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ORIGINAL

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U. S. DEPARTMENT OF AGRICULTURE  
FOREST SERVICE

DEC-8-1919  
MAY-7-1920

FIELD NOTES

OF

HOMESTEAD ENTRY SURVEY NO. 577

SITUATED IN THE TONTO NATIONAL FOREST

ADMINISTRATIVE DISTRICT NO. 3

In Section 23 , un surveyed, Township 11 N., Range 10 E.  
In Section 24 , un surveyed, Township 11 N., Range 10 E.

of the

GILA AND SALT RIVER BASE & Meridian.

State of  
ARIZONA

Applicant for listing Elmer Powers,  
Residence Payson, Arizona.  
Application No. 477 , dated May 16 , 19 14 ✓  
List No. 3-3339 , dated September 23, 19 14 ✓

Applicant for survey Eugene C. Holder, ✓  
Residence Payson, Arizona.  
H. E. No. 035953 , dated August 7 . 19 17 ✓  
Land Office Phoenix, Arizona. ✓

Survey executed by Frank D. Yost, Surveyor - Forest Service, ✓  
Under special instructions dated May 23 , 19 18 ✓  
Survey commenced April 16. 19 19  
Survey completed April 17. 19 19

Under Acts of June 11, 1906, and October 1, 1918.

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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. **577**, 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. Brandebury*  
Chainman.

*H. H. Longfellow*  
Chainman.

Subscribed and sworn to before me this **6th** 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 **May 23**, 19**18**, 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 3-3339, dated September 23, 1914, and a tract of unlisted land upon the Application of Elmer Powers,

Application No. **477**, dated **May 16**, 19**14**, for Listing and Patent, under the Act of **June 11**, 1906, the same to be known as Homestead Entry Survey No. **577**, situated within the **TONTO** National Forest, in unsurveyed Section **23**, Township **11 N.**, Range **10 E.**, and unsurveyed Section **24**, Township **11 N.**, Range **10 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**.

*Estel G. Myers*  
Notary Public.



My commission expires March 17, 1921.

TONTO NATIONAL FOREST

STATE OF ARIZONA

Chains

Applicant for listing, Elmar Powers; Application No. 477, dated May 16, 1914; List No. 3-3339, dated September 23, 1914; H. E. 035953 made in the Phoenix Land Office on August 7, 1917 by Eugene C. Holder.

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. This is therefore a composite survey.

Surveyed under special instructions from the Surveyor General for Arizona, dated May 23, 1918, and designated as Homestead Entry Survey No. 577.

Situated in what will probably be when surveyed Secs. 23 and 24, T. 11 N., R. 10 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 April 16, 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.

April 16, 1919.

At Cor. No. 1 of this survey, hereinafter described, at 6h 40.3m p.m. l.m.t., I observe Polaris with telescope direct reading an angle of 54° 04' 15" from star to left to a reference mark about 1 mile dist.

Chains ✓ Lat.  $34^{\circ} 17' 11''$  N., Long.  $111^{\circ} 17' 15''$  W., from  
 Special Instructions from the Surveyor General and  
 later verified.  
 Greenwich m.t. U.C. Pol. April 16, 1919, 11h 56.3m. a.m.  
 Corr. for long., 1.2  
 l.m.t. U. C. Pol., April 16, 1919, 11h 55.1m. a.m.  
 l.m.t. obsn. Pol., April 16, 1919, 6h 40.3m. p.m.  
 Hour Angle ✓ 6h 45.2m  
 Azimuth of Polaris  $1^{\circ} 19' 48''$  W.,  
 Bearing of Reference mark, N.  $55^{\circ} 24' 03''$  W.

