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ORIGINAL

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

U. S. DEPARTMENT OF AGRICULTURE
FOREST SERVICE

DEC 3 1919
MAY 13 1920

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. Sooter,
Residence Young, Arizona.
Application No. 510 , dated August 24 , 19 14
List No. 3-3893 , dated September 30 19 16

Applicant for survey Herman F. Scharringhausen,
Residence Young, Arizona.
H. E. No. 036239 , dated September 7 , 19 17
Land Office Phoenix, Arizona.

Survey executed by Frank D. Yost, Surveyor - Forest Service,
[Forest Service Title]
Under special instructions dated March 12 , 19 19
Survey commenced May 30 , 19 19
Survey completed May 30 , 19 19
Under Acts of June 11, 1906, and October 1, 1918.

OATH OF ASSISTANTS

We hereby certify that we assisted **Frank D. Yost,**
Surveyor - Forest Service, in surveying all those
[Forest Service Title.]

parts or portions of Homestead Entry Survey No. **587,** 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 estab-
lished, according to the instructions furnished by the United States
Surveyor General for **ARIZONA.**

Note: It would have been
very expensive and incon-
venient to appear before an
officer to administer oaths
to Assistants; hence, they
were taken by the Surveyor.

H. E. Braudenburg
Chairman.

H. H. Longfellow
Chairman.

Subscribed and sworn to before me this **sixth** day of
August, 19 **19**.

Frank D. Yost
Surveyor - Forest Service.

OATH OF SURVEYOR

I, **Frank D. Yost,** **Surveyor - Forest Service,**
[Forest Service Title.]

do solemnly swear that, in strict conformity with the special instruc-
tions of the United States Surveyor General for **ARIZONA**, dated
March 12, 19 **19**, 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

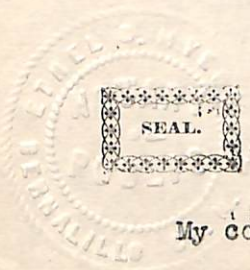
List Patent, No. **3-3893**, dated **September 30** 19 **16**, for
under the Act of **June 11**, 19 **06**,
the same to be known as Homestead Entry Survey No. **587**,
situated within the **TONTO** National Forest, in
unsurveyed Section 28, Township **10 N.**, Range **14 E.**, and
unsurveyed Section 29, Township **10 N.**, Range **14 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
survey.

Frank D. Yost
Surveyor, Forest Service
[Forest Service Title.]

Subscribed and sworn to before me this **fifth** day of
November, 19 **19**.

Ethel G. Myers
Notary Public.



My Commission expires **March 17, 1921.**

TONTO NATIONAL FOREST

STATE OF ARIZONA

Chains Applicant for listing, John F. Sooter; Application No. 510, dated August 24, 1914; List No. 3-3893, dated September 30, 1916; H. E. 036239 made in the Phoenix Land Office on September 7, 1917, by Herman F. Scharringhausen.

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.

Latitude 34° 11' 02" N., Long. 110° 55' 09" W., from

Special Instructions from the Surveyor General and

later verified.

Chains	Telescope	Pos. sun	l.m.t. a.m.	Horizontal Angle	Vertical Angle
	Direct	+°	6h 51m 25s	52° 49' 00"	23° 06' 30"
	Reversed	±	6h 53m 55s	52° 34' 30"	23° 08' 30"
	Direct	+°	6h 52m 10s	52° 21' 00"	23° 16' 30"
	Reversed	+°	6h 53m 15s	53° 03' 30"	23° 00' 30"

Bearing of reference mark, N. 26° 01' 36" E.

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.

Telescope	Pos. sun	l.m.t. a.m.	Horizontal Angle	Vertical Angle
Direct	+°	6h 57m 10s	53° 32' 30"	24° 18' 30"
Reversed	±	6h 59m 25s	53° 14' 00"	24° 12' 30"
Direct	+°	6h 57m 55s	53° 03' 00"	24° 25' 30"
Reversed	+°	6h 58m 40s	53° 44' 30"	24° 06' 30"

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

The two observations give a mean bearing of N. 26° 01' 24" 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-3 of List 3-3893, 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 a + 26 ins. in the ground, over which set an iron post 36 ins.

TONTO NATIONAL FOREST

STATE OF ARIZONA

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., 275 lks. dist.

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

Each blazed and scribed 1 H E S 587 + B T

An oak 5 ins. dia., brs. S. 4° 41' W., 49 lks. dist.

An oak 12 ins. dia., brs. N. 60° 39' W., 28 lks. dist.

Each blazed and marked 3 H E S 589 + B 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° 34' W., 19.95 chs. dist. by direct measurement.

The corner of Secs. 4, 5, 32 and 33, Ts. 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 chs. 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

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STATE OF ARIZONA

Chains thru scattering juniper and oak.

