U. S. DEPARTMENT OF AGRICULTURE
FOREST SERVICE

FIELD NOTES
OF
HOMESTEAD ENTRY SURVEY NO. 587
SITUATED IN THE TONTO NATIONAL FOREST
ADMINISTRATIVE DISTRICT NO. 3

In Section 28, unsurveyed, Township 10 N., Range 14 E.
In Section 29, unsurveyed, Township 10 N., Range 14 E.

of the GILA AND SALT RIVER BASE & Meridian.

State of ARIZONA

Applicant for Listing
John F. Scooter,
Residence
Young, Arizona.
Application No. 510, dated August 24, 1914
List No. 3-3693, dated September 30, 1916

Applicant for survey
Herman F. Scharrinhausen,
Residence
Young, Arizona.
H. K. No. 036239, dated September 7, 1917

Land Office
Phoenix, Arizona.

Survey executed by Frank D. Yost, Surveyor - Forest Service, (Forest Service, Tonto)
Under special instructions dated March 12, 1919
Survey commenced May 30, 1919
Survey completed May 30, 1919

OATH OF ASSISTANTS

We hereby certify that we assisted Frank D. Yost, Surveyor - Forest Service, in surveying all those parts or portions of Homestead Entry Survey No. 557, 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.

[Signatures]

[Handwritten date and name]

OATH OF SURVEYOR

Frank D. Yost, Surveyor - Forest Service, do solemnly swear that, in strict conformity with the special instructions of the United States Surveyor General for Arizona, dated March 12, 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

[Handwritten details]

[Handwritten date and name]

Subscribed and sworn to before me this [Handwritten date and name]

My commission expires March 17, 1921.
FORM 28
Sheet No. 3.

HOMESTEAD ENTRY SURVEY NO. 587

Tonto National Forest

State of Arizona

Chains
Applicant for listing, John F. Sooter; Application No. 510, dated August 24, 1914; List No. 3-2893, dated September 30, 1916; R. E. 035239 made in the Phoenix Land Office on September 7, 1917, by Herman F. Scharr- inghausen.

Surveyed under special instructions from the Surveyor General for Arizona, dated March 12, 1919, and designated as Homestead Entry Survey No. 587.

Situated in what will probably be when surveyed Secs. 28 and 29, T. 10 N., R. 14 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 May 30, 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.

May 30, 1919.

I observe the altitude of the sun for azimuth at cor.

No. 4, H.E.S. 587, hereinafter described. The reading on the reference mark was set at zero, and the sun was observed in all four quadrants of the field. My watch is set for local mean time. The solar hour line

Latitude 34° 11' 02" N., Longitude 110° 56' 09" W., from Special Instructions from the Surveyor General and later verified.

1:19
I again observe the altitude of the sun for azimuth at the same station. The reading on the reference mark was set at zero, and the sun was observed in all four quadrants of the field. My watch is set for local mean time.

<table>
<thead>
<tr>
<th>Telescope Pos.</th>
<th>1.m.t.</th>
<th>Horizontal Angle</th>
<th>Vertical Angle</th>
</tr>
</thead>
<tbody>
<tr>
<td>Direct</td>
<td>6h 57m 10s</td>
<td>53° 32' 30&quot;</td>
<td>24° 18' 30&quot;</td>
</tr>
<tr>
<td>Reversed</td>
<td>6h 59m 25s</td>
<td>53° 14' 00&quot;</td>
<td>24° 12' 30&quot;</td>
</tr>
<tr>
<td>Direct</td>
<td>6h 57m 55s</td>
<td>55° 03' 00&quot;</td>
<td>24° 25' 30&quot;</td>
</tr>
<tr>
<td>Reversed</td>
<td>6h 58m 40s</td>
<td>55° 44' 30&quot;</td>
<td>24° 06' 30&quot;</td>
</tr>
</tbody>
</table>

Bearing of reference mark is N. 26° 01' 12" E.

