U. S. DEPARTMENT OF AGRICULTURE
FOREST SERVICE

FIELD NOTES

HOMESTEAD ENTRY SURVEY NO. 597

SITUATED IN THE APACHE NATIONAL FOREST

ADMINISTRATIVE DISTRICT No. 3

In Section 15, un-surveyed, Township 4 N., Range 30 E.
In Section 22, un-surveyed, Township 4 N., Range 30 E.

of the GILA AND SALT RIVER BASE AND Meridian.
State of ARIZONA

Applicant for listing Joe Brooks
Residence Espero, Arizona
Application No. 507, dated November 8, 1913
List No. 3-3146, dated May 4, 1914

Applicant for survey Norman A. Josh
Residence Espero, Arizona
M. E. No. 031355, dated February 14, 1917
Land Office Phoenix, Arizona

Survey executed by Thomas F. Myers, Surveyor - Forest Service
Under special instructions dated May 14, 1919
Survey commenced June 12, 1921
Survey completed June 15, 1921
OATH OF ASSISTANTS

We hereby certify that we assisted Thomas F. Myers, Surveyor - Forest Service in surveying all those parts or portions of Homestead Entry Survey No. 597, 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 13th day of June, 1921.

[Signature]

Surveyor - Forest Service.

OATH OF SURVEYOR

I, Thomas F. Myers, Surveyor - Forest Service, do solemnly swear that, in strict conformity with the special instructions of the United States Surveyor General for ARIZONA, dated May 14, 1919, 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. 3-3146, dated May 4, 1914, and a tract of land upon the application of Joe Brooks.

Application No. 307, dated November 8, 1913, for listing and patent, under the Act of June 11, 1906, the same to be known as Homestead Entry Survey No. 597, situated within the APACHE National Forest, in

un-surveyed Section 15, Township 4 N., Range 30 E., and un-surveyed Section 22, Township 4 N., Range 30 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.

Subscribed and sworn to before me this 6th day of April, 1922.

[Signature]

Notary

By order, expires April 12, 1925.
Chains Applicant for listing, Joe Brooks; Application No. 307, dated November 8, 1912; List No. 5-5146, dated May 4, 1914; H. E. 031365, made in the Phoenix Land Office on February 14, 1917, by Norman A. Joch. Also a tract of unlisted land adjoining claimant's entry was included in this survey. The land is agricultural in character, was desired by entryman and will be listed as a basis for amendment of his entry No. 031365. This is therefore a composite survey. Surveyed under special instructions from the Surveyor General for Arizona, dated May 14, 1919, and designated as Homestead Entry Survey No. 597. Situated in what will probably be when surveyed Secs. 15 and 22, T. 4 N., R. 30 E., Gila and Salt River Base and Meridian, Apache National Forest, Arizona. Surveyed under the Acts of June 11, 1906, and May 31, 1921.

Survey commenced June 12, 1921, and executed with a Buff and Buff transit No. 10520, equipped with Smith solar attachment. I tested the adjustments of the transit and made 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.

The courses of this survey were deflected from the meridian established by Polaris obsn. on June 8, 1921, near Cor. No. 1 of HES 592. All lines were carried forward by sustained angulation and checked with the
Chains

Smith solar attachment, which I carefully check on the above meridian as follows:

June 12, 1921.

At the Azimuth station near Cor. No. 1 of HES 592 at 7h Com a.m. 1.m.t., I set off 33°42' on lat. arc and 22°10' on decl. arc, and determine a meridian with the solar. The meridian thus determined agrees within less than 1 minute of the meridian determined by Polaris obsn.

At the same station at 4h 44m p.m. 1.m.t., I set off 33°42' on lat. arc and 23°11' on decl. arc, and determine a meridian with the solar. The meridian thus determined differs by 1 minute from the meridian determined by Polaris obsn.

Note: Because of clouds and rain, it was impracticable to determine a meridian on the claim by direct obsn. of the sun or by Polaris obsn.

BOUNDARIES OF CLAIM

June 12, 1921.

Beginning at Cor. No. 1.

Identical with Cor H/1 of the list survey, which is a malpais stone 10x6x8 ins. above ground, marked and witnessed as described by the Forest Service. I destroy all trace of this list cor.