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At the same station at 6h 41.9m p.m., I again observe  
 Polaris with telescope reversed reading an angle of  
 $54^{\circ} 04' 15''$  from star to left to same reference mark.  
 l.m.t. U.C. Pol. April 16, 1919, 11h 55.1m a.m.  
 l.m.t. obsn. Pol. April 16, 1919, 6h 41.9m p.m.  
 Hour Angle, ✓ 6h 46.8m  
 Azimuth of Polaris,  $1^{\circ} 19' 39''$  W.

Bearing of reference mark, N.  $55^{\circ} 23' 54''$  W. ✓  
 The two obsns. give a mean bearing of reference mark  
 as N.  $55^{\circ} 23' 58''$  W. I accept bearing of reference  
 mark as N.  $55^{\circ} 24' 00''$  W. and to the corresponding meridian  
 all courses of this survey were referred by sustained  
 angulation.

April 16, 1919.

BOUNDARIES OF CLAIM

April 17, 1919.

Beginning at Cor. No. 1,  
 Deposit a sandstone 3 x 2 x 1 ins. marked with a + 24  
 ins. in the ground, on solid rock, over which set an  
 iron post 2 ins. dia., 36 ins. long, with brass cap  
 marked 1919 on S. rim and 1 H E S 577 in portion of

HOMESTEAD ENTRY SURVEY NO. 577

TONTO NATIONAL FOREST

STATE OF ARIZONA

Chains. circle facing claim; raise a mound of stone 3 ft. base,  
2 ft. high, SW. of cor., whence:  
A juniper 12 ins. dia., brs. N. 30° 25' W.,  
352 lks. dist.  
A juniper 14 ins. dia., brs. N. 49° 10' E.,  
152 lks. dist.  
Each blazed and scribed 1 H E S 577 + B T  
Cor. to Secs. 13, 18, 19 and 24, T. 11 N., Rs.  
10 and 11 E. (accepted), a basalt stone 12  
x 18 x 10 ins. above ground, marked and wit-  
nessed as described by the Surveyor General,  
bears N. 74° 44' 12" E., 61.39 chs. dist.  
by traverse which appears at the end of these  
notes. Lat. 34° 17' 11" N., Long. 111° 17' 15" W., from  
Special Instructions from the Surveyor General and  
later verified.  
Mag. decl. at 8 a.m. is 14° 30' E. Mean Mag.  
decl. is 14° 27' E.  
Thence S. 2° 42' E.  
Over level mesa thru scattering juniper and pinon.  
Over unlisted land.  
1.60 Fence, bears E. and W.  
13.52 Wire fence, bears N. 4° E. and S. 4° W.  
13.60 To Cor. No. 2.  
Identical with Cor. H-4 of the list survey, which is a  
red sandstone 14 x 8 x 3 ins. above ground, marked and  
witnessed as described by the Forest Service. I de-  
stroy all trace of this list cor.  
Deposit a sandstone 3 x 3 x 2 ins. marked with a +.24  
ins. in the ground, over which set an iron post 2 ins.  
dia., 36 ins. long, with brass cap, marked 1919 in S.  
rim and 2 H E S 577 in portion of circle facing claim;

Chains raise a mound of stone 3 ft. base, 2 ft. high, W. of cor., whence:

A juniper 14 ins. dia., brs. N. 32° 20' W.,  
5 lks. dist. (Tree forms cor. of wire fence;  
fences bear N. 4° E. and S. 40° W.)

A pinon 10 ins. dia., brs. N. 87° 14' W.,  
85 lks. dist.

Each blazed and scribed 2 H E S 577 + B T

Thence S. 33° 45' W.

Over level mesa, thru scattering juniper and pinon,  
over listed land.

37.28 To Cor. No. 3,

Identical with Cor. H-1 of the list survey, which is an  
embedded red sandstone boulder 6 x 4 x 3 ft. above  
ground, marked and witnessed as described by the Forest  
Service. I destroy all marks of the list cor., and  
chisel same boulder + for the point and 3 H E S 577  
on sloping North face, for Cor. No. 3 of this survey;  
raise a mound of stone 3 ft. base, 2-ft. high, N. of  
cor., whence:

An oak 12 ins. dia., brs. N. 85° 45' E.,  
36 lks. dist.

