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ORIGINAL

Form 85  
Sheet No. 1  
(Revised July 1, 1914.)

U. S. DEPARTMENT OF AGRICULTURE  
FOREST SERVICE

15  
MAY 19 1920  
JUN 1 1920

FIELD NOTES

OF

HOMESTEAD ENTRY SURVEY NO. 545

SITUATED IN THE TUSAYAN NATIONAL FOREST

ADMINISTRATIVE DISTRICT NO. 3

In Section 12 , unsurveyed, Township 17 N., Range 2 E.

of the

GILA AND SALT RIVER BASE & Meridian.

State of

ARIZONA

Applicant for listing	Rosendo Alvarez,
Residence	Clarkdale, Arizona.
Application No. 245	, dated August 13 , 19 12
List No. 3-2321	, dated February 28 , 19 13

Applicant for survey	Rosendo Alvarez,
Residence	Clarkdale, Arizona.
H. E. No. 025349	, dated June 25 , 19 14
Land <del>District</del> Office,	Phoenix, Arizona.

Survey executed by A. W. Hendrix,	Surveyor - Draftsman, Forest Service
	[Forest Service Title.]
Under special instructions dated	February 15 , 19 18
Survey commenced	April 10 , 19 19
Survey completed	April 13 , 19 19
Under Acts of	June 11, 1906 and October 1 , 1918.



OATH OF ASSISTANTS

We hereby certify that we assisted  
Draftsman, Forest Service,  
[Forest Service Title.]

A. W. Hendrix, Surveyor-  
in surveying all those

parts or portions of Homestead Entry Survey No. 545, 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 oath to Assistant; hence, it was taken by the Surveyor.

*Donald E. Harrison*  
Chairman

Subscribed and sworn to before me this 13th day of April, 19 19 .

*Aw Hendrix*  
Surveyor-Draftsman, Forest Service.

OATH OF SURVEYOR

I, A. W. Hendrix, Surveyor - Draftsman, Forest Service,  
[Forest Service Title.]

do solemnly swear that, in strict conformity with the special instructions of the United States Surveyor General for ARIZONA, dated February 15, 19 18, 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. 3-2321, dated February 28 19 13, for Patent, under the Act of June 11, 1906, the same to be known as Homestead Entry Survey No. 545, situated within the TUSAYAN National Forest, in unsurveyed Section 12, Township 17 N., Range 2 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.

*Aw Hendrix*  
Surveyor-Draftsman, Forest Service  
[Forest Service Title.]

Subscribed and sworn to before me this 21st day of

*Feb*, 1920

*my com. expires*

*Feb 11, 1923*

*Law. R. Holdeman*  
Notary Public



## TUSAYAN NATIONAL FOREST

STATE OF ARIZONA.

Chains

Applicant for listing, Rosendo Alvarez; Application No. 245, dated August 13, 1912; List No. 3-2321, dated February 28, 1913; H. E. No. 025349, made in the Phoenix Land Office on June 25, 1914, by Rosendo Alvarez.

Surveyed under special instructions from the Surveyor General of Arizona, dated February 15, 1918, and designated as Homestead Entry Survey No. 545.

Situated in what will be when surveyed Sec. 12, T. 17 N., R. 2 E., Gila and Salt River Base and Meridian, Tusayan National Forest, Arizona.

Surveyed under the acts of June 11, 1906 and October 1, 1918.

Survey commenced April 10, 1919, and executed with a W. and L.E. Gurley light mountain transit, equipped with a Burt 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 400 link steel tape. The slope angles were determined with a clinometer.

April 10, 1919.

At cor. No. 1 of this survey, hereinafter described, in Lat.  $34^{\circ} 51' 57''$  N., Long.  $112^{\circ} 05' 56''$  W., from Forest Service base map. At 6h. 14m. p.m., l.m.t., I observe Polaris at western elongation with telescope direct, reading an angle of  $61^{\circ} 40'$  from star to right to reference mark about 1 mile distant.

