FOREST

ADMINISTRATIVE DISTRICT NO. 3

In Section 34 , unsurveyed, Township 2 S., Range 28 E.

And Establishment of U. S. L. M. No. 489 H. E. S.

of the

Gila and Salt River Base and Meridian.

State of

ARIZONA

Applicant for listing Eugene Hopper,

Residence Metcalf, Arizona

Application No. 71 , dated December 15 , 19 08

List No. 3-1124 , dated February 9 , 1911

Applicant for survey Thomas B. McCulloch,

Residence Metcalf, Arizona

H. E. No. 025740 , dated September 17 , 19 14

Office  
Land District Phoenix, Arizona

Survey executed by Lee C. Daves, Surveyor - Forest Service  
[Forest Service Title.]

Under special instructions dated June 21 , 1916

Survey commenced March 24 , 19 17

Survey completed March 25 , 1917

Under Acts of June 11, 1906 and August 11, 1916



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489

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OATH OF ASSISTANTS

We hereby certify that we assisted **Lee C. Daves,**  
**Surveyor - Forest Service** in surveying all those  
 [Forest Service Title.]  
 parts or portions of Homestead Entry Survey No. **489**, 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.

*P. J. Ambrose*, Chairman  
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Subscribed and sworn to before me this **15th** day of  
**July**, 19**17**

*Lee C. Daves*  
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**Surveyor, Forest Service**  
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7/15/17

OATH OF SURVEYOR

I, **Lee C. Daves,** **Surveyor Forest Service**  
 [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**, 19**16**, 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. **3-1124**, dated **February 9**, 19**11**, for  
**Patent**, under the Act of **June 11**, 19**06**,  
 the same to be known as Homestead Entry Survey No. **489**,  
 situated within the **Apache** National Forest, in  
 unsurveyed Section **34**, Township **2 S.**, Range **28 E.**, and  
 - surveyed Section - - - - , Township - - - - , Range - - - - ,

of the **Gila and Salt River Base & 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.

*Lee C. Daves*  
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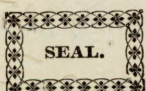
**Surveyor, Forest Service**  
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[Forest Service Title.]

Subscribed and sworn to before me this **fifth** day of  
**October**, 19**18**

*Ethel G. Myers*  
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**Notary Public.**  
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8-2349

My Commission expires March 17, 1921.



APACHE NATIONAL FOREST

STATE OF ARIZONA

Chains Applicant for listing Eugene Hopper; Application No. 71, dated December 15, 1908; List No. 3-1124, dated February 9, 1911; H. E. 025740, made in the Phoenix Land Office on September 17, 1914 by Thomas B. McCulloch.

Surveyed under special instructions from the Surveyor General for Arizona, dated June 21, 1916 and designated as Homestead Entry Survey No. 489.

Situated in what will probably be, when surveyed, Sec. 34, T. 2 S., 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 March 24, 1917 and executed with a Buff and Buff transit No. 9702, 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.

March 24, 1917.

At U. S. L. M. No. 489 H. E. S, hereinafter described, in Lat.  $33^{\circ} 13' 07''$  N., Long.  $109^{\circ} 26' 57''$  W., from Forest Service Base Map, I observe Polaris at W. Elong. at 7h. -18.4m. p.m., l.m.t.

Reference mark: A light on a stake about 40.00 chs.

Northwardly of my station.

$$1. \quad 1/4(14^{\circ} 36' 00'') = 3^{\circ} 39' 00''$$

$$2. \quad 1/2(7^{\circ} 17' 15'') = 3^{\circ} 38' 38''$$

$$3. \quad 1/6(21^{\circ} 53' 00'') = 3^{\circ} 38' 50''$$



Chains' Azimuth of Polaris at W. Elong.  $178^{\circ} 3' 44''$   
Mean Angle,  $3^{\circ} 38' 49''$   
Azimuth of Mark,  $174^{\circ} 59' 55''$   
Bearing of Mark, N.  $5^{\circ} 00' 05''$  W.  
From this azimuth all the courses of this survey are referred by angulation.