The two observations give a mean bearing of N.26°01'34"E.

I accept bearing of reference mark as N. 26° 01' E., and from the corresponding meridian all the courses of this survey were deflected by sustained angulation.

BOUNDARIES OF CLAIM

Beginning at Cor. No. 1, which is also Cor. No. 3, H.E.S. 589.

Identical with Cor. H-5 of List 5-3895, which is a sandstone 11 x 8 x 2 ins. above ground, marked and witnessed as described by the Forest Service. I destroy all trace of this list cor.

Deposit a sandstone 3 x 2 x 1 ins. marked with # 25 ins. in the ground, over which set an iron post 36 ins.
Chains long, 2 ins. dia., with brass cap marked 1919 on the S. rim, 1 H E S 587 in NE. quadrant and 3 H E S 589 in the South half; raise a mound of stone 3 ft. base, 2 ft. high, NE. and south of cor.; whence:

An oak 8 ins. dia., brs. N. 24° 19' E.,
74 lvs. dist.

A juniper 30 ins. dia., brs. S. 71° 20' E.,
76 lvs. dist.

Each blazed and scribed 1 H E S 587 + 3 T
An oak 5 ins. dia., brs. S. 4° 41' W.,
49 lvs. dist.

An oak 12 ins. dia., brs. N. 60° 32' W.,
28 lvs. dist.

Each blazed and marked 3 H E S 589 + 3 T

Cor. No. 2 of H. E. S. 589, a limestone 6 x 4 x 7 ins. above ground, marked +
on top and 2 H E S 589 on SE. face, brs.
S. 89° 54' W., 19.95 cts. dist. by direct measurement.

The corner of Secs. 4, 5, 32 and 33, T. 9 and 10 N., R. 14 E., a granite porphyry stone 12 x 8 x 8 ins. above ground, marked and witnessed as described by the Surveyor General, brs. S. 5° 31' 06" E., 100.56 cts. dist. by traverse, which appears at the end of these notes.

Lat. 34° 10' 38" N., Long. 110° 55' 39" W., from Special Instructions from the Surveyor General and later verified.

The Magnetic declination at 8 a.m. is 14° 30' E.,
Mean Magnetic declination is 14° 27' E.

Note: The 1/4 sec. cor. on the N. bdy. of Sec. 4, T. 9 N., R. 14 E. was diligently searched for but no
Chains thru scattering juniper and oak.

15.02 To Cor. No. 5, which is also Cor. No. 11 of H. E. S. 590, identical with Cor. H-2 of List 5-5893, and Cor. H-10, of List 5-5893, which is a sandstone 11 x 8 x 2 ins. above ground, marked and witnessed as described by the Forest Service. I destroy all trace of this list corner.

Deposit a granite stone 3 x 2 x 2 ins. marked with a + 24 ins. in the ground, over which set an iron post 26 ins. long, 2 ins. dia., with brass cap marked 1919 on S. trim, 3 H E S 587 in SE. quadrant, and 11 H E S 590 in portion of circle facing H. E. S. 590; raise a mound of stone 3 ft. base, 2 ft. high, SE. and NW. of cor., whence:

A juniper 30 ins. dia., brs. N. 44° 19' E.,
1040 lks. dist.

A juniper 14 ins. dia., brs. S. 40° 05' E.,
308 lks. dist.

Each blazed and scribed 3 H E S 587 + B T

A juniper 36 ins. dia., brs. S. 52° 13' W.,
202 lks. dist.

A juniper 24 ins. dia., brs. W. 30° 27' W.,
325 lks. dist.

Each blazed and scribed 11 H E S 590 + B T

Thence N. 89° 57' E.

Over open level, mesa.

37.76 Enter dense brush, descend 15 ft. over E. slope.

40.10 To Cor. No. 4, which is also Cor. No. 10 of H. E. S. 590, identical with Cor. H-1 of List 5-5893, which is a sandstone 16 x 10 x 6 ins. above ground, marked and witnessed as described by the Forest Service. I destroy all trace of this list corner.