Azimuth of Polaris at elongation  $1^{\circ} 22' 24''$  W.

Bearing of reference mark N.  $60^{\circ} 17' 36''$  E.

At the same station at 6h. 17.0m. p.m., l.m.t. I again observe Polaris with telescope reversed, reading an angle of  $61^{\circ} 39' 30''$  from star to right to same refer-

HOMESTEAD ENTRY SURVEY NO. 545

TUSAYAN NATIONAL FOREST

STATE OF ARIZONA.

Chains

ence mark.

Azimuth of Polaris at elongation  $1^{\circ} 22' 24''$  W.

Bearing of reference mark N.  $60^{\circ} 17' 06''$  E.

The mean bearing of reference mark as determined from the two obsns. is N.  $60^{\circ} 17' 21''$  E. I accept bearing of reference mark as N.  $60^{\circ} 17' 30''$  E. and to the meridian thus determined all the courses of this survey are referred by sustained angulation.

April 10, 1919.

BOUNDARIES OF CLAIM

April 11, 1919.

Beginning at Cor. No. 1,

Identical with Cor. H/1 of the list survey and Forest Service monument, which is a sandstone 6 x 14 x 18 ins. set in mound of stone marked as described by the Forest Service. I destroy all trace of this list cor. and Forest Service monument.

Deposit a sandstone 2 x 2 x 3 ins. marked with a + 18 ins. in the ground, over which set a sandstone 5 x 10 x 24 ins. chiseled + for the point and 1 H E S 545 on NW. face; raise a mound of stone 3 ft. base, 2 ft. high NW. of cor.

No witnesses available. Pits impracticable.

W. C. to Secs. 7, 12, 13 and 18, T. 17 N., Rs.

2 and 3 E., a limestone 10 x 12 x 40 ins. above ground, marked and witnessed as described by the Surveyor General, bears S.  $50^{\circ} 32' 16''$  E. 12.82 chs. dist. by traverse which appears at the end of these notes.

Point for cor. to Secs. 7, 12, 13 and 18, which is 2.00 chs. south of witness cor. above described, bears S.  $44^{\circ} 17' 08''$  E. 14.18 chs. dist.

Lat.  $34^{\circ} 51' 57''$  N., Long.  $112^{\circ} 05' 56''$  W. from Forest Service base map.

## TUSAYAN NATIONAL FOREST

STATE OF ARIZONA.

Chains Mag. decl. at 8h. 00m. a.m. is  $14^{\circ} 30'$  E. Mean mag. decl.  $14^{\circ} 27'$  E.

Thence N.  $0^{\circ} 07'$  W.

Asc. 70 ft. to cor. over rolling rocky SW. slope, thru mesquit.

9.98 To Cor. No. 2,

Identical with Cor. H/2 of the list survey, which is a sandstone set in a mound of stone marked as described by the Forest Service. I destroy all trace of this list cor.

Deposit a sandstone 2 x 3 x 5 ins. marked with a + 20 ins. in the ground, over which set a sandstone 6 x 10 x 28 ins. chiseled + for the point and 2 H E S 545 on W. face; raise a mound of stone 2 ft. base, 1-1/2 ft. high W. of cor.,

No witnesses available. Pits impracticable.

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Thence N.  $45^{\circ} 00'$  W.

Asc. 75 ft. to cor. over rolling rocky SW. slope thru scattering brush.

9.50 Enter arroyo 3 chs. wide, 30 ft. deep, course SW.

12.50 Leave arroyo, course SW.

13.50 Enter arroyo 350 lks. wide 30 ft. deep, course SW.

17.00 Leave arroyo, course SW.

17.50 Enter arroyo, 100 lks. wide, 20 ft. deep, course SW.

18.50 Leave arroyo, course SW.

28.01 To Cor. No. 3,

Identical with Cor. H/3 of the list survey, which is a sandstone in mound of stone, marked as described by the Forest Service. I destroy all trace of this list cor.

