U. S. DEPARTMENT OF AGRICULTURE
FOREST SERVICE

FIELD NOTES

OF

HOMESTEAD ENTRY

SURVEY NO. 564

SITUATED IN THE

TONTO NATIONAL FOREST

ADMINISTRATIVE DISTRICT NO. 3

In Section 6, unsurveyed, Township 8 N., Range 13 E.
In Section 7, unsurveyed, Township 8 N., Range 13 E.

of the

GILA AND SALT RIVER BASE AND MERIDIAN.

State of

ARIZONA

Applicant for listing
G. M. Burleson,

Residence
Young, Arizona.

Application No. 407
dated June 2, 1913

List No. 3-3050
dated January 23, 1914

Applicant for survey

Residence

H. M. No. dated 10

Land Office

Survey executed by Frank D. Yost, Surveyor - Forest Service,
[Forest Service Seal]

Under special instructions dated February 15, 1918

Survey commenced
June 21, 1918

Survey completed
June 21, 1918

We hereby certify that we assisted Frank D. Yost,
Surveyor - Forest Service,
(Your Service Title)
parts or portions of Homestead Entry Survey No. 564, 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.

Subscribed and sworn to before me this 6th day of August, 1919.

[Signature]
Surveyor - Forest Service,
(Your Service Title)

OATH OF SURVEYOR

I, Frank D. Yost, Surveyor - Forest Service, (Your Service Title),
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. E-30520, dated January 26, 1914, and also a tract of unlisted land upon the application of G. H. Burleson,

Application, No. 407, dated June 2, 1913, for Listing and Patent, under the Act of June 11, 1906, the same to be known as Homestead Entry Survey No. 564, situated within the Tonto National Forest, in unSurveyed Section 6, Township 6 N., Range 13 E., and unSurveyed Section 7, Township 6 N., Range 13 E., 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

[Signature]
Surveyor - Forest Service,
(Your Service Title)

Subscribed and sworn to before me this fifth day of November, 1919.

[Signature]
Notary Public,
(Your Title)

My commission expires March 17, 1921.
Chains Applicant for listing, G. M. Burlson; Application No. 407, dated June 2, 1913; List No. 3-3050, dated January 23, 1914;
Also a tract of adjoining unlisted land was included in this survey; the land is agricultural in character, and was desired by entryman.
This is therefore a composite survey.
The changes made in this survey are in accordance with the desires of the claimant and meet with the approval of the Forest Service. Copy of a signed statement from Mr. Burlson agreeing to the changes is attached at the end of these notes.
Surveyed under special instructions from the Surveyor General for Arizona, dated February 15, 1918, and designated as Homestead Entry Survey No. 564.
Situated in what will probably be when surveyed Secs. 6 and 7, T. 8 N., R. 13 E., Gila and Salt River Base and Meridian, Tonto National Forest, Arizona.
Surveyed under the Acts of June 11, 1906 and October 1, 1918.

Survey commenced June 21, 1919, and executed with a Buff and Buff transit No. 10019, 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.
Chains June 21, 1919.

At Cor. No. 1 of this survey hereinafter described, I observe the altitude of the sun for azimuth. The reading on the reference object was set at zero and the sun was observed in the upper right and lower left quadrants of the field. My watch is set for local mean time. Lat. 34° 03' 33" N., Long. 111° 08' 42" W. from special instructions of the Surveyor General and later verified.

Telescope Pos. l.m.t. Horizontal Angle Vertical Angle
Direct + 7h 26m 10s 3° 09' 00" 30° 11' 03"
Reversed + 7h 26m 50s 2° 37' 00" 29° 47' 53"

Means 7h 26m 30s 2° 53' 00" 29° 59' 30"

Bearing of reference mark is N. 77° 39' 34" E.

At the same Station, I again observe the altitude of the sun for azimuth. The reading on the reference object was set at zero and the sun was observed in the upper left and lower right quadrants.

Telescope Pos. l.m.t. Horizontal Angle Vertical Angle
Direct + 7h 26m 55s 3° 21' 00" 20° 32' 46"
Reversed + 7h 27m 30s 2° 48' 30" 30° 09' 14"

Means 7h 27m 15s 3° 04' 45" 30° 21' 00"

Bearing of reference mark is N. 77° 39' 06" E. Mean bearing of reference mark as determined from the two obsns. is N. 77° 39' 06" E. I accept bearing of reference mark as N. 77° 39' E. and to the corresponding meridian all the courses of this survey were referred by sustained angulation.
BOUNDARIES OF CLAIM

June 21, 1919.

Beginning at Cor. No. 1.

