

**HES**

**0**

**0**

**5**

**7**

**8**

ORIGINAL

279

APR 26 1920

MAY 19 1920

U. S. DEPARTMENT OF AGRICULTURE  
FOREST SERVICE

FIELD NOTES

OF

HOMESTEAD ENTRY SURVEY NO. 578

SITUATED IN THE APACHE NATIONAL FOREST

ADMINISTRATIVE DISTRICT NO. 3

In Section 25 , un surveyed, Township 4 N., Range 31 E.

(Partly surveyed and accepted)

of the

GILA AND SALT RIVER BASE AND Meridian.

State of

ARIZONA

Applicant for listing	W. T. Johnson, ✓
Residence	Blue, Arizona.
Application No. 271	, dated March 27 , 19 13 ✓
List No. 3-2698	, dated August 11 , 19 13 ✓

Applicant for survey	William C. Martin,
Residence	Blue, Arizona.
H. E. No. 026912	, dated March 5 , 1915 ✓
Land <del>xxxxxx</del> Office,	Phoenix, Arizona.

Survey executed by	N. F. Newman, Surveyor - Draftsman, Forest Service, <small>[Forest Service Title.]</small>
Under special instructions dated	June 26 , 1918
Survey commenced	October 21 , 1919
Survey completed	October 23 , 1919
Under Acts of	June 11, 1906, and July 24, 1919.

280

OATH OF ASSISTANTS

We hereby certify that we assisted **N. F. Newman, Surveyor - Draftsman,**  
**Forest Service,** in surveying all those  
[Forest Service Title.]

parts or portions of Homestead Entry Survey No. **578**, 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, it was  
taken by the Surveyor.

*A. H. Longfellow*, Chairman,  
*Wm. S. Kimball*, Chairman,

Subscribed and sworn to before me this **23rd** day of  
**October**, 19 **19**.

*N. F. Newman*  
Surveyor - Draftsman, Forest Service,

OATH OF SURVEYOR

I, **N. F. Newman, Surveyor - Draftsman, 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  
**June 26**, 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. **3-2698**, dated **August 11, 1913**, for  
**Patent**, under the Act of **June 11**, 1906,  
the same to be known as Homestead Entry Survey No. **578**  
situated within the **APACHE** National Forest, in  
un surveyed Section **25**, Township **4 N.**, Range **31 E. (Partly Surveyed)**  
surveyed Section, Township, Range

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.

*N. F. Newman*  
Surveyor - Draftsman, Forest Service,  
[Forest Service Title.]

Subscribed and sworn to before me this **2nd** day of  
**February**, 19 **20**

*Ethel G. Myers*  
Notary Public,



8-2349

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

## APACHE NATIONAL FOREST

## STATE OF ARIZONA

Chains Applicant for listing, W. T. Johnson; Application No. 271, dated March 27, 1913; List No. 3-2698, dated August 11, 1913; H. E. 026912 made in the Phoenix Land Office on March 5, 1915, by William C. Martin.

Surveyed under Special Instructions from the Surveyor General for Arizona, dated June 26, 1918, and designated as Homestead Entry Survey No. 578.

Situated in Sec. 25, unsurveyed, T. 4 N., R. 31 E., (partly surveyed and accepted), Gila and Salt River Base and Meridian, Apache National Forest, Arizona.

The listing erroneously states the location of this claim as being in Sec. 25, T. 3-1/2 N., R. 31 E.)

Surveyed under the Acts of June 11, 1906 and July 24, 1919.

Survey commenced October 21, 1919, and executed with a Buff and Buff transit No. 10802, 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.

October 22, 1919.

At my station, which is 15 chs. West and 10 chs. North of Cor. No. 1 of this survey, hereinafter described, in Lat.  $33^{\circ} 39' 46''$  N., Long.  $109^{\circ} 05' 45''$  W., from Forest Service Base Map, at 5h. 30.m. p.m., l.m.t., I observe Polaris at Eastern elongation with telescope both direct and reversed, reading an angle of  $97^{\circ} 00'$  from star to left to a reference mark, the top of a dead tree about 3 miles dist.