Deposit a sandstone 1 x 4 x 5 ins. marked with a + 19 ins. in the ground, over which set a sandstone 7 x 14 x 26 ins. chiseled + for the point and 3 H E S 545 on SW. face; raise a mound of stone 2 ft. base,

## TUSAYAN NATIONAL FOREST

STATE OF ARIZONA.

## Chains

1-1/2 ft. high SW. of cor.

No witnesses available. Pits impracticable.

Thence West,

Desc. 100 ft. to cor. over rolling SW. slope, thru scattering brush.

.75 Begin steep descent.

3.50 Bottom of steep descent, thence desc. gradually over rolling SW. slope.

4.90 To Cor. No. 4,

Identical with Cor. H/4 of the list survey, which is a sandstone in mound of stone marked as described by the Forest Service. I destroy all trace of this list cor.

Deposit a sandstone 2 x 4 x 6 ins. marked with a + 20 ins. in the ground, over which set a sandstone 6 x 19 x 27 ins. chiseled + for the point and 4 H E S 545 on SW. face; raise a mound of stone 2 ft. base, 1-1/2 ft. high SW. of cor., whence:

A cottonwood 10 ins. dia. blazed and scribed

4 H E S + 545 B T, bears S. 30° 15' W.

210 lks. dist.

No other witnesses available. Pits impracticable.

Thence N. 45° 00' W.

Asc. 190 ft. to cor. over rolling SW. slope thru scattering brush.

.20 Wash 15 lks. wide, course S. 15° W.

2.31 Wire fence, bears N. and S.

15.78 Wire fence, bears E. and W.

19.80 Enter railroad draw, course S. 10° W.

24.80 Leave railroad draw. Asc. steep NE. slope.

28.02 To Cor. No. 5,

Identical with Cor. H/5 of the list survey, which is a sandstone boulder in place showing 14 x 16 x 36 ins.

## TUSAYAN NATIONAL FOREST

STATE OF ARIZONA.

Chains

above ground, marked as described by the Forest Service. I destroy all marks pertaining to the list cor. and chisel same boulder + for the point and 5 H E S 545 on top for cor. No. 5 of this survey; raise a mound of stone 2 ft. base, 1-1/2 ft. high SW. of cor., whence:

A juniper 8 ins. dia. bears N. 68° 22' W.

32 lks. dist.

A juniper 10 ins. dia., bears N. 42° 15' E.

90 lks. dist.

Each blazed and scribed 5 H E S + 545 B T.

April 11, 1919.

April 12, 1919.

Thence West,

Asc. 65 ft. to cor. over rolling NE. slope thru scattering brush and scrub timber.

2.00 Slope changes to S.

4.85 To Cor. No. 6,

Identical with Cor. H/6 of the list survey, which is a sandstone in mound of stone, marked as described by the Forest Service. I destroy all trace of this list cor.; deposit a sandstone 1 x 3 x 4 ins. marked with a + 18 ins. in the ground, over which set a sandstone 5 x 14 x 25 ins. chiseled + for the point and 6 H E S 545 on SE. face; raise a mound of stone 2 ft. base, 1-1/2 ft. high SE. of cor.

A juniper 10 ins. dia. bears S. 64° 07' W.,

91 lks. dist.

A juniper 7 ins. dia. bears N. 3° 37' E.

69 lks. dist.

Each blazed and scribed 6 H E S + 545 B T.

Thence South,

Desc. 110 ft. to cor. over rocky S. slope, through scattering brush and scrub timber.



Chains

4.96 To Cor. No. 7,  
 Identical with Cor. H/7 of the list survey, which is a limestone set in mound of stone, marked as described by the Forest Service. I destroy all trace of this list cor.  
 Deposit a limestone 3 x 3 x 5 ins. marked with a + 14 ins. in the ground, over which set a limestone 8 x 14 x 20 ins., no longer stone available, chiseled + for the point and 7 H E S 545 on SE. face; and raise a mound of stone 2 ft. base, 1-1/2 ft. high SE. of cor.  
 No witnesses available. Pits impracticable.

