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ORIGINAL
U. S. DEPARTMENT OF AGRICULTURE
FOREST SERVICE

JAN 27 1919
APR 17 1920

FIELD NOTES

OF

HOMESTEAD ENTRY SURVEY NO. 487

SITUATED IN THE APACHE NATIONAL FOREST

ADMINISTRATIVE DISTRICT NO. 3

In Section 10, unsurveyed, Township 3 S., Range 28 E.

of the

Gila and Salt River Base and Meridian.

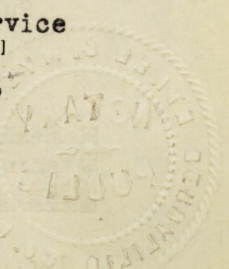
State of

ARIZONA

Applicant for listing R. H. Catlett,
 Residence Metcalf, Arizona
 Application No. 59, dated May 3, 1908
 List No. 3-12, dated January 20, 1909

Applicant for survey John S. Thompson,
 Residence Metcalf, Arizona
 H. E. No. 043088 - Sept. 26, 1919 - Virgil J. Leonard, dated June 2, 1914 Relinquished 9/26/19
 Office Phoenix, Arizona
 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 22, 1917
 Survey completed March 23, 1917
 Under Acts of June 11, 1906 and August 11, 1916



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487

Apache

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. **487**, 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

Subscribed and sworn to before me this **15th** day of
July, 1917
Lucas Jones

Surveyor, Forest Service

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, 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. **3-12**, dated **January 20**, 1909, for
Patent, under the Act of **June 11**, 1906,
 the same to be known as Homestead Entry Survey No. **487**,
 situated within the **Apache** National Forest, in
unsurveyed Section **10**, Township **3 S.**, Range **28 E.**, and
 - surveyed Section - - - - , Township - - - - , Range - - - - ,

of the **Gila & 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.

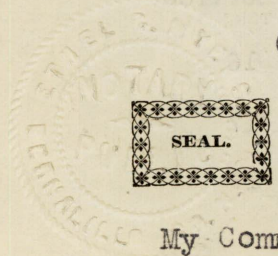
Lucas Jones

Surveyor, Forest Service
 [Forest Service Title.]

Subscribed and sworn to before me this **fifth** day of
October, 1918

Ethel G. Myers

Notary Public.



8-2349

My Commission expires March 17, 1921.

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APACHE NATIONAL FOREST

STATE OF ARIZONA

Chains

Applicant for listing R. H. Catlett; Application No. 59, dated May 3, 1908; List No. 3-12, dated January 20, 1909; H. E. 025207, made in the Phoenix Land Office on June 2, 1914 by John S. Thompson.

Surveyed under special instructions from the Surveyor General for Arizona, dated June 21, 1916, and designated as Homestead Entry Survey No. 487.

Situated in what will probably be when surveyed, Sec. 10 T. 3 S., R. 28 E., Gila and Salt River Base and Meridian, within the Apache National Forest, Arizona.

Note: The listing survey locates this claim in Sec. 33, T. 2 S., R. 28 E., which location is found to be in error by reason of the tie to the 50 mile post on E. bdy. of White Mountain Indian Reservation, hereinafter described.

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

Survey commenced March 22, 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 22, 1917.

At Cor. No. 1, hereinafter described, Lat. 33° 10' 52" N., Long. 109° 27' 40" W., from U.S.G.S. Topographic Sheet of the Morenci Quadrangle, I observe Polaris for azimuth at 7h. 26.3m. p.m., l.m.t. at W. Elong.

Reference Mark: A light on a stake near Cor. No. 2, about 26.00 chains Northeasterly of this station.

Angles read by repetition from star to mark.

Chains

1. $1/6(310^{\circ} 52' 30") = 51^{\circ} 48' 45"$

2. $1/4(207^{\circ} 15' 30") = 51^{\circ} 48' 52"$

Difference bet. obsns. is $0' 07"$.

Azimuth of star at W. Elong. $178^{\circ} 38' 47"$

Mean angle, $51^{\circ} 48' 48"$

Azimuth of Ref. Mark, $230^{\circ} 27' 35"$

Bearing of Reference Mark, N. $50^{\circ} 27' 35"$ E.

March 22, 1917.

March 23, 1917.

At Cor. No. 1, I find the angle between the Reference Mark and Cor. No. 2 to be (Cor. to left of Mark)=

$0^{\circ} 08' 30"$

Bearing of Mark, N. $50^{\circ} 27' 35"$ E.