Azimuth of Polaris at E. elong.  $1^{\circ} 21' 54''$  E. Mean

## APACHE NATIONAL FOREST

STATE OF ARIZONA

Chains

bearing of reference mark as determined from the two obsns. is S.  $84^{\circ} 20' 54''$  W. I accept bearing of reference mark as S.  $84^{\circ} 21'$  W.

From the meridian thus determined all the courses of this survey were deflected by sustained angulation.

## RETRACEMENT AND RESURVEY

October 21, 1919.

The following retracement was run on an assumed azimuth and subsequently corrected to the meridian as above determined.

Beginning at the Cor. of Secs. 25, 26, 35 and 36, T. 4 N., R. 31 E., a malpais stone 10 x 8 x 6 ins. above ground, firmly set, marked and witnessed as described by the Surveyor General.

Thence S.  $89^{\circ} 55'$  E.

Retracing line bet. Secs. 25 and 36.

39.90 After careful search fail to find any trace of 1/4 cor. bet. Secs. 25 and 36, which has apparently been washed away by high flood waters.

79.46 Fall 12 lks. N. of Cor. of Secs. 25, 30, 31 and 36, which is a malpais stone 12 x 3 x 8 ins. above ground, firmly set, marked and witnessed as described by the Surveyor General.

October 21, 1919.

October 22, 1919.

Thence N.  $89^{\circ} 50'$  W.

On a true line bet. Secs. 25 and 36, E/2.

39.73 Proportionate point for 1/4 sec. cor. determined from the following proportion: 79.80 : 79.46 :: 39.80 : 39.73.

Point for cor. falls on a malpais boulder showing 20 x 16 x 12 ins. above

APACHE NATIONAL FOREST

STATE OF ARIZONA

Chains ground. I chisel boulder + for the point and 1/4 on N. face; and raise a mound of stone 3 ft. base, 2 ft. high N. of cor., whence:  
 A pine 18 ins. dia. blazed and scribed  
 1/4 S 36 + B T, bears S. 38°06' W., 270 lks. dist.  
 No other witnesses available. Pits impracticable.

59.60 Set temp. point for Cor. No. 2 of this survey.

79.46 Cor. of Secs. 25, 26, 35 and 36, heretofore described.

79.8: 79.46 = 39.9: X = 39.73

BOUNDARIES OF CLAIM

Beginning at Cor. No. 1,  
 Identical with the 1/4 cor. bet. secs. 25 and 36, heretofore described. I adopt 1/4 cor. for Cor. No. 1 of this survey and alongside set a granite stone 20x10x6 in. 12 ins. in ground, chiseled 1 H E S 578 on NW. face, whence:  
 A pine 18 ins. dia., bears S. 38°06' W., 270 lks. dist., blazed and scribed 1 H E S 578  
 1/4 S 36 + B T  
 A cottonwood 14 ins. dia., bears S. 88°45' W., 254 lks. dist., blazed and scribed 1 H E S 578 + B T  
 Lat. 33°39'40" N., Long. 109°05'34" W., from Forest Service Base Map.  
 Mag. decl. at 1h. 00m. p.m., l.m.t., is 13°46' E.,  
 Mean mag. decl. 13°48' E.  
 Thence N. 89°50' W.  
 Along line bet. secs. 25 and 36.  
 4.50 Road, bears NW. and SE.  
 4.80 Rail fence, bears NW. and SE. Enter orchard.  
 13.05 Wire fence, bears N. and S. Leave orchard.  
 Ascend 80 ft. to cor. over gentle NE. slope, thru pinon and juniper.  
 19.87 To Cor. No. 2, and closing cor. on line bet. secs. 25

Chains

and 36.

Deposit a sandstone 4 x 3 x 3 ins. marked with a + 20 ins. in the ground, over which set a sandstone 28 x 10 x 3 ins. chiseled + for the point, 2 H E S 578 on NE. face, and C C on N. face; and raise a mound of stone 2 ft. base, 1-1/2 ft. high, N. of cor., whence:

A juniper 16 ins. in dia., scribed C C 2 H E S 578 + B T, bears N. 45°35' W., 29 lks. dist.

A juniper 15 ins. dia., scribed C C 2 H E S 578 + B T, bears N. 75°15' E., 66 lks. dist.