Thence N. 88° 49' W.

Desc. 50 ft. to cor. over rocky S. slope thru scattering brush and scrub timber.

3.60 Enter draw, course S.  
 4.80 Leave draw, course S.  
 10.00 Bottom of desc. Thence over bottom land thru dense brush.  
 12.20 Draw 30 lks. wide, course S.  
 19.82 To Cor. No. 8,  
 Identical with cor. H/8 of the list survey, which is a sandstone in mound of stone marked as described by the Forest Service. I destroy all trace of this list cor.  
 Deposit a sandstone 4 x 4 x 5 ins. marked with a + 14 ins. in the ground, over which set a sandstone 8 x 14 x 18 ins. (no longer stone available), chiseled + for the point and 8 H E S 545 on SE. face; raise a mound of stone 2 ft. base, 1-1/2 ft. high SE. of cor., whence:  
 A mesquit 7 ins. dia. bears N. 74° 45' W.  
 28 lks. dist.  
 A mesquit 6 ins. dia. bears N. 48° 35' W.  
 18 lks. dist.

## TUSAYAN NATIONAL FOREST

STATE OF ARIZONA.

Chains

Each blazed and scribed 8 H E S +545 B T

Thence S. 3° 00' W.

Descend 12 ft. over bottom land thru dense mesquit.

.10 Left bank Verde River.

.25 Irrigation ditch 8 lks. wide, course East.

2.40 Enter stream of Verde River, 1 ft. deep, course East.

3.35 Leave stream. Asc. 6 ft. to cor., over right bank of  
river.

3.65 To Cor. No. 9,

Identical with cor. H/9 of the list survey, which is a sandstone set in mound of stone, marked as described by the Forest Service. I destroy all trace of this list cor.

Deposit a sandstone 2 x 3 x 3 ins. marked with a + 18 ins. in the ground, over which set a sandstone 5 x 8 x 24 ins. chiseled + for the point and 9 H E S 545 on NE. face; raise a mound of stone 2 ft. base, 1-1/2 ft. high NE. of cor., whence:

An ash 18 ins. dia. bears S. 69° 45' W.

93 lks. dist.

A sycamore 24 ins. dia. bears S. 69° 50' E.

15 lks. dist.

Each blazed and scribed 9 H E S + 545 B T.

April 12, 1919.

April 13, 1919.

Thence S. 87° 46' E.

Along S. bank of river, thru scattering scrub timber.

Desc. 20 ft. to cor.

5.00 Right bank Verde River, water 6 ins. deep, course S. 80° E.

12.00 Leave water, course S. 80° E. Continue along bed of river.

20.00 Left bank Verde River, thence over bottom land, through dense willow brush.

23.00 Irrigation ditch 7 lks. wide, course S. 70° 00' E.

## Chains

25.67

To Cor. No. 10,

Identical with cor. H/10 of the list survey, which is a sandstone set in mound of stone marked as described by the Forest Service. I destroy all trace of this list cor.

Deposit a sandstone 4 x 5 x 5 ins. marked with a + 20 ins. in the ground, over which set a sandstone 10 x 10 x 30 ins. chiseled for the point and 10 H E S 545 on N. face; raise a mound of stone 2 ft. base, 1-1/2 ft. high N. of cor., whence:

A blackhaw 7 ins. dia. bears S. 51° 45' E.

116 lks. dist. blazed and scribed 10 H E S

+ 545 B T.

No other witnesses available. Pits impracticable.

Thence S. 44° 40' E.

Over bottom land, thru dense willow brush. Desc. 130 ft. to cor.