A juniper 4 ins. dia., brs. S. 38° 41' W.,  
116 lks. dist.

Each blazed and scribed 3 H E S 577 + B T

Thence N. 55° 48' W.

Over level open mesa, thru scattering juniper and pinon.

15.28 To Cor. No. 4.

Deposit a sandstone 3 x 3 x 2 ins. marked with a + 14  
ins. in the ground, over which set a red sandstone  
24 x 14 x 4 ins. chiseled + for the point and 4 H E S

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STATE OF ARIZONA

Chains

577 on NE. face; raise a mound of stone 3 ft. base,  
2 ft. high, NE. of cor., whence:

A juniper 48 ins. dia., brs. N. 33° 35' E.,  
14 lks. dist. (Tree is cor. of fence,  
fences bear East and N. 1° 49' E. along  
line.)

A juniper 30 ins. dia., brs. S. 49° 13' E.,  
291 lks. dist.

Each blazed and scribed 4 H E S 577 + B T

Cor. H-2 of the list survey, which is a red  
sandstone 18 x 10 x 6 ins. above ground,  
marked and witnessed as described by the  
Forest Service, bears N. 55° 48' W.,

501 lks. dist. I destroy all trace of  
this list cor.

Thence N. 1° 49' E.

Along edge of mesa, thru scattering juniper and pinon,  
fence parallels line inside claim, 14 lks. dist.

28.20 Cor. wire fence, bears S. 85° E., 5 lks. dist., fences  
bear S. 85° E., S. 1° 49' W. and N. 1° 49' E., along  
line.

30.57 To Cor. No. 5,

Identical with Cor. H-3 of the list survey, which is  
a red sandstone 26 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 red sandstone 4 x 3 x 2 ins. marked with a +  
20 ins. in the ground, over which set a red sandstone  
30 x 12 x 4 ins. chiseled + for the point and 5 H E S  
577 on E. face; raise a mound of stone 3 ft. base, 2 ft.  
high E. of cor., whence:



HOMESTEAD ENTRY SURVEY NO. 577

TONTON NATIONAL FOREST

STATE OF ARIZONA

Chains

A cedar 50 ins. dia., brs.; N. 39° 35' W.,

85 lks. dist.

A cedar 10 ins. dia., brs. S. 45° 00' W.,

123 lks. dist.

Each blazed and scribed 5 H E S 577 + B T

Cor. wire fence, bears East, 4 lks. dist.;

fences bear S. 11° 49' W. and N. 18° 32' E.

Note: The area West of line 4-5, (which was included in the original listing) is heavily wooded hillside and was eliminated from this survey upon request of the claimant.

Thence N. 18° 32' E.,

Along edge of mesa, thru scattering juniper and pinon.

Wire fence along line inside claim; over unlisted land.

7.97 Cor. wire fence; fence bears S. 75° E. and along line.

13.38 To Cor. No. 6,

Deposit a sandstone 4 x 3 x 2 ins. marked with a + 16 ins. in the ground, over which set a red sandstone

26 x 10 x 10 ins. chiseled + for the point and 6 H E S

577 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. 43° 09' E.,

184 lks. dist.

A juniper 20 ins. dia., brs. N. 36° 48' W.,

297 lks. dist.

Each blazed and scribed 6 H E S 577 + B T

Cor. wire fence bears S. 87° E., 6 lks. dist.,

from which fences bear S. 18° 32' W. and

N. 46° 45' E.

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Chains ✓ Thence N. 46° 45' E.,  
 Along edge of mesa, thru scattering juniper and oak,  
 Over unlisted land. Fence parallels line 6 lks. dist.