Deposit a sandstone 3 x 3 x 2 ins. marked with a + 18
Chains to evidence of same was found. Thence N. 0° 12' W., Over level mesa, thru scattering juniper.

24.68 To Cor. No. 2, which is also Cor. No. 1 of H.E.S. 590. Identical with Cor. H-9, of List 3-3891, which is a sandstone 12 x 6 x 2 ins. above ground, marked and witnessed as described by the Forest Service. I destroy all trace of this list cor. L. I will deposit a sandstone 3 x 2 x 2 ins. marked with a + 18 ins. in the ground, over which set a red sandstone 24 x 12 x 10 ins. chiseled + for the point and 2 H.E.S 587 on E. face; and 1 H.E.S 590 on NW. face; raise a mound of stone 3 ft. base, 2 ft. high, East and NW. of cor., whence:

An oak 18 ins. dia., brs. S. 20° 01' E.,
24 lks. dist. to W. face.

An oak 12 ins. dia., brs. N. 65° 47' E.,
37 lks. dist. to W. face.

Each blazed and scribed 2 H.E.S. 587 + B T

An oak 15 ins. dia., brs. N. 2° 59' W.,
98 lks. dist. to E. face.

A juniper 40 ins. dia., brs. N. 85° 10' W.,
84 lks. dist. to E. face.

Each blazed and scribed 1 H.E.S. 590 + B T

Thence N. 0° 09' W.

Desq. 60 ft. over steep rocky NW. slope, thru dense oak brush.

1.79 Wash, 85 lks. wide, banks 3 ft. high, (dry) course SW.

Bottom of desc. 60 lks. bottom of spillway.

Ascend 60 ft. over a steep rocky SE. slope, thru dense oak brush.

3.71 Top of ascent, on edge of mesa, thence over level mesa,
Chains
ins. in the ground, over which set a sandstone 24 x 10 x 5 ins. chiseled + for the point, and 4 H.E.S. 587 on SW. face; and 10 H.E.S. 590 on N. face; raise a mound of stone 3 ft. base, 2 ft. high, SW. and North of cor., whence:

An oak 10 ins. dia., brs. S. 58° 01' W.,
81 lks. dist.
An oak 15 ins. dia., brs. S. 41° 57' E.,
71 lks. dist.
Each blazed and scribed 4 H.E.S. 587, + B.T
An oak 24 ins. dia., brs. N. 12° 11' E.,
30 lks. dist.
A pine 10 ins. dia., brs. S. 38° 01' E.,
74 lks. dist.
Each blazed and scribed 10 H.E.S. 590 + B.T
Cor. No. 1 of H.E.S. 588, which is also Cor.
No. 9 of H.E.S. 590, an iron post 2 ins.
dia., 12 ins. above ground, with brass cap marked 1919 on S. rim, 1 H.E.S. 588 in NE.
quad and 9 H.E.S. 590 in NW. quad.,
bears East, 4.95 obs. dist.

Thence S. 0° 03' E. Along rocky E. slope, thru dense brush, gradually
ascend 10 ft.
6.71

Top of ascent, on edge of mesa, thence over level mesa,
thru thick juniper and oak.
10.81

Cor. wire fence, fences bear N. 81° W. and S. 75° E.
22.60

Wire fence, brs. N. 14° E. and S. 14° W.
40.00

To Cor. No. 5, which is also Cor. No. 4, H.E.S. 589.
Identical with Cor. H-4 of List No. 3-3893, and Cor.
H-2 of List No. 3-3892, which is a sandstone 14 x 6 x 5 ins. above ground, marked and witnessed as described by
HOMESTEAD ENTRY SURVEY NO. 687
Tonto National Forest
State of Arizona

Chains on the Forest Service. I destroy all trace of this list
con.