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There being no corner of the Public Land Survey or U. S. Location Monument within two miles, I establish U. S. L. M: No. 489 H. E. S. as follows:  
This monument is situated about 100 lks. in a Southwesterly direction from the highest point of a round summit in the ridge North of Tule Creek. Also about 3.00 chs. E. of a drift fence bearing N. and S. and about 20.00 chs. Northwardly of Tule Springs. I cut a + and U S L M No 489 H ES on top of a limestone boulder in place, showing 48 x 24 x 16 ins. above ground; and raise a mound of stone 6 ft. base and 5 ft. high SE. of cor., whence:  
A juniper, 10 ins. dia., bears N.  $38^{\circ} 10'$  E., 270 lks. dist., marked U S L M No 489 H E S + B T.  
No other witnesses available.  
Grey's Peak bears N.  $70^{\circ} 56'$  E., about 2-1/2 miles dist.  
A sharp peak bears S.  $76^{\circ} 23'$  E., about 4-1/2 miles dist.  
The middle one of three peaks in the Coronado Ridge bears S.  $4^{\circ} 00'$  E., about 5-1/2 miles dist.  
The highest point of Turtle Mountain bears S.  $16^{\circ} 48'$  W., about 8 miles dist.  
Graham Mountain (highest point) bears S.  $34^{\circ} 43'$  W., about 43 miles dist.



Chains

A sharp peak near Eagle Pass bears S.  $49^{\circ}$

13' W., about 50 miles dist.

Highest point of Elevation Mountain bears

N.  $84^{\circ} 59'$  W., about 9-1/2 miles dist.

March 24, 1917.

BOUNDARIES OF CLAIM.

March, 25, 1917.

Beginning at cor. No. 1.

Identical with cor. H-2 of the list survey, which is a

basalt stone 12 x 8 x 4 ins. above ground, marked and

witnessed as described by the Forest Service. I de-

stroy all trace of this list cor. Deposit a limestone

6 x 6 x 1 ins. marked with a +, 14 ins. in the ground,

over which set a limestone 24 x 12 x 12 ins., chiseled

+ for the point and 1 - H E S 489 on S. face; and raise

a mound of stone 4 ft. base, 2 ft. high S. of cor.,

whence:

A pinon, 6 ins. dia., bears S.  $28^{\circ} 55'$  E.,

218 lks. dist., marked 1 H E S 489 + B T.

NE. cor. adobe house bears S.  $39^{\circ} 31'$  W.

16.75 chs. dist.

SE. cor. frame shed bears S.  $39^{\circ} 50'$  W.,

14.43 chs. dist.

U. S. L. M. No. 489 H. E. S., heretofore de-

scribed, bears N.  $0^{\circ} 36'$  E., 9.91 chs. dist.,

by direct measurement.

Lat.  $33^{\circ} 13' 01''$  N., Long.  $109^{\circ} 26' 57''$  W., from Forest

Service Base Map.

Mag. decl. at 6:00 a.m. is  $12^{\circ} 30'$  E. Mean mag. decl.

is  $12^{\circ} 28'$  E.

Thence S.  $30^{\circ} 28'$  E.

Desc. rocky S. slope.