1/4 cor. bet. secs. 25 and 36 heretofore described bears S. 89°50' E., 19.87 chs.

Cor. to secs. 25, 26, 35 and 36 heretofore described bears N. 89°50' W. 19.86 chs.

Thence North,

Along gentle E. slope, in pinon and juniper timber.

2.87 Leave timber. Descend steep NE. slope, 80 ft. to Blue River.

5.75 Right bank Blue River, banks 2 ft. high, water 1 ft. deep, course SE.

6.25 Left bank Blue River, banks 2 ft. high, water 1 ft. deep, course SE.

Thence across river bottom.

7.00 Road, bears E. and W.

12.00 Road, bears NE. and SW.

14.00 Left bank Blue River, bank 1 ft. high, water 1 ft. deep, course SW.

14.94 Right bank Blue River, bank 1 ft. high, water 1 ft. deep, course SW.

Ascend 20 ft. to cor. over gentle SE, slope, thru pinon and juniper.

20.00 To Cor. No. 3.

Deposit a porphyry stone 5 x 5 x 1 ins. marked with a

CHAPACHE NATIONAL FOREST

STATE OF ARIZONA

Chains	<p>+ 18 ins. in the ground, over which set a sandstone 24 x 10 x 6 ins. chiseled + for the point and 3 H E S 578 on SE. face; and raise a mound of stone 3 ft. base, 2-1/2 ft. high, SE. of cor., whence:</p> <p>A juniper 16 ins. dia., brs. N. 3° 51' E., 37 lks. dist.</p> <p>A juniper 14 ins. dia., brs. S. 62° 32' E., 78 lks. dist.</p> <p>Each blazed and scribed 3 H E S 578 + B T.</p> <p>October 22, 1919.</p> <hr/> <p>October 23, 1919.</p> <p>Thence S. 89° 51' E.</p> <p>Descend 20 ft. over gentle SE. slope, through pinon and juniper.</p> <p>4.05 Road, bears N. and S.</p> <p>5.50 Right bank Blue River, banks 2 ft. high, water 1 ft. deep, course S. - Bottom of desc. -</p> <p>5.80 Left bank Blue River, banks 2 ft. high, water 1 ft. deep, course S. Thence over bottom land.</p> <p>10.50 Leave bottom land. Asc. 80 ft. over steep NW. slope, thru pinon and juniper.</p> <p>16.13 Enter bench. Ascend 20 ft. over gentle W. slope, to corner.</p> <p>19.87 To Cor. No. 4.</p> <p>Deposit a malpais stone 3 x 3 x 2 ins. marked with a + 6 ins. in the ground on solid rock, over which set a malpais stone 30 x 8 x 6 ins. chiseled + for the point and 4 H E S 578 on SW. face; and raise a mound of stone 3 ft. base, 2 ft. high, around cor., whence:</p> <p>A juniper 8 ins. dia., brs. N. 80° 27' W., 38 lks. dist.</p> <p>A juniper 10 ins. dia., brs. S. 0° 05' W.,</p>
--------	--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------



HOMESTEAD ENTRY SURVEY NO. 578

APACHE MOUNT NATIONAL FOREST

STATE OF ARIZONA.

Chains

59 lks. dist. Each blazed and scribed 4. H E S 578 + B T

Each blazed and scribed 4. H E S 578 + B T

Thence South, Descend 100. ft. over rocky S. slope, thru pinon and juniper.

11.68 Cor. fence, bears West 2.25 chs. Fence bears NW. and S.

12.80 Foot descent. Leave timber. Thence across bottom land.

14.56 Cor. fence bears west 2.50 chs. Fence bears W. and N.

15.60 Left bank Blue River, bank 6 ft. high, water 1 ft. deep,

course SE.

15.90 Right bank Blue River, bank 1 ft. high, water 1 ft. deep,

course SE.

19.99 To Cor. No. 1, the point of beginning.

AREA

Total area - - - - - 39.73 Acres.

IMPROVEMENTS

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

A frame house, 16 ft. N. and S., and 40 ft.

E. and W., the NW. cor. of which bears from Cor. No. 3, S. 28° 44' E., 10.90 chs. dist.

Value - - - - - \$ 600.00

A frame house, 14 ft. N. and S., and 25 ft.

