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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-8-1919
MAY 13 1920

FIELD NOTES

OF

HOMESTEAD ENTRY SURVEY NO. 589

SITUATED IN THE TONTO NATIONAL FOREST

ADMINISTRATIVE DISTRICT NO. 3

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

of the

GILA AND SALT RIVER BASE & Meridian.

State of

ARIZONA.

Applicant for listing	C. N. Greer,
Residence	Young, Arizona.
Application No. 591	, dated September 7, 1915
List No. 3-3892	, dated September 30, 1916

Applicant for survey	Samuel W. Laughlin,
Residence	Young, Arizona.
H. E. No. 041376 041655	, dated February 24, 1919, Relinquished April 2, 1919 April 2, 1919, Rufus C. Russell
Land Office	Phoenix, Arizona.

Survey executed by	Frank D. Yost, Surveyor - Forest Service,
Under special instructions dated	March 12, 1919
Survey commenced	June 2, 1919
Survey completed	June 2, 1919
Under Acts of	June 11, 1906, and October 1, 1918.

OATH OF ASSISTANTS

We hereby certify that we assisted
Surveyor - Forest Service,
[Forest Service Title.]

Frank D. Yost,
in surveying all those

parts or portions of Homestead Entry Survey No. **589**, 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.

H. E. Brandenburg
Chainman

H. H. Longfellow
Chainman

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 instructions 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 **No. 3-3892**, dated **Sept. 30**, 19**16**, for **Patent**, under the Act of **June 11**, 19**06**, the same to be known as Homestead Entry Survey No. **589** situated within the **TONTO** National Forest, in **un surveyed Section 28**, Township **10 N.**, Range **14 E.**, and **un surveyed Section 29**, Township **10 N.**, Range **14 E.**

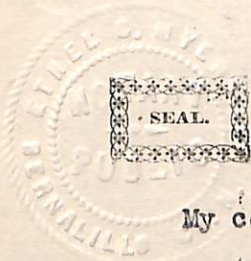
of the **GILA AND SALT RIVER BASE &** meridian, **ARIZONA**, and the related retracements and resurveys and section subdivisions, which are represented in the following field notes as having been surveyed by me; and I further solemnly swear that all the corners of said survey have been established and 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, C. N. Greer; Application No. 591, dated September 7, 1915; List No. 3-3892, dated September 30, 1916; H. E. 041376 made in the Phoenix Land Office on February 24, 1919, by Samuel W. Laughlin.

Surveyed under special instructions from the Surveyor General for Arizona, dated March 12, 1919, and designated as Homestead Entry Survey No. 589.

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 June 2, 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.

All courses of this survey were deflected from the meridian established by me at Cor. No. 4 of H. E. S. 587, by direct solar observation on May 30, 1919, in connection with the survey of H. E. S. 587.

June 2, 1919.

BOUNDARIES OF CLAIM

Beginning at Cor. No. 1, identical with Cor. H-4 of the list survey, which is a

Chains of sandstone 13 x 6 x 3 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 + 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, and 1 H E S. 589 in NE. quadrant; raise a mound of stone 3 ft. base, 2 ft. high, NE. of cor., whence:

A juniper 20 ins. dia., brs. N. 13° 48' W.,

44 lks. dist.

A juniper 24 ins. dia., brs. S. 67° 58' W.,

206 lks. dist.

Each blazed and scribed 1 H E S 589 + B T

The corner of Secs. 4, 5, 32 and 33, Ts. 9 N. and 10 N., R. 14 E., a granite porphyry stone, 10 x 8 x 8 ins. above ground, firmly set, mkd., and witnessed as described by the Surveyor General, brs. S. 20° 16' 11" E., 85.24 chs. dist., by traverse which appears at the end

of these notes.

Note: The 1/4 sec. cor. on the N. bdy. of Sec. 4, and the 1/4 sec. cor. on the N. bdy. of Sec. 5, T. 9 N., R. 13 E., were diligently searched for but no evidence of same was found.

Latitude 34° 10' 26" N., Long. 110° 55' 57" W., from

Special Instructions from the Surveyor General, and later verified.

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

Magnetic declination, 14° 26' E.

