U. S. DEPARTMENT OF AGRICULTURE
FOREST SERVICE

FIELD NOTES

OF

HOMESTEAD ENTRY SURVEY NO. 545

SITUATED IN THE
TUCAYAN 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, 1912
List No. 3-2321, dated February 28, 1913

Applicant for survey
Rosendo Alvarez,
Residence
Clarkdale, Arizona.
H. E. No. 025349, dated June 25, 1914

Land Office, Phoenix, Arizona.

Survey executed by A. W. Hendrix, Surveyor - Draftsman, Forest Service
Under special instructions dated February 15, 1918
Survey commenced April 10, 1919
Survey completed April 13, 1919

OATH OF ASSISTANTS

We hereby certify that we assisted
Draftsman, Forest Service,
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.

[Signature]
Chairman

Subscribed and sworn to before me this 13th day of April, 1919.

[Signature]

Surveyor-Draftsman, Forest Service.

OATH OF SURVEYOR

I, A. W. Hendrix, Surveyor - Draftsman, Forest Service, do solemnly swear that, in strict conformity with the special instructions of the United States Surveyor General for ARIZONA, dated February 15, 1918, 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 26, 1913, 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.

[Signature]

Surveyor-Draftsman, Forest Service.

Subscribed and sworn to before me this Day of __________ 1920.

[Signature]

[Seal]
CHAINS

Applicant for listing, Rosendo Alvarez; Application No. 245, dated August 12, 1912; List No. 2-2321, 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, 1913, 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, 1916.

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° 51' 57" N., Long. 112° 05' 56" W., from Forest Service base map. At 6th. 14m. p.m., 1.m.t., I observe Polaris at western elongation with telescope direct, reading an angle of 61° 40' from star to right to reference mark about 1 mile distant.

Azimuth of Polaris at elongation 1° 22' 24" W.

Bearing of reference mark N. 60° 17' 36" E.

At the same station at 6th. 17.0m. p.m., 1.m.t. I again observe Polaris with telescope reversed, reading an angle of 61° 59' 30" from star to right to same refer-
Chains

ence mark.

Azimuth of Polaris at elongation 1° 22' 24" W.

Bearing of reference mark N. 60° 17' 06" E.

The mean bearing of reference mark as determined from
the two obsns. is N. 60° 17' 21" E. I accept bearing
of reference mark as N. 60° 17' 20" E. and to the
meridian thus determined all the courses of this sur-
vey 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 L H E S 545 on
NW. face; raise a mound of stone 3 ft. base, 2 ft.
high NW. of cor.

No witnesses available. Fits impracticable.

W. C. to Secs. 7, 12, 13 and 19, T. 17 N., Rg.
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° 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 19, which
is 2.00 chs. south of witness cor. above de-
scribed, bears S. 44° 17' 08" E. 14.18 chs.
dist.

Lat. 34° 51' 57" N., Long. 112° 05' 56" W. from Forest
Service base map.
Chains | Mag. decl. at 8h. 00m. A.M. is 14° 30' E. Mean mag. decl. 14° 27' E.
--- | ---
Thence N. 0° 07' W.
Asc. 70 ft. to cor. over rolling rocky SW. slope, thru mesquite.
9.98 | To Cor. No. 2,
Identical with Cor. N/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 26 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. Fits impracticable.

Thence N. 45° 00' W.
Asc. 75 ft. to cor. over rolling rocky SW. slope thru scattering brush.
9.50 | Enter arroyo 3 chs. wide, 20 ft. deep, course SW.
12.50 | Leave arroyo, course SW.
12.50 | Enter arroyo 250 lbs. wide 30 ft. deep, course SW.
17.00 | Leave arroyo, course SW.
17.50 | Enter arroyo, 100 lbs. wide, 20 ft. deep, course SW.
18.50 | Leave arroyo, course SW.
28.01 | To Cor. No. 3,
Identical with Cor. N/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,
Chains

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

No witnesses available. Fits 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. Fits 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.
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 6 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. 66 ft. to cor. over rolling NE. slope thru scatter-
ing 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 the list
cor.; deposit a sandstone 1 x 3 x 4 ins. marked with
a + 10 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.
<table>
<thead>
<tr>
<th>Chains</th>
<th>4.96</th>
<th>To Cor. No. 7,</th>
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</thead>
<tbody>
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<td>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.</td>
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<tr>
<td></td>
<td></td>
<td>Deposit a limestone 2 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.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>No witnesses available. Fits impracticable.</td>
</tr>
</tbody>
</table>

Thence N. 86° 42' W.