Point for cor. falls on top of an embedded granite boulder showing 36 x 30 x 24 ins. above ground. I chisel boulder + end 1 H E S 554 on top, for Cor. No. 1 of this survey; raise a mound of stone 2 ft. base, 2 ft. high E. of cor., whence:

An oak 24 ins. dia., brs. S. 0° 17' W.,
22 lks. dist.

An oak 8 ins. dia., brs. W. 89° 37' E.,
12 lks. dist.

Each blazed and scribed 1 H E S 554 + B T

Cor. to Secs. 1, 6, 7 and 12, T. 8 N., R. 12 and 13 E., a sandstone 24 x 10 x 10 ins. above ground, marked and witnessed as described by the Surveyor General, bears S. 65° 05' W., 20.05 chs. dist. by direct measurement.

Cor. H-3 of the list survey, which is a sandstone 14 x 10 x 6 ins. above ground, marked and witnessed as described by the Forest Service, bears S. 86° 54' W., 4.02 chs. dist.

I destroy all trace of this list cor.

Lat. 34° 05' 33" N., Long. 111° 03' 42" W., from special instructions from the Surveyor General and later verified.

Mag. decl. at 8 a.m. is 14° 30' E., Mean
Mag. decl. is 14° 28' E.

Thence N. 20° 20' E.

Along base of cliff, 60 ft. high, extending S. 20° 17' W. and N. 20° 17' E. Open bottom land to right.
Springs Creek, 75 lvs. wide, banks 5 ft. high, running water 12 lvs. wide, 6 ins. deep, course N. 35° W.
Ascend 20 ft. over SW. slope.

To Cor. No. 2.

Point for cor. falls on an embedded sandstone boulder showing 48 x 24 x 8 ins. above ground. I chisel same boulder + and 2 H E S 564 on top for Cor. No. 2 of this survey, and raise a mound of stone 3 ft. base, 2 ft. high S. of cor., whence:

An oak 24 ins. dia., brs. S. 60° 41' E., 8 lvs. dist.

An oak 20 ins. dia., brs. N. 19° 51' E., 104 lvs. dist.

Each blazed and scribed 2 H E S 564 + B T

Cor. H-4 of the list survey, which is a sandstone 10 x 6 x 4 ins. above ground, marked and witnessed as described by the Forest Service, brs. N. 16° 13' W., 6.69 chs. dist. I destroy all trace of this list cor.

Thence S. 28° 16' E.

Along SW. slope, thru timber and heavy underbrush.

To Cor. No. C.

Identical with Cor. H-1 of the list survey, which is a sandstone 8 x 8 x 4 ins. above ground, marked and witnessed as described by the Forest Service. I destroy all trace of this list cor.

Deposit a sandstone 4 x 3 x 2 ins. marked with a + 24 ins. in the ground, over which set an iron post 2 ins. dia., 36 ins. long, with brass cap mkd. 1919 on S. rim, and 3 H E S 564 in SW. semi-circle; raise a mound of stone 3 ft. base, 2 ft. high, SW. of cor., whence:
HOMESTEAD ENTRY SURVEY NO. 554
TENTO NATIONAL FOREST
STATE OF ARIZONA

Chains show: An oak 16 ins. dia., brs. S. 5° 17' W.,
11 lks. dist.
An oak 14 ins. dia., brs. S. 80° 05' E.,
59 lks. dist.
Each blazed and scribed 3 H E S 554 + B T

Thence S. 25° 48' E.
Over unlisted land, along SW. slope; thru timber and heavy underbrush.
8.18
To Cor. No. 4.
Deposit a sandstone 3 x 2 x 1 ins. marked with a + 24 ins. in the ground, over which set an iron post 2 ins. dia., 36 ins. long, with brass cap marked 1919 on S. rim and 4 H E S 554 in NW. sector; raise a mound of stone 3 ft. base, 2 ft. high NW. of cor., whence:
A boxelder 30 ins. dia., brs. S. 60° 23' W.,
11 lks. dist.
An oak 8 ins. dia., brs. E. 49° 59' E.,
98 lks. dist.
Each blazed and scribed 4 H E S 554 + B T

Thence N. 72° 54' W.
Over unlisted land, Descend SW. slope 20 ft., thru heavy underbrush.
1.06 Right bank Spring Creek, 70 lks. wide, banks 3 ft. high, From S. 45° E., course N. 65° W. Continue up bed of Spring Creek.
4.96 Middle Spring Creek, 70 lks. wide, banks 3 ft. high, running water 12 lks. wide, 6 ins. deep, course N. 55° W.
6.21 Left bank Spring Creek, 70 lks. wide, banks 3 ft. high, course N. 30° W. Asc. 20 ft., along base of NE. slope, thru heavy brush.
13.71 To Cor. No. 5.
Chains

Identical with Cor. H-2 of the list survey, which is a sandstone 10 x 8 x 4 ins. above ground, marked and witnessed as described by the Forest Service. I destroy all trace of this list cor.