Deposit a sandstone 2 x 2 x 1 ins. marked with a + 18
ins. in the ground on solid rock, over which set an iron
post 36 ins. long, 2 ins. dia., with brass cap marked
1919 on S. rim, S H E S 587 in NW. quadrant and 4 H E S
689 in SW. quadrant, surrounded by a mound of stone 3 ft.
base, 18 ins. high, to protect cor., and raise a mound of
stone 3 ft. base, 2 ft. high, NW. and SW. of cor., whence:

An oak 18 ins. dia., brs. N. 33° 47' E.,
155.1 lbs. dist.

An oak 10 ins. dia., brs. N. 52° 23' W.,
12 lbs. dist.

Each blazed and scribed S H E S 587 + B T
An oak 18 ins. dia., brs. S. 41° 27' W.,
95 lbs. dist.
An oak 8 ins. dia., brs. S. 56° 45' E.,
90 lbs. dist.

Each blazed and scribed 4 H E S 689 + B T

Thence N. 89° 38' W., over level mesa, thru scattering juniper and oak.

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

AREA
Total Area, ———— —— ——— ——— ——— ——— ——— ——— ——— 169.66 Acres.

IMPROVEMENTS

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

[Signature]
CHAINS: A frame and rock house, 10 x 18 ft., the long sides extending N. and S., the NE. cor. of which brs. S. 5° 42' W., 11.47 chs. dist. from Cor. No. 4, or about 300 yds. S. 10° 57' E., 45.70 chs. dist. from the SE. cor. of the claim.
Value $100.00

A frame barn 11 x 16 ft., the long sides extending E. and W., the NE. cor. of which brs. S. 2° 02' W., 12.98 chs. dist. from Cor. No. 4.
Value $55.00

A frame shed 10 x 10 ft., the long sides extending N. and S., the NE. cor. of which brs. S. 10° 01' W., from Cor. No. 4, 13.25 chs. distant.
Value $25.00

Approximately 1-1/4 mile 4 wire fence,
Value $200.00

DESCRIPTION
The claim consists mainly of high level mesa, with scattering stand of juniper and oak.
The soil is a good loam, somewhat gravelly in spots.
No water is available for any purpose, nor are there any prospects of developing any except by storage tanks, and topography renders this difficult. At present water for domestic use is being hauled from Pine creek about 1-1/2 miles SW. of the claim.
70% of this claim can be cultivated and 30 acres were under cultivated at time of survey.
There is no timber of commercial value on the claim.
No evidence of mineral was observed on the claim.

CONFLICTS AND ADJOINING CLAIMS
There are no conflicts. H.E.S. 589 adjoins on the S.
Chains
Line 3-4 thereof being identical with line 1-5 of this survey. H.E.S. 590 adjoins on the N. and West; lines 1-11 and 11-10 thereof being identical with lines 2-3 and 3-4 respectively of this survey. Cor. No. 1 of H.E.S. 588, which is the SW. cor. of the claim, brs. East 4.96 chs. from Cor. No. 4, of this survey. Not: H.E.S. 588 has been cancelled. Young, Arizona, the nearest settlement and postoffice, lies about six miles distant in a southerly direction.

TRAVERSES

<table>
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<tr>
<th>Course</th>
<th>Dist.</th>
<th>H.</th>
<th>S.</th>
<th>E.</th>
<th>W.</th>
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<td>.02</td>
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<td>Closing Error, 1:6370</td>
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TIE FROM COR. NO. 1, H.E.S. 588 TO
COR. SECS. 4, 5, 32 and 33, TS. 9 AND 10, H. R. 14 E.

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<tr>
<th>Course</th>
<th>Dist.</th>
<th>H.</th>
<th>S.</th>
<th>E.</th>
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Resultant Course, S. 5° 32' 06' E., 100.56 chs.

Survey completed May 30, 1919.

Surveyor - Forest Service
Chains

May 30, 1919.