15.02 To Cor. No. 3, which is also Cor. No. 11 of H. E. S. 590,
 Identical with Cor. H-2 of List 3-3893, and Cor. H-10,
 of List 3-3891, 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 granite stone 3 x 2 x 2 ins. marked with a +
 26 ins. in the ground, over which set an iron post 36
 ins. long, 2 ins. dia., with brass cap marked 1919 on
 S. rim, 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.,

+ 440 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 35 ins. dia., brs. S. 52° 13' W.,

202 lks. dist.

A juniper 24 ins. dia., brs. N. 30° 27' W.,

326 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 3-3893, which is a sand-

stone 15 x 10 x 6 ins. above ground, marked and wit-

nessed 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

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TONTON NATIONAL FOREST

STATE OF ARIZONA

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.

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 10 ins. dia., brs. S. 20° 01' E., 44 lks. dist.

An oak 12 ins. dia., brs. N. 66° 47' E., 37 lks. dist.

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

An oak 15 ins. dia., brs. N. 2° 59' W., 28 lks. dist.

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

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

Thence N. 0° 09' W.

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

1.79 Wash, 25 lks. wide, banks 3 ft. high, (dry) course SW. Bottom of desc.

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 16 ins. dia., brs. S. 58° 01' W., 21 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. quadrant and 9 H E S 590 in NW. quadrant, bears East, 4.95 chs. 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

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STATE OF ARIZONA

Chains

the Forest Service. I destroy all trace of this list

cor. 11 1/2' x 11 1/2' x 11 1/2' ins. marked with a + 18

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, 5 H. E. S. 587 in NW. quadrant and 4 H. E. S.
589 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 lks. dist.

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

12 lks. dist.

Each blazed and scribed 5 H. E. S. 587 + B T

An oak 16 ins. dia., brs. S. 41° 27' W.,

95 lks. dist.

An oak 8 ins. dia., brs. S. 56° 45' E.,

90 lks. dist.

Each blazed and scribed 4 H. E. S. 589 + B T

Thence N. 89° 38' W.

Over level mesa, thru scattering juniper and oak.

To Cor. No. 1, place of beginning.

AREA

Total Area, 159.66 Acres.

IMPROVEMENTS

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

Chains A frame and rock house, 10 x 18 ft., the long sides extending N. and S., the NE. cor. of which bears S. 3° 42' W., 11.47 chs. dist. from Cor. No. 4, or 11.47 chs. dist. from

Value - - - - - \$ 100.00

A frame barn 11 x 16 ft., the long sides extending E. and W., the NE. cor. of which bears 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 bears 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.

TONTO NATIONAL FOREST

STATE OF ARIZONA

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 4.95 chs. from Cor. No. 4, of this survey. Note: H.E.S. 588 has been cancelled. Young, Arizona, the nearest settlement and postoffice, lies about six miles distant in a southerly direction.

TRAVERSES

Course	Dist.	N.	S.	E.	W.
N. 0° 12' W.	24.68	24.68			.09
N. 0° 09' W.	15.02	15.02			.04
N. 89° 57' E.	40.10	.03		40.10	
S. 0° 03' E.	40.00		40.00	.03	
N. 89° 38' W.	40.02	.26			40.02
	<u>159.82</u>	39.99	40.00	40.13	40.15
Error in Lat. and Dep.			<u>39.99</u>		<u>40.13</u>
			.01		.02

Closing Error, 1:6370

TIE FROM COR. NO. 1, H.E.S. 587 TO

COR. SECS. 4, 5, 32 and 33, TS. 9 AND

10, N., R. 14 E.

Course	Dist.	N.	S.	E.	W.
S. 89° 38' E.	40.02		.26	40.02	
S. 0° 52' W.	20.74		20.74		.31
N. 18° 10' E.	.77	.73		.24	
S. 65° 00' W.	3.14		1.33		2.85
S. 37° 00' E.	18.75		14.97	11.28	
S. 0° 41' E.	64.54		64.54	.77	
S. 88° 01' W.	17.37		.60		17.36
S. 85° 39' W.	10.05		.76		10.02
N. 78° 53' W.	12.33	2.38			12.10
	<u>187.71</u>	3.11	103.20	52.31	42.64
			<u>3.11</u>	<u>42.64</u>	
			100.09	9.67	

Resultant Course, S. 5° 31' 06" E., 100.56 chs.

Survey completed May 30, 1919.

Frank J. Post,
Surveyor - Forest Service

Chains

May 30, 1919.