Deposit a granite stone 3 x 3 x 3 ins. marked with a +14 ins. in the ground, over which set a granite stone 24 x 24 x 8 ins. chiseled + for the point and S H E S 564 on NE. face; raise a mound of stone 3 ft. base, 2 ft. high NE. of cor., whence:

An oak 16 ins. dia., brs. N. 47° 23' E., 90 lks. dist.

An oak 16 ins. dia., brs. S. 26° 50' E., 41 lks. dist.

Each blazed and scribed S H E S 564 + B T

Thence N. 19° 35' W.

Over listed land, along foot of NE. slope, thru timber and heavy brush.

15.97

To Cor. No. 1, the place of beginning.

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AREA

Listed Area -- -- -- -- -- -- -- -- -- -- 17.30 Acres,

Unlisted Area -- -- -- -- -- -- -- -- -- -- 4.10 Acres,

Total Area -- -- -- -- -- -- -- -- -- -- 21.40 Acres.

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IMPROVEMENTS

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

A log house, 15 x 22 ft., the long sides extending E. and W., the SW. cor. of which bears N. 52° 02' E., 3.79 chs. dist. from Cor. No. 5.
Value $300.00

A log store house 15 x 22 ft., the long sides extending E. and W., the SE. cor. of which bears N. 48° 23' E., 3.52 chs. dist. from Cor. No. 5,

Value $150.00

A log barn 18 x 24 ft., the long sides extending N. and S., the SW. cor. of which bears N. 6° 43' W., 5.11 chs. dist. from Cor. No. 5.

Value $100.00

A pole corral 50 x 100 ft., the long sides extending N. 21° W. and S. 21° E., the SW. cor. of which bears N. 4° 05' E., 5.81 chs. dist. from Cor. No. 5.

Value $200.00

Approximately 1 mile pole and brush fence, with two strands barbed wire on top,

Value $100.00

A well 8 ft. dia., by 10 ft. deep, the center of which bears N. 47° 45' E., 5.55 chs. dist. from Cor. No. 5.

Value $50.00

DESCRIPTION

The claim consists mainly of level bottom land along Spring Creek which flows thru from SE. to NW. The soil is a sandy loam from two to four ft. deep, and very fertile, and will produce good crops of hay, grain and vegetables.

Water for domestic use is obtained from the well on the claim.

There is no timber of commercial value on the claim.
Chains: I saw no indications of mineral on the claim.

**CONFLICTS AND ADJOINING CLAIMS**

There are no conflicts or adjoining claims.

Young, Arizona, the nearest settlement and Postoffice is about 7 miles in a northeasterly direction.

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**TRAVERSES**

<table>
<thead>
<tr>
<th>Course</th>
<th>Dist.</th>
<th>N.</th>
<th>S.</th>
<th>E.</th>
<th>W.</th>
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<td>N. 20° 20' E.</td>
<td>10.18</td>
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<td>S. 28° 15' E.</td>
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<td>21.22</td>
<td>11.43</td>
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<td>S. 25° 45' E.</td>
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<td>3.55</td>
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<td>N. 72° 54' W.</td>
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<td>4.03</td>
<td>13.10</td>
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<td>N. 19° 35' E.</td>
<td>23.85</td>
<td>15.06</td>
<td>8.35</td>
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Error in Lat. and Dep. | .05 |

Closing Error, 1:765

Survey completed June 21, 1919.

Surveyor - Forest Service.
HOMESTEAD ENTRY SURVEY NO. 564
T O N T O  N A T I O N A L  F O R E S T
S T A T E  O F  A R I Z O N A

<table>
<thead>
<tr>
<th>Chains</th>
<th>Direct Solar Oben. at Cor. No. 1, June 21, 1919</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lat.</td>
<td>34° 03' 33&quot; N., Long. 111° 03' 42&quot; W., from spe-</td>
</tr>
<tr>
<td>cial instructions from the Surveyor General and later</td>
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<tr>
<td>verified. Elevation approximately 5200 feet.</td>
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<tr>
<td>Telescope Pos.</td>
<td>1.m.t. Horizontal Vertical</td>
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<tr>
<td>sun a.m.</td>
<td>Angle</td>
</tr>
<tr>
<td>Direct</td>
<td>4° 7h 25m 10s. 2° 09' 00&quot; 30° 11' 03&quot;</td>
</tr>
<tr>
<td>Reversed</td>
<td>2° 37' 00&quot; 29° 47' 58&quot;</td>
</tr>
<tr>
<td>Means</td>
<td>7h 25m 30s 2° 53' 00&quot; 29° 59' 20&quot;</td>
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<tr>
<td>Corr. for Refr.</td>
<td>1' 17&quot;</td>
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</table>