Direct Solar Obs. at Cor. No. 4, H.E.S. 587,
Lat. 34° 11' 02" N., Long. 110° 55' 09" W., from
Special Instructions from the Surveyor General, and
later verified. Elevation approximately 5600 feet.

Telescope Pos. 1.m.t. Horizontal Vertical
sun a.m. Angle Angle

Direct 6h 51m 25s 52° 49' 00" 23° 06' 30"
Reversed 6h 53m 55s 52° 24' 30" 23° 08' 30"
Direct 6h 52m 10s 52° 21' 00" 23° 16' 30"
Reversed 6h 52m 15s 52° 03' 30" 23° 00' 30"

Means, 6h 52m 41s 52° 42' 00" 23° 08' 00"

Corr. for Refr. 1' 45"

Decl. = 21° 40' 04" N.

Cos. Q. = sin. 21° 40' 04" E. \frac{1}{\cos. 23° 06' 15"} = \frac{1}{\tan. 23° 06' 15"}

sin. 21° 40' 04" = 0.5672901

\cos. 23° 06' 15" = 0.9636901

\cos. 23° 06' 15" = \frac{1}{\cos. 34° 11' 02"} = \frac{1}{\tan. 34° 11' 02"} = \frac{1}{\tan. 23° 06' 15"}

\tan. 34° 11' 02" = 9.8319902

\tan. 23° 06' 15" = 9.6500433

\sin. Q. = 0.48525

\cos. Q. = 0.95449

Q. = 78° 42' 36"

Bearing of reference mark is N. 26° 01' 36" E.
HOMESTEAD ENTRY SURVEY NO. 587
TOMTO NATIONAL FOREST
STATE OF ARIZONA

Chains

May 30, 1919.

Direct Solar Obsr. at Cor. No. 4, H.B.S. 587.
Lat. 34° 11' 02" N., Long. 110° 35' 09" W. from

Special Instructions from the Surveyor General, and

later verified. Elevation approximately 5500 feet.

Telescope Pos. l.m.t. - Horizontal - Vertical

sun    a.m.    Angle    Angle

Direct 6h 57m 10s 58° 32' 30" 24° 16' 30"
Reversed 7h 59m 25s 53° 14' 00" 24° 12' 30"
Direct 6h 57m 55s 53° 03' 00" 24° 25' 30"
Reversed 7h 58m 40s 52° 44' 30" 24° 06' 30"

Means, 6h 58m 18s 52° 23' 30" 24° 15' 45"

Corr. for refr. 24° 29"

Declination, 21° 40' 07" N.

\[
\cos \theta = \frac{\sin 21° 40' 07"}{\tan 34° 11' 02"} \times \frac{\cos 34° 11' 02"}{\cos 24° 14' 06"}
\]

\[
\tan 24° 14' 06" = \frac{\tan 34° 11' 02"}{\tan 34° 11' 02"}
\]

\[
\sin 21° 40' 07" = 0.3872069
\]

\[
\cos 34° 11' 02" = 0.9176307
\]

\[
\cos 24° 14' 06" = 0.9595327
\]

\[
9.6897426 = \log 9.4853496 = \log 0.30674
\]

Cot. \theta = \frac{\tan 34° 11' 02"}{\tan 34° 11' 02"}

Bearing of reference mark, N. 26° 01' 12" E.
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<th>BEARING</th>
<th>DISTANCE</th>
<th>LATITUDES</th>
<th>DEPARTURES</th>
<th>DOUBLE M. D.</th>
<th>N. AREAS</th>
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Error in Lat. and Dep. 01 02

Closing Error, 1:6370

ARIZONA
APPROVAL

Office of the United States Surveyor General,

Phoenix, Arizona, May 18, 1930

The foregoing field notes of Homestead Entry Survey No. 587

executed by Frank D. Yost, Surveyor [Forest Service Title], under his special instructions, dated March 12, 1929, 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.