Direct Solar Obsn. at Cor. No. 4, H.E.S. 587,
Lat. $34^{\circ} 11' 02''$ N., Long. $110^{\circ} 55' 09''$ 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	$+^{\circ}$	6h 51m 25s	$52^{\circ} 49' 00''$	$23^{\circ} 06' 30''$
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Reversed	$+^{\circ}$	6h 53m 55s	$52^{\circ} 34' 30''$	$23^{\circ} 08' 30''$
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Direct	$+^{\circ}$	6h 52m 10s	$52^{\circ} 21' 00''$	$23^{\circ} 16' 30''$
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Reversed	$+^{\circ}$	6h 53m 15s	$53^{\circ} 03' 30''$	$23^{\circ} 00' 30''$
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Means,		6h 52m 41s	$52^{\circ} 42' 00''$	$23^{\circ} 08' 00''$
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Corr. for Refr.				$1' 45''$
				$23^{\circ} 06' 15''$

Decl. = $21^{\circ} 40' 04''$ N.

$\text{Cos. Q.} = \frac{\sin. 21^{\circ} 40' 04'' \text{ E.} - \tan. 34^{\circ} 11' 02'' \times \cos. 23^{\circ} 06' 15''}{\cos. 34^{\circ} 11' 02'' \times \cos. 23^{\circ} 06' 15''}$

$\tan. 23^{\circ} 06' 15''$

$\sin. 21^{\circ} 40' 04'' = 0.3672901$

$\cos. 34^{\circ} 11' 02'' = 0.9176307$

$\cos. 23^{\circ} 06' 15'' = 0.91636901$

$0.3672901 \times 0.91636901 = \log. .48525$

$\tan. 34^{\circ} 11' 02'' = 0.68319902$

$\tan. 23^{\circ} 06' 15'' = 0.4300433$

$0.68319902 \times 0.4300433 = \log. .28976$

Cos. Q. = .19549

Q. = $78^{\circ} 43' 36''$

Bearing of reference mark is N. $26^{\circ} 01' 36''$ E.

Chains May 30, 1919.
Direct Solar Obsn. at Cor. No. 4, H.E.S. 587.
Lat. $34^{\circ} 11' 02''$ N., Long. $110^{\circ} 55' 09''$ W. from
Special Instructions from the Surveyor General, and
later verified. Elevation approximately 5500 feet.

Telescope Pos.	l.m.t.	Horizontal Angle	Vertical Angle
Direct	6h 57m 10s	$53^{\circ} 32' 30''$	$24^{\circ} 18' 30''$
Reversed	6h 59m 25s	$53^{\circ} 14' 00''$	$24^{\circ} 12' 30''$
Direct	6h 57m 55s	$53^{\circ} 03' 00''$	$24^{\circ} 25' 30''$
Reversed	6h 58m 40s	$53^{\circ} 44' 30''$	$24^{\circ} 06' 30''$
Means,	6h 58m 18s	$53^{\circ} 23' 30''$	$24^{\circ} 15' 45''$
	Corr. for refr.		$1' 39''$
			$24^{\circ} 14' 06''$

Declination, $21^{\circ} 40' 07''$ N.

$$\text{Cos. Q.} = \frac{\sin. 21^{\circ} 40' 07''}{\cos. 34^{\circ} 11' 02'' \times \cos. 24^{\circ} 14' 06''} \times \tan. 34^{\circ} 11' 02''$$

$$\tan. 24^{\circ} 14' 06''$$

$$\sin. 21^{\circ} 40' 07'' = 9.5673060$$

$$\cos. 34^{\circ} 11' 02'' = 9.9176307$$

$$\cos. 24^{\circ} 14' 06'' = 9.9599327$$

$$9.6897426 = \log. .48949$$

$$\tan. 34^{\circ} 11' 02'' = 9.8319902$$

$$\tan. 24^{\circ} 14' 06'' = 9.6533594$$

$$9.4853496 = \log. .30574$$

$$\text{Cos. Q.} = .18375$$

$$\text{Q.} = 79^{\circ} 24' 42''$$

Bearing of reference mark, N. $26^{\circ} 01' 12''$ E.

- 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. 587, STATE OF ARIZONA

CORNERS.	BEARING.	DISTANCE.	LATITUDES.		DEPARTURES.		DOUBLE M. D.		N. AREAS.		S. AREAS.	
			NORTH.	SOUTH.	EAST.	WEST.						
1 - 2	N. 0-12 W.	24.68 ✓	24 68				09	17		420		
2 - 3	N. 0-09 W.	15.02 ✓	15 02				04	04		60		
3 - 4	N. 89-57 E.	40.10 ✓	03 ⁰⁴		40 10 ¹¹			40 11		1 60		
4 - 5	S. 0-03 E.	40.00 ✓		40 00		03		80 25			3210 00	
5 - 1	N. 89-38 W.	40.02 ✓	26				40 02 ⁰¹	40 27		10 47		
		159.82 ✓	39.99	40 00	40 13	40 15				16 87	3210 00	
			40 00	40 00	40 14	40 14					16 87	
				39.99		40 13						
	Error in Lat. and Dep.			01			02					
	Closing Error, 1:6370										20/3193 13	
											159 66	Acres.

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APPROVAL


Office of the United States Surveyor General,

Phoenix, Arizona, May 18, 1920

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, 1919, 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.