Bearing of Cor. No. 2, N. $50^{\circ} 19' 05"$ E.

I accept the bearing of Cor. No. 2 as N. $50^{\circ} 19'$ E., from which all the bearings of this claim are deflected.

BOUNDARIES OF CLAIM

Beginning at Cor. No. 1,

Identical with cor. H/2. of the list survey, which is a basalt stone in place showing 24 x 18 x 16 ins. above ground, marked and witnessed as described by the Forest Service. I destroy all trace of the marks pertaining to the list survey, and chisel same stone + for the point and 1 - H E S 487 on N. face; and raise a mound of stone 4 ft. base, 2 ft. high N. of cor., whence:

A live oak 5 ins. dia. bears S. $69^{\circ} 55'$ W.,
37 lks. dist.

A juniper 7 ins. dia., bears N. $52^{\circ} 00'$ W.,
38 lks. dist.

Each marked 1 H E S 487 + B. T.

The 50 mile post on the E. boundary of the White Mountain Indian Reservation, an iron post 12 ins. above ground, 3 ins. dia., with

APACHE NATIONAL FOREST

STATE OF ARIZONA

Chains

brass cap, marked and witnessed as described by the Surveyor General, bears N. 88° 21' 32" W., 158.89 chs. dist., by traverse which appears at the end of these notes.

Lat. 33° 10' 52" N., Long. 109° 27' 40" W., from U. S.

G. S. Topographic Sheet of the Morenci Quadrangle.

Mag. decl. at 7:00 a.m. is 13° 30' E. Mean mag. decl. is 13° 27' E.

Thence N. 50° 19' E.

Desc. steep and rocky side hill through juniper, soto and Spanish Daggers.

3.10 Trail bears N. and S.

4.00 Wire fence bears E. and W.

7.00 Bottom 90 ft. desc. at mouth of ravine, course SE.

Asc. steep and rocky SE. slope.

18.70 Top 80 ft. asc. on spur, bears SE. Desc. 70 ft. abruptly.

21.00 Bottom desc. Arroyo in Bud Wilson Canyon, 40 lks. wide, 3 ft. deep (dry), course S. Asc. 100 ft. to cor.

25.98 To cor. No. 2.

Point for cor. falls on a limestone in place, showing 48 x 28 x 24 ins. above ground, chiseled + for the point and 2 - H E S 487 on W. face; and raise a mound of stone 4 ft. base, 2 ft. high W. of cor., whence:

A juniper, 12 ins. dia., bears S. 16° 15' W., 72 lks. dist.

A pinon 6 ins. dia., bears N. 74° 35' W., 55 lks. dist.

Each marked 2 H E S 487 + B T.

Cor. H-3 of the list survey, which is a malpais stone 3 x 4 x 3 ins. above ground, marked and witnessed as described by the

APACHE NATIONAL FOREST

STATE OF ARIZONA

Chains

Forest Service, bears S. 20° W., 4 lks. dist.
I destroy all trace of this list cor.

Thence S. 37° 25' E.

Ascending 15 ft. along W. slope.

1.00 Top asc. Desc. 90 ft. along S. slope.

6.30 Bottom desc. Running stream 8 lks. wide, 6 ins. deep,
course S. 60° W. Asc. 80 ft. to cor. on N. slope.

Enter scattering pinon bearing E. and W.

8.40 To cor. No. 3.

Identical with cor. H-4 of the list survey, which is
a basalt stone in place showing 48 x 16 x 12 ins.
above ground, marked and witnessed as described by
the Forest Service. I destroy all trace of the mark-
ings pertaining to the list survey, and for cor. No.
3 of this survey chisel same stone + for the point
and 3 - H E S 487 on W. face; and raise a mound of
stone 4 ft. base, 2 ft. high W. of cor., whence:

A pinon, 10 ins. dia., bears N. 10° 00' E.,

52 lks. dist.

A pinon, 8 ins. dia., bears N. 51° 05' E.,

62 lks. dist.

Each marked 3 H E S 487. + B T.

Thence S. 43° 10' W.

Along rocky hill side, through scattering pinon

and juniper timber.