Deposit a malpais stone 7x3x4 ins., marked with a + 16 ins. in the ground, over which set a malpais stone 26x12x8 ins., chiseled + for the point and 1 HES 597 on SW. face; raise a mound of stone 2 ft. base 1-1/2 ft. high SW. of Cor., whence:

A pine 14 ins. dia. brs. N. 48°32' E. 34 lbs.

A pine 12 ins. dia. brs. N. 10°30' W. 25 lbs.
Chains Each blazed and scribed 1 HES 597 + BT. U.S.I.M. 594 HES. (established by me on June 12, 1921, in connection with HES. 594), an embedded malpais boulder showing 56x46x22 ins. above ground, chiseled + on top for the point and USIM 594 HES on NE. face, with a mound of stone 9 ft. base 7 ft. high NE. of U.S.I.M. bears N. 47°03'06" E. 36.51 chs. distant by traverse which appears at the end of these notes.

Lat. 33°40'54" N., Long. 109°13'30" W., from Forest Service Base Map.

Mag. decl. at 9 a.m. 13°40' W. Mean mag. decl. 13°37' W.

Rain in afternoon.

June 12, 1921.

June 13, 1921.

At 9h. 30m. a.m. l.m.t., I set off 33°41' on lat. arc 22°13' N. on decl. arc and determine a meridian with the solar, at the above Cor. The meridian thus determined checks the azimuth carried by sustained angulation from Cor. No. 3 of HES. 592. On account of cloudy weather, all lines were carried forward by angulation.

Thence S. 8°39' E.

Over level land through edge of scattered pine timber.

Fence on line.

16.10 To Cor. No. 2.

Identical with Cor. H/2 of the list survey, which is a malpais stone 12x6x6 ins. above ground, marked and witnessed as described by the Forest Service. I destroy all trace of this list Cor.
Deposit a malpais stone 6x5x4 ins., marked with a + 18 ins. in the ground, over which set a malpais stone 28x14x10 ins. chiseled for the point and 2 HES 597 on NW. face; raise a mound of stone 3 ft. base 2 ft. high NW. of Cor., whence:

- A pine 24 ins. dia. bras. S. 44°32' W. 82 lks.
- A pine 14 ins. dia. bras. S. 49°00' E. 103 lks.
- Each blazed and scribed 2 HES 597 + BT.

Thence S. 79°47' W.

Over rolling land through edge of heavy pine. Descend 30 ft.

Fence inside of line.

31.50 Arroyo 10 lks. wide 1 ft. deep, course N. Bottom of descent. Ascend gradually 15 ft.

40.00 Low spur bears N. Descend gradually 20 ft.

50.01 Thence to Cor. No. 3.

Identical with Cor. H/3 of the list survey, which is a malpais stone 8x10x4 ins. above ground, marked and witnessed as described by the Forest Service. I destroy all trace of this list Cor.

Deposit a malpais stone 4x4x3 ins., marked with a + 14 ins. in the ground, over which set a malpais stone 24x12x8 ins., chiseled for the point and 3 HES 597 on N. face; raise a mound of stone 2 ft. base 1-1/2 ft. high N. of Cor., whence:

- A pine 34 ins. dia. bras. S. 66°46' E. 85 lks.
- A pine 12 ins. dia. bras. S. 15°13' W. 52 lks.
- Each blazed and scribed 3 HES 597 + BT.

Leave listed and enter unlisted land.

Thence N. 44°15' W.

Over gently rolling land through scattering pine.
Chains

Fence inside of line.

5.00
Small ravine (no well defined banks). Course NE.

14.59
To Cor, No. 4.

Deposit a malpais stone 4x4x4 ins., marked with a +14
ins in the ground, over which set a malpais stone
24x16x6 ins., chiseled + for the point and 4 HES 597
on W. face; raise a mound of stone 2 ft. base 1-1/2 ft.
high W. of Cor., whence:

A pine 32 ins. dia. bras. N. 49°54' E. 26 lfs.
A pine 36 ins. dia. bras. S. 45°28' E. 29 lfs.
Each blasted and scribed 4 HES 597 + BT.

Thence N. 24°11' E.