Thence N. 0° 10' W.,

Over level grassy mesa,

8.10 Edge of mesa; begin desc. of 60 ft. over steep rocky NW. slope, thru heavy oak brush.

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STATE OF ARIZONA

Chains
11.27 Wash, 60 lks. wide, banks, 4 ft. high, (dry), course SW.
Ascend 60 ft. over steep rocky SE. slope, thru heavy oak brush.

15.02 Top of ascent, on edge of mesa; thence across level grassy mesa.

19.95 To Cor. No. 2.
Identical with Cor. H-3 of the list survey, which is a sandstone 12 x 5 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 2 x 2 x 1 ins. marked with a + 17 ins. in the ground, over which set a limestone 24 x 6 x 4 ins. chiseled + for the point and 2 H E S 589 on SE. face; raise a mound of stone 3 ft. base, 2 ft. high, SE. of cor., whence:
A juniper 24 ins. dia., brs. N. 74° 01' W., 99 lks. dist.
A juniper 20 ins. dia., brs. N. 27° 08' E., 351 lks. dist.
Each blazed and scribed 2 H E S 589 + B T
Thence N. 89° 34' E.
Over level grassy mesa, thru scattering juniper.

19.95 To Cor. No. 3, which is also cor. No. 1 of H.E.S. 587.
Identical with Cor. H-3 of List No. 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. long, 2 ins. dia., with brass cap marked 1919 on S. rim, 3 H E S 589 in S. half and 1 H E S 587 in NE. quadrant; raise a mound of stone 3 ft. base, 2 ft. high, S. and

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Chains

NE. of cor., whence:

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 scribed 3 H E S 589 + B T

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

(Note: The above cor. was set and mkd. for both surveys
on May 30, 1919, in connection with H. E. S. 587.)

Thence S. 89° 38' E.

Over level grassy mesa, thru scattering juniper and
oak, along line 1-5 of H. E. S. 587.

40.02

To Cor. No. 4, which is also Cor. No. 5 of H.E.S. 587.

Identical with Cor. H-2 of List 3-3892, and with Cor.

H-4 of List 3-3893, which is a sandstone 14 x 6 x 5 ins.

above ground, marked and witnessed as described by the

Forest Service. I destroy all trace of this list cor.

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, 4 H E S 589 in SW. quadrant, and 5 H E S

587 in NW. quadrant, surrounded by a mound of stone 3

ft. base, 1-1/2 ft. high, to protect cor.; raise a

mound of stone 3 ft. base, 2 ft. high, NW. and SW. of

cor., whence:

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

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STATE OF ARIZONA

Chains

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
(Note: The above cor. was set and mkd. for both surveys
on May 30, 1919, in connection with H. E. S. 587.)

Thence S. 0° 12' W.,

Over mesa, thru thick oak and juniper.

7.47 Edge of mesa, Begin desc. of 40 ft., over steep rocky
SE. slope, thru heavy oak brush.

8.91 Bottom of descent; thence across level grassy bottom
land.

10.61 Wash, 70 lks. wide, banks 3 ft. high, (dry) course SW.

12.41 Begin ascent of 120 ft. to cor.

Over rocky NW. slope, thru heavy oak and pine timber,
and heavy brush.

20.01 To Cor. No. 5.

Identical with Cor. H-1 of the list survey, which is a
sandstone .8 x 4 x 2 ins. above ground, marked and wit-
nessed as described by the Forest Service. I destroy
all trace of this list cor.

Deposit a sandstone 4 x 3 x 1 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,
5 H E S 589 in NW. quadrant; raise a mound of stone
3 ft. base, 2 ft. high, NW. of cor., whence:

An oak 24 ins. dia., brs. N. 62° 49' E.,
10 lks. dist.

An oak 14 ins. dia., brs. N. 7° 13' W.,

77 lks. dist.

Each blazed and scribed 5 H E S 589 + B T

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Chains
 Thence N. 89° 52' W.
 Descend 135 ft., over a rocky NW. slope, thru heavy
 timber and brush.
 5.91 Bottom of desc. Thence across level grassy bottom land.
 11.07 Wash, 75 lks. wide, banks 3 ft. high, (dry), course
 S. 30° W.
 14.97 Begin asc. of 75 ft. over steep grassy SE. slope.
 18.47 Top of ascent. Thence across level grassy mesa.
 59.81 To Cor. No. 1, place of beginning.

AREA
 Total Area, - - - - - 120.22 Acres.