10.00 Desc. abruptly into canyon, course W.

14.00 Bottom 90 ft. desc. Arroyo 15 lks. wide, 2 ft. deep
(dry), course W. Asc.

18.80 Trail bears NW. and SE.

19.60 Top 90 ft. asc.; thence along steep and rocky W. slope.

26.45 To cor. No. 4.

Identical with cor. H-1 of the list survey, which is

APACHE NATIONAL FOREST

STATE OF ARIZONA

Chains a basalt stone in place showing 38 x 36 x 30 ins. above ground, marked and witnessed as described by the Forest Service. I destroy all trace of the markings pertaining to the list survey, and for cor. No. 4 of this survey I chisel same stone + for the point and 4 - H E S 487 on N. face; and raise a mound of stone 4 ft. base, 2 ft. high N. of cor., whence:

- A juniper, 5 ins. dia., bears N. 35° 00' E., 15 lks. dist.
- A pinon, 10 ins. dia., bears S. 80° 00' E., 17 lks. dist.

Each marked 4 H E S 487 + B T.

Thence N. 36° 45' W.

Desc. steep and rocky W. slope, through scattering pinon and juniper.

8.65 Bottom 100 ft. desc., running stream 15 lks. wide, 1 ft. deep, course SW. Asc. 100 ft. to cor.

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

AREA

Total Area - - - - - 26.12 acres

IMPROVEMENTS

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

A log house, 20 x 12 ft., the long side extending NW. and SE., the W. cor. of which bears S. 87° 50' E., 4.40 chs. dist. from cor. No. 1.

Value ----- \$200.00

A log stable, 16 x 24 ft., the long side extending E. and W., the SW. cor. of which bears N. 62° 25' E., 6.15 chs. dist. from cor. No. 1.

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Chains. Value ----- \$100.00

DESCRIPTION

This claim is situated in Dark Canyon.
 A running stream of water flows from NE. to SW. across the land. Water for domestic purposes and stock is obtained from this creek.
 There is no timber of any value on the claim.
 About an acre may be cultivated.
 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 settlement is about 15 miles in a Southeasterly direction by trail.

TRAVERSES

Cor.	Course	Dist.	N.	S.	E.	W.
1-2	N. 50° 19' E.	25.98	16.59		19.99	
2-3	S. 37° 25' E.	8.40		6.67	5.10	
3-4	S. 43° 10' W.	26.45		19.29		18.10
4-1	N. 36° 45' W.	11.70	9.37			7.00
		<u>72.53</u>	<u>25.96</u>	<u>25.96</u>	<u>25.09</u>	<u>25.10</u>
				<u>25.96</u>		<u>25.09</u>
	Error in Lat. and Dep.			.00		.01

Closing Error, 1:7253.

Tie from Cor. No. 1 to 50 Mile Post on E. Bdy. Apache Indian Reservation.

Course	Dist.	N.	S.	E.	W.
N. 81° 00' E.	2.20	0.34		2.17	
N. 88° 10' W.	160.90	5.15			160.82
S. 10° 03' W.	0.95		0.94		0.17
		<u>5.49</u>	<u>0.94</u>	<u>2.17</u>	<u>160.99</u>
		<u>0.94</u>			<u>2.17</u>
		<u>4.55</u>			<u>158.82</u>

Tie is N. 88° 21' 32" W., 158.89 chs.

Survey completed March 23, 1917.

L. C. Jones
 Surveyor - Forest Service

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. I. 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. 487, STATE OF ARIZONA.

CORNERS.	BEARING.	DISTANCE.	LATITUDES.		DEPARTURES.		DOUBLE M. D.		N. AREAS.	S. AREAS.
			NORTH.	SOUTH.	EAST.	WEST.				
1-2	N. 50° 19'E	25.98	16 59		19 99		19 99	331	63	
2-3	S. 37° 25'E	8.40		6 67	5 10		45 08	3000	68	
3-4	S. 43° 10'W	26.45		19 29		18 10	32 09	619	02	
4-1	N. 36° 45'W	11.70	9 37			7 00	7 00	65	59	
		72.53	25 96	25 96	09 25	10 25	397	919	70	
			25 96	25 96	09 25	10 25	397	397	22	
							20/	522	48	
								26	12	acres
		Closing error 1:7253								

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APPROVAL

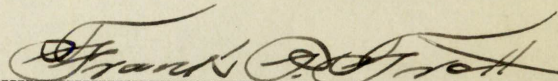
Office of the United States Surveyor General,

Phoenix, Arizona, April 14, 1920

The foregoing field notes of Homestead Entry Survey No.

487

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.