3.00 Irrigation ditch 10 lks. wide, course S. 60° E.

4.00 Left bank Verde River, course S. 70° E., thence over river bed.

10.00 Enter stream of Verde River, 18 ins. deep, course S. 70° E.

12.00 Leave stream and asc. right bank of Verde River, thence along right bank.

30.00 Right bank Verde River, thence over river bed.

35.00 Enter stream of Verde River 12 ins. deep, course S. 30° E.

42.00 Leave stream of Verde River, course S. 30° E., thence over river bed.

45.00 Left bank Verde River, thence over level bottom land, thru dense brush.

47.00 Fence bears N. 30° W. and S. 30° E. Enter cultivated land.

54.00 Fence bears N. and S. Leave cultivated land, thence over rolling land.

TUSAYAN NATIONAL FOREST

STATE OF ARIZONA.

Chains  
55.90

To Cor. No. 11,

Identical with cor. H/11 of the list survey, which is a sandstone set in mound of stone marked as described by the Forest Service. I destroy all trace of this list cor.

Deposit a sandstone 2 x 3 x 4 ins. marked with a + 14 ins. in the ground, over which set a sandstone 8 x 12 x 18 ins. (no longer stone available), chiseled + for the point and 11 H E S 545 on N. face; raise a mound of stone 2 ft. base, 1-1/2 ft. high N. of cor., whence:

A sycamore 14 ins. dia. bears N. 72° 30' W.

164 lks. dist.

A willow 24 ins. dia. bears S. 42° 45' W.

121 lks. dist.

Each blazed and scribed 11 H E S + 545 B T.

Thence S. 80° 54' E.

Ascend 30 ft. to cor. over rolling land, through dense mesquit.

1.30 Dim road, bears SE. and NW.

4.56 To Cor. No. 1 and place of beginning.

AREA

Area of claim - - - - - 60.56 Acres

IMPROVEMENTS

The improvements made on this claim and belonging to the claimant herein consist of the following:

A pole barn 20 x 40 ft. the long sides extending N. and S., the NW. cor. of which bears S. 49° E. 82 lks. from cor. No. 4.

Value - - \$100.00

A log and adobe house 10 x 12 ft. the long sides extending N. and S., the SW. cor. of which bears S. 54° 30' E. 300 lks. from cor. No. 4.

HOMESTEAD ENTRY SURVEY NO. 545

TUSAYAN NATIONAL FOREST

STATE OF ARIZONA.

Chains

Value - - - - - \$100.00

A log and adobe house 14 x 45 ft. the long sides extending E. and W., the SW. cor. of which bears S. 51° 10' E. 365 lks. from cor. No. 4.

Value - - - - - \$250.00

Irrigation ditch about 70 chs. long.

Value - - - - - \$300.00

Approximately 1-1/2 mile of wire fencing.

Value - - - - - \$250.00

DESCRIPTION

The claim lies partly in the Verde River bottom and bed and partly on rocky south slope which is cut by deep arroyos. The soil in the bottom land is a rich alluvial deposit and very fertile, raising good crops when irrigated, for which the Verde River furnishes abundant water. Approximately 20 acres answer to this description, of which 12 are in cultivation. The uncultivated portion is covered with dense mesquit brush. Approximately 15 acres of the claim lie in the bed of the river proper and are unfit for any purpose; the remainder lie on rocky south slope and are good for pasture only.

Water for domestic purposes is obtained from the irrigation ditch.

There is no timber of commercial value on the claim.

I saw no indication of mineral on the claim.

CONFLICTS AND ADJOINING CLAIMS

There are no conflicts or adjoining claims. This claim lies along the Verde River and is within the Power Site Withdrawal of Feb. 19, 1917, under the Act of June 20, 1910, which includes all lands in the east half of T. 17 N., R. 2 E., within 3 miles of the Verde River. As the date of the entry, however, is prior to the Power Site Withdrawal it is assumed there will be no complications by reason of the said withdrawal.

TUSAYAN NATIONAL FOREST

STATE OF ARIZONA.