IMPROVEMENTS

The improvements made upon and for the benefit of this
 claim consist of the following:

A log house 18 x 25 ft., the long sides extend
 E. and W., the SE. cor. of which brs.
 from Cor. No. 5, N. 57° 07' W., 11.27 chs.

Value - - - - - \$ 150.00

A well 5 ft. dia., 20 ft. deep, center of which
 brs. from Cor. No. 5, N. 65° 51' W., 10.61
 chs. dist.

Value - - - - - \$ 50.00

Approximately 5/8 mile wire fencing,

Value - - - - - \$ 70.00

DESCRIPTION

Claim consists mostly of high level mesa land with
 scattering juniper and oak.
 The soil is a good loam, somewhat gravelly in spots.
 It contains also some six or eight acres of bottom land,

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Chains. soil of which is a rich dark loam.

Water for domestic purposes may be obtained from the well tho at the time of survey the water in the well was stagnant and unfit for use.

Approximately 85% of the claim can be cultivated, of which 14 acres were under cultivation at time of survey. There is no water available for irrigation.

There is no timber of commercial value on the claim.

I saw no indications of mineral on the claim.

There was no one living on the claim at the time of survey and the buildings showed no evidence of recent occupancy.

CONFLICTS AND ADJOINING CLAIMS

There are no conflicts. H.E.S. 587 adjoins on the North; line 1-5 thereof being identical with line 3-4 of this survey. H. E. S. 588 lies about 1/2 mile distant in a northeasterly direction and H. E. S. 590 lies about 3/8 mile to North. Note: H.E.S. 588 has been cancelled.

Young, Arizona, the nearest settlement and postoffice, is about six miles in a southerly direction.

TRAVERSE

Course	Dist.	N.	S.	E.	W.
N. 0° 10' W.	19.95	19.95			.06
N. 89° 34' E.	19.95	.15		19.95	
S. 89° 38' E.	40.02		.26	40.02	
S. 0° 12' W.	20.01		20.01		.07
N. 89° 52' W.	59.81	.14			59.81
	159.74	20.24	20.27	59.97	59.94
			20.24	59.94	
Error in Lat. and Dep.			.03	.03	

Closing Error, 1:3765.

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TONTON NATIONAL FOREST

STATE OF ARIZONA

Chains TIE FROM COR. NO. 1, H.E.S. 589 TO COR. OF SECTIONS 4, 5, 32 and 33, Ts. 9 and 10, R. 14 E. W.

Course	Dist.	N.	S.	E.	W.
S. 89° 52' E.	59.81		59.81		
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
	185.99	2.38	82.34	71.86	42.33

Resultant course, S. 20° 16' 11" E., 85.24 chs.

Survey completed June 12, 1919.

Frank Dyast, Surveyor - Forest Service

Surveyor - Forest Service, ...

Course	Dist.	N.	S.	E.	W.
S. 89° 52' E.	59.81		59.81		
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
	185.99	2.38	82.34	71.86	42.33
			79.96	29.53	

- 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. 589, STATE OF ARIZONA

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CORNERS.	BEARING.	DISTANCE.	LATITUDES.		DEPARTURES.		DOUBLE M. D.		N. AREAS.		S. AREAS.	
			NORTH.	SOUTH.	EAST.	WEST.						
1 - 2	N. 0-10 W.	19.95 ✓	19 95 ✓				06 ✓	06 ✓	1 20 ✓			
2 - 3	N. 89-34 E.	19.95 ✓	15 ✓		19 95 ✓			19 95 ✓	2 99 ✓			
3 - 4	S. 89-38 E.	40.02 ✓		26 ✓	40 02 ✓			79 91 ✓			19 98 ✓	
4 - 5	S. 0-12 W.	20.01 ✓		20 01 ✓			07 ✓	119 85 ✓			2398 20 ✓	
5 - 1	N. 89-52 W.	59.81 ✓	14 ✓				59 81 ✓	59 95 ✓	9 59 ✓			
		159.74 ✓	20 24 ✓	20 27 ✓	59 97 ✓	59 94 ✓			13 78 ✓		2418 18 ✓	
			20 26 ✓	20 24 ✓	59 94 ✓	59 94 ✓					13 78 ✓	
	Error in Lat. and Dep.			03	03						20/2404 40	
	Closing Error, 1:3765.										120 22	Acres. <i>ET</i>

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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.

589

executed by *Frank D. Gost, 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.

Frank D. Gost
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.