4.40 Bottom 200 ft. desc. Arroyo, 50 lks. wide (dry), course



## APACHE NATIONAL FOREST

STATE OF ARIZONA

Chains	SW. Asc. 60 ft. to cor., entering hackberry and ash timber on South side arroyo.
9.70	Wire fence bears NW. and SE.
12.50	Running stream from Tule Springs, 10 lks. wide, 6 ins. deep, course NW.
13.30	Rail fence bears E. and W.
13.41	To cor. No. 2.  Identical with cor. H-1 of the list survey, also F. S. M., which is a malpais stone 12 x 18 x 24 ins. above ground, marked and witnessed as described by the Forest Service. I destroy all trace of this list cor. and F. S. M. Deposit a porphyry stone 6 x 4 x 2 ins. marked with a +, 14 ins. in the ground, over which set a porphyry stone 24 x 10 x 5 ins., chiseled for the point and 2 - H E S 489 on NW. face; and raise a mound of stone 4 ft. base, 2 ft. high NW. of cor., whence: A hackberry, 24 ins. dia., bears N. 22° 40' E., 150 lks. dist. A hackberry, 30 ins. dia., bears N. 63° 15' W., 18 lks. dist. Each marked 2 H E S 489 + B T.
	Thence S. 57° 48' W.  Ascend along N. slope and S. edge of timber.
1.50	Top 10 ft. asc. on NW. slope. Desc. 50 ft. to cor.
5.20	Arroyo, 15 lks. wide, 2 ft. deep, course NW.
9.45	Arroyo, 20 lks. wide, 3 ft. deep, course NW.
18.40	Arroyo, 10 lks. wide, 1 ft. deep, course NW.
21.47	To cor. No. 3.  Identical with cor. H-5 of the list survey, which is a limestone in a mound of stones, marked and witnessed as described by the Forest Service. I destroy all trace of this list cor. Deposit a porphyry stone 6 x 6 x 2 ins. marked with a +, 14 ins. in the ground, over



## APACHE NATIONAL FOREST

STATE OF ARIZONA

Chains	<p>which set a sandstone 24 x 8 x 6 ins., chiseled + for the point and 3 - H E S 489 on NW. face; and raise a mound of stone 4 ft. base, 2 ft. high NW. of cor., whence:</p> <p>A juniper 5 ins. dia., bears N. 63° 45' E., 142 lks. dist.</p> <p>A juniper, 5 ins. dia., bears N. 27° 50' W., 204 lks. dist.</p> <p>Each marked 3 H E S 489 + B T.</p> <hr/>
	<p>Thence S. 76° 27' W.</p> <p>Desc. along N. slope, through scattering juniper and oak.</p>
28.00	<p>Tule Creek, 60 lks. wide, 6 ft. deep, running water 8 lks. wide, 6 ins. deep, course S. 60° W.</p>
31.50	<p>To cor. No. 4.</p> <p>Identical with cor. H-4 of the list survey, which is a limestone 4 x 10 x 16 ins. above ground, marked and witnessed as described by the Forest Service. I destroy all trace of this list cor. Deposit a limestone 5 x 4 x 2 ins. marked with a +, 14 ins. in the ground, over which set a limestone 24 x 16 x 6 ins., chiseled + for the point and 4 - H E S 489 on NE. face; and raise a mound of stone 4 ft. base, 2 ft. high NE. of cor., whence:</p> <p>An Arizona Cypress, 36 ins. dia., bears S. 37° 30' E., 10 lks. dist.</p> <p>A walnut, 8 ins. dia., bears N. 16° 38' E., 59 lks. dist.</p> <p>Each marked 4 H E S 489 + B T.</p> <hr/>
	<p>Thence N. 29° 20' W.</p> <p>Leave scattering timber E. and W. Ascend 10 ft. to cor. on open South slope.</p>



Chains  
4.35

To cor. No. 5.

Identical with cor. H-3 of the list survey, which is a malpais stone 6 x 14 x 8 ins. above ground, marked and witnessed as described by the Forest Service. I destroy all trace of this list cor. Deposit a basalt stone 6 x 4 x 4 ins. marked with a +, 14 ins. in the ground, over which set a limestone 24 x 8 x 6 ins., chiseled + for the point and 5 - H E S 489 on SE. face; and raise a mound of stone 4 ft. base, 2 ft. high SE.

of cor., whence:

A juniper 6 ins. dia., bears N. 45° 55' E.,  
134 lks. dist., marked 5 H E S 489 + B T.

No other bearings available. Pits impracticable.

Thence N. 58° 55' E.

Ascending 250 ft. to cor. along South slope, over open land.