Over unlisted rolling land through scattering pine.
Fence inside of line.

13.90
Road, bears E. and W.

14.08
To Cor. No. 5.

Identical with Cor. N/4 of the list survey, which is
a malpais stone 19x8x8 ins. above ground, marked and
witnessed as described by the Forest Service. I
destroy all trace of this list Cor.

Deposit a malpais stone 8x4x3 ins., marked with a +16
ins. in the ground, over which set a malpais stone
20x10x6 ins., chiseled + for the point and 5 HES 597
on SE. face; raise a mound of stone 3 ft. base 2 ft.
high SE. of Cor., whence:

A pine 24 ins. dia. bras. N. 33°15' E. 85 lfs.
A pine 24 ins. dia. bras. N. 44°51' W. 80 lfs.
Each blasted and scribed 5 HES 597 + BT.

Cor. No. 3 of HES 592 (surveyed by me on June 8 and
9, 1921), a malpais stone 10x10x10 ins. above
ground, marked + on top and 3 HES 592 on NW.
face, bears N. 42°02'27" W. 74.28 chs. by
traverse which appears at the end of these

6-2016
Chains

Notes.
Leave unlisted and enter listed land.

Thence N. 36°45' E.
Over rolling land through scattering pine. Fence inside of line.

18.00 Draw, head of W. Fork of Beaver Creek, 100.1ks. wide
50 ft. deep, course N.

36.10 Arroyo 10 lks. wide 2 ft. deep, course NW.

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

Area

Listed area - - - - - - - - - - - - - - - - - - 100.88 acres
Unlisted area - - - - - - - - - - - - - - - - - 2.52"
Total area - - - - - - - - - - - - - - - - - - 110.70 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 16x18 ft. (no roof), the long sides extending E. and W.; the NW. Cor. bears S. 64°25' E.
10.77 chs. dist. from Cor. No. 5.
Value - - - - - - - - - - - - - - - - - - - - - - - - - $40.00

A log house 16x24 ft., the long sides extending N. and S., the NW. Cor. of which bears S. 55°24' E. 25.11 chs.
from Cor. No. 5.
Value - - - - - - - - - - - - - - - - - - - - - - - - - $1000.00

A log stable 30x50 ft., the long sides extending N. and S., the NW. Cor. of which bears S. 64°45' E. 24.05 chs.
from Cor. No. 5.
Value - - - - - - - - - - - - - - - - - - - - - - - - - $300.00

About 2 miles of wire fencing.
Value - - - - - - - - - - - - - - - - - - - - - - - - - $300.00
A log shed 20 x 34 ft., the long sides extending E. & W., the SW. Cor. of which bears S. 87° 24' E. 15.41 chs. from Cor. No. 5.

Value — — — — — — — — — — $50.00

DESCRIPTION

The claim is comprised mainly of a large open cienega, locally known as coffee mill cienega, a marshy meadow, situated at an elevation of about 8,000 ft. The soil is a deep, black loam. About 100 acres of the area is suitable for agricultural purposes, of which about 40 acres were under cultivation at the time of survey. The rainfall is depended upon to grow crops.

Water for domestic use is obtained from a spring east of the house.

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 and adjoining claims. HES. 592 lies about 7/8 of a mile to the NW. HES. 505 lies about 1-1/4 miles to NW. HES. 595 (surveyed by me on June 14, 1921) lies about 1/2 mile to N., and HES. 594 (surveyed by me on June 16, 1921) lies about 1/2 mile to NE.

Espero, Arizona, postoffice, lies about 2-1/2 miles to NW.

Alpine, Arizona, the nearest settlement and trading point, lies about 28 miles to NE. and is reached by trail. Springerville, Arizona, the general trading point for this section of the country, lies about 40 miles distant in a northerly direction and is reached by fair wagon road.
## Homestead Entry Survey No. 597