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

5.60 Enter draw, course S.

4.60 Leave draw, course S.

10.00 Bottom of desc. Thence over bottom land thru dense brush.

12.20 Draw 20 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. 46° 35' W.

18 lks. dist.
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 Eas.

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

3.36 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 + 16 ins. in the ground, over which set a sandstone 5 x 3 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'ish 18 ins. dia. bears S. 68° 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.

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.
Homestead Entry Survey No. 545

Tusayan National Forest

State of Arizona

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. 61° 45' E.

116 lbs. dist. blazed and scribed 10 H E S + 545 B T.

No other witnesses available. Fits impracticable.

Thence S. 44° 40' E.

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

3.00 Irrigation ditch 10 lbs. wide, course S. 80° 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 esc. 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.
<table>
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<th>Chains 55.90</th>
<th>To Cor. No. 11,</th>
</tr>
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<tbody>
<tr>
<td>Identical with cor. E/11 of the 1st 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.</td>
<td></td>
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<tr>
<td>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:</td>
<td></td>
</tr>
<tr>
<td>A sycamore 14 ins. dia. bears N. 72° 30' W.</td>
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<tr>
<td>164 lbs. dist.</td>
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<tr>
<td>A willow 24 ins. dia. bears S. 42° 45' W.</td>
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<tr>
<td>121 lbs. dist.</td>
<td></td>
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<tr>
<td>Each blazed and scribed 11 H E S + 545 B T.</td>
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</tr>
</tbody>
</table>

| 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 an adobe house 10 x 12 ft. the long sides extending N. and S., the SW. cor. of which bears S. 54° 20' E. 300 lks. from cor. No. 4.
Chains

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. 363 lks. from cor. No. 4.

Value -- -- - $100.00

Irrigation ditch about 70 chs. long.

Value -- -- - $250.00

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 5 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.
Chains

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

<table>
<thead>
<tr>
<th>COURSE</th>
<th>DIST.</th>
<th>H.</th>
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<th>E.</th>
<th>W.</th>
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</table>

TIE FROM 1 H E S 545 TO W.C. OF SEC. 7,12,13 and 16, T. 17 N., R. Z and 5 E.

| S.58°04' E. | 11.52 | 7.08 | 9.09 |
| S.37°12' E. | 1.54 | 1.07 | .81 |
| 3.15 | 9.90 |

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

TIE FROM 1 H E S 545 TO POINT FOR CR. OF SECS. 7,12,13&16

| S.58°04' E. | 11.52 | 7.08 | 9.09 |
| S.37°12' E. | 1.24 | 1.07 | .81 |
| South | 2.00 | 2.00 |
| 10.15 | 9.90 |

Resultant course S. 44° 17' 06" E., 14.18 chs.

Survey completed April 12, 1919.

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.
### Tabling and Calculations of Homestead Entry Survey No. 545, State of Arizona

<table>
<thead>
<tr>
<th>CORNERS</th>
<th>BEARING</th>
<th>DISTANCE</th>
<th>LATITUDES</th>
<th>DEPARTURES</th>
<th>DOUBLE M. D.</th>
<th>N. AREAS</th>
<th>S. AREAS</th>
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<td>South</td>
<td>East</td>
<td>West</td>
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<td>56.90</td>
<td>56.90</td>
<td>56.90</td>
<td>56.90</td>
<td>3697.95</td>
</tr>
<tr>
<td>11-1</td>
<td>S. 80°54' E.</td>
<td>4.65</td>
<td>4.65</td>
<td>4.65</td>
<td>154.34</td>
<td>96.72</td>
<td></td>
</tr>
</tbody>
</table>

Error in Lat. and Dep.: 07 05
Closing error 1/2212

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**Note:**
- **Directions:**
  1. Carry out calculations to two decimals only.
  2. In balancing Latitudes and Departures do not obliterate or change the original figures. Do not change the footing of the original figures, but put below them the corrected footing in red ink. The correction for balancing fallings should be proportional to the lengths of the lines.
  3. In calculations of fallings take nearest link. In calculations of N. and S. bear 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.
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

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 O. Titus
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.