Chains

Clarkdale, Arizona, the nearest postoffice and trading point, is about 15 miles in a southeasterly direction.

TRAVERSES

Course	Dist.	N.	S.	E.	W.
N. 0°07' W.	9.98	9.98			.02
N. 45°00' W.	28.01	19.81			19.81
West	4.90				4.90
N. 45° 00' W.	28.02	19.81			19.81
West	4.85				4.85
South	4.96		4.96		
N. 88°49' W.	19.82	.41			19.82
S. 3° 00' W.	3.65		3.64		.19
S. 87°46' E.	25.67		1.00	25.65	
S. 44°40' E.	55.90		39.76	39.30	
S. 80°54' E.	4.56		.72	4.50	
	<u>190.32</u>	<u>50.01</u>	<u>50.08</u>	<u>69.45</u>	<u>69.40</u>
Error in Lat. and Dep.			<u>50.01</u>	<u>69.40</u>	
			.07	.05	

Closing error 1/2212

TIE FROM L H E S 545 TO W.C. OF SEC. 7, 12, 13 and 18,  
T. 17 N., R. 2 and 3 E.

S. 52°04' E.	11.52		7.08	9.09
S. 37°12' E.	1.34		1.07	.81
			<u>8.15</u>	<u>9.90</u>

Resultant course S. 50° 32' 16" E. 12.82 chs.

TIE FROM L H E S 545 TO POINT FOR COR. OF SECS. 7, 12, 13 & 18

S. 52°04' E.	11.52		7.08	9.09
S. 37°12' E.	1.34		1.07	.81
South	2.00		2.00	
			<u>10.15</u>	<u>9.90</u>

Resultant course S. 44° 17' 08" E., 14.18 chs.

Survey completed April 13, 1919.

*W. J. Simpson*  
Surveyor-Draftsman,  
Forest Service.

Note: It was not the intention of the Forest Service that the Verde River form a meander boundary of this survey.

- 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. 545, STATE OF TUSAYAN FOREST-ARIZONA

S-2340

CORNERS.	BEARING.	DISTANCE.	LATITUDES.		DEPARTURES.		DOUBLE M. D.	N. AREAS.		S. AREAS.	
			NORTH.	SOUTH.	EAST.	WEST.					
1-2	N. 0°07' W.	9.98 ✓	9 98			02	138 82	1385	42		
2-3	N.45°00' W.	28.01 ✓	19 81			19 81	118 98	2358	18		
3-4	West	4.90 ✓				4 90	94 26				
4-5	N.45°00' W.	28.02 ✓	19 81			19 81	69 54	1378	28		
5-6	West	4.85 ✓				4 85	44 87				
6-7	South	4.96 ✓		4 96			40 02			198 50	
7-8	N.88°49' W.	19.82 ✓	41			19 82	20 20	8	48		
8-9	S. 3°00' W.	3.65 ✓		3 64		19	19			69	
9-10	S.87°46' E.	25.67 ✓		1 00	25 65		25 64			25 38	
10-11	S.44°40' E.	55.90 ✓		39 76	39 30		90 56			3597 95	
11-1	S.80°54' E.	4.56 ✓		72	4 50		134 34			96 72	
		190.32 ✓	50 01	50 08	69 45	69 40		5130	36	3919	24
			50 01	50 01	69 40	69 40		3919	24		
	Error in Lat. and Dep.			07	05			1211	12		
	Closing error 1/2212							60	56		

29

APPROVAL

Office of the United States Surveyor General,

Phoenix, Arizona, July 7, 1920

The foregoing field notes of Homestead Entry Survey No.

545

executed by *A. H. Hendrix, Surveyor-Draftsman* [Forest Service Title]  
under his special instructions, dated *Feb. 15*, 1918, having  
been critically examined, and the necessary corrections and explanations  
made, the said field notes, and the surveys they describe, are hereby  
approved.

*Frank P. Trott*  
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.