### Apache National Forest

#### State of Arizona

<table>
<thead>
<tr>
<th>Chains</th>
<th>Traverse</th>
<th>Dist. (N. S.)</th>
<th>E. (W.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>S. 6° 39'E.</td>
<td>16.10</td>
<td>16.92</td>
<td>2.42</td>
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<tr>
<td>S. 79° 47'E.</td>
<td>50.01</td>
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<td>49.22</td>
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<tr>
<td>N. 44° 15'E.</td>
<td>14.59</td>
<td>10.45</td>
<td>10.18</td>
</tr>
<tr>
<td>N. 54° 11'E.</td>
<td>14.48</td>
<td>13.21</td>
<td>5.93</td>
</tr>
<tr>
<td>N. 56° 45'E.</td>
<td>51.07</td>
<td>1.11</td>
<td>50.96</td>
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<td><strong>Total</strong></td>
<td><strong>146.25</strong></td>
<td><strong>24.77</strong></td>
<td><strong>24.79</strong></td>
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**Error in lat. and dep.** 02 01

**Closing error 1/6541.**

### Unlisted Area

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<th>Chains</th>
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<tr>
<td>N. 44° 15'E.</td>
<td>14.59</td>
<td>10.45</td>
<td>10.18</td>
</tr>
<tr>
<td>N. 24° 11'E.</td>
<td>14.48</td>
<td>13.21</td>
<td>5.93</td>
</tr>
<tr>
<td>S. 10° 11'E.</td>
<td>24.04</td>
<td>25.66</td>
<td>4.25</td>
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<tr>
<td><strong>Total</strong></td>
<td><strong>25.66</strong></td>
<td><strong>25.66</strong></td>
<td><strong>10.18</strong></td>
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**Total Cor. 5/597 to Cor. 3/592**

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<th>Traverse</th>
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<td>N. 63° 01'E.</td>
<td>3.42</td>
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<td>S. 88° 58'E.</td>
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<td>S. 79° 58'E.</td>
<td>4.59</td>
<td>.80</td>
<td>4.52</td>
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<tr>
<td>N. 60° 24'E.</td>
<td>10.12</td>
<td>5.00</td>
<td>8.80</td>
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<td>N. 21° 05'E.</td>
<td>8.75</td>
<td>8.16</td>
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<td>N. 18° 35'E.</td>
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<td>N. 45° 40'E.</td>
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<td>2.00</td>
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<td>N. 75° 12'E.</td>
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<td>N. 50° 01'E.</td>
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<td>9.04</td>
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<td>N. 52° 54'E.</td>
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<td>N. 6° 52'E.</td>
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<td>N. 7° 34'E.</td>
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<td>7.58</td>
<td>1.02</td>
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<td>N. 86° 27'E.</td>
<td>8.61</td>
<td>.53</td>
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<td>S. 35° 51'E.</td>
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<td><strong>Total</strong></td>
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**Resultant course N. 42° 02'27" W. 74.38 chs.**

## Total H.E.S. 597 to U.S.I.M. 594 H.E.S.

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<td>N. 25° 18'E.</td>
<td>7.77</td>
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<td>3.07</td>
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<tr>
<td>S. 61° 45'E.</td>
<td>.58</td>
<td>.27</td>
<td>.51</td>
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<td><strong>Total</strong></td>
<td><strong>22.61</strong></td>
<td><strong>.27</strong></td>
<td><strong>31.77</strong></td>
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**Resultant course N. 47° 03'06" E. 39.51 chs.**

Survey completed June 13, 1921.

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Thomas F. Meyers

Surveyor - Forest Service
TABLES AND CALCULATIONS OF HOMESTEAD ENTRY SURVEY NO. 597, STATE OF ARIZONA

<table>
<thead>
<tr>
<th>CORNERS</th>
<th>BEARING</th>
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<tr>
<td>1 - 2</td>
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<td>2 - 3</td>
<td>S. 79°47' W.</td>
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<td>3 - 4</td>
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<td>4 - 5</td>
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<td>46</td>
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Error in Lat. & Dep. 02
Closing error 1/6541

Unlisted Area
N. 44°15' W. 14.59
N. 24°11' E. 14.48
S. 10°11' E. 84.04

Unlisted Area
10 18
10 18
106 39
78 34
381 16
184 72
184 72
184 72
APPROVAL

Office of the United States Surveyor General,

Phoenix, Arizona, Dec. 12, 1922

The foregoing field notes of Homestead Entry Survey No. 597

executed by Thomas F. Myers, Surveyor

under his special instructions, dated May 14, 1919, 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.