51.50 To cor. No. 1 and point of beginning.

#### AREA

Total Area - - - - - 56.60 acres

#### IMPROVEMENTS

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

An adobe house, 40 x 20 ft., the long side extending E. and W. and the NE. cor. of which bears S. 39° 31' W., 16.75 chs. dist. from cor. No. 1.

Value ----- \$1000.00

A frame shed 30 x 18 ft., the long side extending N. and S., the SE. cor. of which bears S. 39° 50' W.,



## APACHE NATIONAL FOREST

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Chains

14.43 chs. dist. from cor. No. 1.

Value ----- \$ 75.00

A well, 30 ft. deep, with 12 ft. water, the center of which bears S. 39° 42' W., 18.05 chs. dist. from cor. No. 1.

Value ----- \$250.00

## DESCRIPTION

The claim is situated in the canyon of Tule Creek. The soil is sandy and well adapted to agriculture. Water is obtained for domestic use from a well near the house. For stock and irrigation, the water from Tule Springs is used. There is no timber of commercial value upon the claim. About 20 acres in the middle and Eastern part of the claim are in cultivation. There were no indications of mineral upon the land.

## CONFLICTS AND ADJOINING CLAIMS

There are no conflicts or adjoining claims. Metcalf, Arizona, the nearest post office and trading point, is 12 miles in a Southeasterly direction by trail.

## TRAVERSE

Cor.	Course	Dist.	N	S	E	W
1-2	S. 30° 28' E.	13.41		11.56	6.80	
2-3	S. 57° 48' W.	21.47		11.44		18.17
3-4	S. 76° 27' W.	31.50		7.38		30.62
4-5	N. 29° 20' W.	4.35	3.79			2.13
5-1	N. 58° 55' E.	51.50	26.59		44.11	
		122.23	30.38	30.38	50.91	50.92
				30.38		50.91
				.00		.01

Error in Lat. and Dep.  
Closing Error, 1:12223

Survey completed March 25, 1917.

*Lucas*  
Surveyor - Forest Service



Chains

14.48 chs. dist. from cor. No. 1.

Value ----- \$ 75.00

A well, 30 ft. deep, with 18 ft. water, the center of which bears S. 32° 43' W. 18.5 chs. dist. from cor. No. 1.

Value ----- \$250.00

DESCRIPTION

The claim is situated in the canyon of Tule Creek. The soil is sandy and well adapted to agriculture. Water is obtained for domestic use from a well near the house. For stock and irrigation, the water from Tule Springs is used. There is no timber of commercial value upon the claim. About 80 acres in the middle and Eastern part of the claim are in cultivation. There were no indications of mineral upon the land.

CONFLICTS AND ADJOINING CLAIMS

There are no conflicts or adjoining claims. Metcalf, Arizona, the nearest post office and trading point, is 12 miles in a southeasterly direction by trail.

TRAVELER

Cor.	Course	Dist.	N	S	E	W
1-2	S. 30° 22' E.	13.41		11.55	6.80	
2-3	S. 57° 48' W.	21.47		11.44		18.17
3-4	S. 76° 27' W.	21.50		7.33		30.63
4-5	N. 39° 30' W.	4.35	3.79			9.13
5-1	N. 38° 55' E.	21.50	23.29		44.11	
		122.23	30.38	30.38	30.91	30.93
			30.38			30.91
				30.00		30.01

Error in lat. and Dep.  
Closing Error, 1:12223

Survey completed March 25, 1917.

Surveyor - Forest Service



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APPROVAL

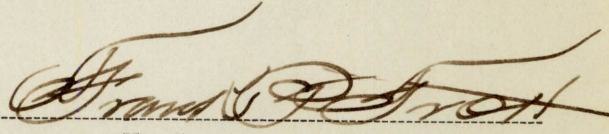
Office of the United States Surveyor General,

Phoenix, Arizona, March 27, 1920

The foregoing field notes of Homestead Entry Survey No.

489

executed by Lee C. Daves, Surveyor  
[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.