Decl. N. 23° 26' 46"

\[
\cos Q = \frac{\sin 23° 26' 46"}{\cos 34° 03' 33" \times \cos 29° 58' 13"}
\]

\[
\sin 23° 26' 46" = 0.3997591 \times 0.46715 \times 0.857608
\]

\[
\text{tan.} 34° 03' 33" = 0.8299544
\]

\[
\text{tan.} 29° 58' 13" = 0.7809189
\]

\[
\cos Q = 0.16458
\]

Bearing of reference mark is N. 77° 38' 38" E.
Direct Solar at Cor. No. 1, June 21, 1919.
Lat. 34° 03' 33" N., Long. 111° 03' 42" W.

Telescope Pos. l.m.t. Horizontal Vertical Angle
Sun 7h 26m 55s 3° 21' 00" 20° 32' 46"

Reversed 7h 27m 30s 2° 46' 30" 30° 09' 14"

Means 7h 27m 12s 3° 04' 45" 30° 21' 00"

Corr. for refr. 1' 17"

Decl. N. 23° 26' 46"

\[
\cos Q = \sin 23° 26' 46" - \tan 34° 03' 33"
\]
\[
\cos 23° 26' 46" \times 30° 19' 43"
\]

\[
\tan 20° 19' 43" = 9.5997591
\]
\[
\sin 23° 26' 46" = 0.3997591
\]
\[
\cos 34° 03' 33" = 0.9182713
\]
\[
\tan 20° 19' 43" = 9.7454048 = \log 0.55642
\]
\[
\tan 34° 03' 33" = 0.9299544
\]
\[
\tan 30° 19' 43" = 9.7671729
\]
\[
9.5997591 = \log 0.39948
\]

\[
\cos Q = 0.96094
\]
\[
Q = 80° 44' 19"
\]

Bearing of reference mark, N. 77° 39' 34" E.
June 21, 1919.

I, G. M. Burleson, hereby agree to the survey of my homestead, number 564, as made on 21st day of June, 1919, by Forest Service Surveyor, Frank D. Yost.

and further agree that when notified that the survey has been approved and before attempting to make final proof on my entry, I will apply for amendment of the same to conform with said survey.

The changes made by the surveyor are excluding listed land of no value for farming and including unlisted land suitable for farming, and to include improvements erected by me.

H. R. Pitts, Witness.  
(Sgd.) G. M. Burleson, Claimant,
TABLE AND CALCULATIONS OF HOMESTEAD ENTRY SURVEY NO. 564, 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></td>
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<td>North</td>
<td>South</td>
<td>East</td>
<td>West</td>
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<td>1 - 2</td>
<td>N. 20-20 E.</td>
<td>10.18</td>
<td>9.55</td>
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<td>3.53</td>
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<td>2 - 3</td>
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<td>18.47</td>
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<td>3 - 4</td>
<td>S. 25-48 E.</td>
<td>8.15</td>
<td>7.36</td>
<td>3.56</td>
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<td>33.43</td>
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<td>4 - 5</td>
<td>N. 72-54 W.</td>
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<td>13.10</td>
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<td>5 - 1</td>
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<td>15.05</td>
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<td>72.14</td>
<td>28.60</td>
<td>18.45</td>
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<td></td>
<td>Error in Lat. and Dep.</td>
<td>0.05</td>
<td>0.08</td>
<td>20.427</td>
<td>21.40 Acres</td>
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Closing Error, 1:765

Traverse of Unlisted Area

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<th>North</th>
<th>South</th>
<th>East</th>
<th>West</th>
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<td>3 - 4</td>
<td>S. 25-48 E.</td>
<td>8.15</td>
<td>7.36</td>
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<td>31.99</td>
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<td>13.10</td>
<td>13.10</td>
<td>84.66</td>
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20/82.07 Acres

Total

I. E. 4.10 Acres
APPROVAL

Office of the United States Surveyor General,

Phoenix, Arizona, May 22, 1920

The foregoing field notes of Homestead Entry Survey No.

564

executed by Frank D. Yoak, Surveyor

under his special instructions, dated February 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.

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.