E. and W., the SW. cor. of which bears from Cor. No. 3, S. 31° 03' E., 11.65 chs. dist.

Value - - - - - \$ 200.00

A frame storehouse, 8 ft. N. and S., and 15 ft.

APACHE NATIONAL FOREST

STATE OF ARIZONA.

Chains

E. and W., the NW. cor. of which bears  
from Cor. No. 3, S. 31° 08' E., 10.85  
chs. dist.

Value - - - - - \$ 100.00

A log barn, 15 ft. N. and S., and 25 ft. E.  
and W., the SW. cor. of which bears from  
Cor. No. 3, S. 21° 25' E., 10.41 chs. dist.

Value - - - - - \$ 50.00

A frame and sheet iron hay shed, 15 ft. N. and  
S., and 30 ft. E. and W., the NW. cor. of  
which bears from Cor. No. 3, S. 25° 33' E.,  
14.45 chs. dist.

Value - - - - - \$ 300.00

A log chicken coop, 8 ft. N. and S., and 10 ft.  
E. and W., the SW. cor. of which bears  
from Cor. No. 3, S. 45° 45' E., 14.07 chs.  
dist.

Value - - - - - \$ 25.00

A well 30 ft. deep, the center of which bears  
from Cor. No. 3, S. 29° 20' E., 10.92 chs.  
dist.

Value - - - - - \$ 50.00

A pole corral, 75 ft. N. and S., and 50 ft.  
E. and W., the SW. cor. of which bears  
from Cor. No. 3, S. 32° 58' E., 8.82 chs.  
dist.

Value - - - - - \$ 25.00

About one half mile of wire fence,

Value - - - - - \$ 75.00

APACHE NATIONAL FOREST

STATE OF ARIZONA

Chains

DESCRIPTION

This homestead is situated in the canyon of the Blue River, at an elevation of approximately 5900 ft.

The soil is a sandy loam and produces good crops of alfalfa, corn and garden produce. There are about four acres under cultivation.

Water for domestic use is obtained from a well near the house.

There is no timber of commercial value on the claim.

I saw no indication of mineral upon this claim.

CONFLICTS AND ADJOINING CLAIMS

There are no conflicts. The patented homestead of H. P. Martin adjoins this claim on the south.

Blue, Arizona, the nearest postoffice, is about 4 miles south.

Alpine, Arizona, is 18 miles north and Luna, New Mexico is about 18 miles NE.

TRAVERSE

Course	Dist.	N.	S.	E.	W.
N. 89° 50' W.	19.87	.06			19.87
North	20.00	20.00			
S. 89° 51' E.	19.87		.05	19.87	
South	19.99		19.99		
	79.73	20.06	20.04	19.87	19.87
		20.04		19.87	
Error in Lat. and Dep.		.02		.00	

Closing Error, 1:3987

Survey completed October 23, 1919.

*H. F. Newman*

Surveyor-Draftsman, Forest Service,

- 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. 578, STATE OF Arizona

8-2349

CORNERS.	BEARING.	DISTANCE.	LATITUDES.		DEPARTURES.		DOUBLE M. D.	N. AREAS.		S. AREAS.	
			NORTH.	SOUTH.	EAST.	WEST.					
100- 200	N. 89-50 W.	19.87	06		19 87		19 87	1 19			
200 - 3	North	20.00	<sup>19 99</sup> 20 00				00	00			
3 - 4	S. 89-51 E.	19.87		05	19 87		19 87			99	
4 - 100	South	19.99		<sup>20 00</sup> 19 99			39 74			794 80	
		79.73	20 06	20 04	19 87	19 87		1 19		795 79	
			<sup>20 03</sup> 20 04	<sup>20 03</sup>	19 87					1 19	
	Error in Lat. and Dep.		02		00					20/794 60	
	Closing Error, 1:3987									39.73 Acres.	ET

289

APPROVAL

Office of the United States Surveyor General,

**Phoenix, Arizona**, May 26, 1920

The foregoing field notes of Homestead Entry Survey No.

578

executed by *G. E. Newman, Surveyor-Draftsman* [Forest Service Title.]  
under his special instructions, dated *June 26*, 1918, 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.