12.77 ✓ To Cor. No. 7,  
 Deposit a sandstone 3 x 2 x 1 ins. marked with a + 18  
 ins. in the ground, over which set a grey limestone  
 28 x 8 x 6 ins. chiseled + for the point and 7 H E S  
 577 on S. face; raise a mound of stone 3 ft. base, 2 ft.  
 high S. of cor., whence:  
 A juniper 6 ins. dia., brs. S. 59° 05' E.,  
 90 lks. dist.  
 A juniper 18 ins. dia., brs. S. 31° 40' W.,  
 118 lks. dist.  
 Each blazed and scribed 7 H E S 577 + B T  
 Cor. fence bears South, 7 lks. dist., from  
 which fences bear S. 46° 45' W. and S. 44° 09' E.

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Thence S. 48° 31' E.  
 Over level open mesa,  
 Over unlisted land, Fence along line inside claim.  
 3.21 ✓ Cor. wire fence, fence bears South and along line.

24.28 ✓ To Cor. No. 1, the place of beginning.

AREA

Listed Area	-----	78.30 Acres
Unlisted Area	-----	56.16 Acres
Total Area	-----	134.53 Acres

IMPROVEMENTS

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

A frame house 20 x 30 ft., the long sides

Chains

extending E. and W., the NW. cor. of which bears S. 15° 02' E., 6.22 chs. dist. from cor. No. 5.

Value - - - - - \$300.00

A frame barn 30 x 40 ft., the long sides extending E. and W., the NW. cor. of which bears S. 1° 31' W., 2.40 chs. dist. from Cor. No. 5.

Value - - - - - \$450.00

A dug well 8 ft. dia., 85 ft. deep, (dry), the center of which bears S. 25° 07' E., 8.07 chs. dist. from Cor. No. 5,

Value - - - - - \$400.00

Approximately 3-1/2 miles of wire fence,

Value - - - - - \$600.00

DESCRIPTION

The claim is located on a flat open mesa, known as Houston Mesa, and has a gradual slope to North and West. The soil is a loose sandy loam of good depth and very fertile, and will grow good crops of hay, grain and vegetables. The rainfall is depended upon to grow crops. . . Approximately 65 percent of the claim can be cultivated, of which about 50 acres were under cultivation at the time of survey.

There is no water on the claim and prospects of developing water are very unfavorable. Water for domestic use is obtained from a spring about 1/4 mile distant, located in the gulch which lies to the West of this claim.

There is no timber of commercial value on the claim. No indications of mineral were observed on the claim.

TONTON NATIONAL FOREST

STATE OF ARIZONA

Chains

CONFLICTS AND ADJOINING CLAIMS

There are no conflicts or adjoining claims. H.E.S. 575 lies about 1/2 mile in a northeasterly direction. Payson, Arizona, the nearest settlement and postoffice, is about 5 miles in a southwesterly direction.

TRAVERSES

Course	Dist.	N.	S.	E.	W.
S. 2° 42' E. ✓	13.60		13.58	.64	
S. 33° 45' W. ✓	37.28		31.00		20.71
N. 55° 48' W. ✓	15.28	8.59			12.64
N. 1° 49' E. ✓	30.57	30.55		.97	
N. 18° 32' E. ✓	13.38	12.69		4.25	
N. 46° 45' E. ✓	12.77	8.75		9.30	
S. 48° 31' E. ✓	24.28		16.08	18.19	
	147.16	60.58	60.66	33.35	33.35
			60.58	33.35	
Error in Lat. and Dep.			.08	.00	

Closing Error, 1:1839

TIE FROM COR. NO. 1 TO COR. OF SECS. 13, 18, 24 and 19, T. 11 N., R. 10 AND 11 E.

Course	Dist.	N.	S.	E.	W.
N. 87° 33' E.	9.03	.39 ✓		9.02 ✓	
S. 72° 13' E.	5.35		1.63 ✓	5.09 ✓	
S. 40° 44' E.	2.94		1.92 ✓	2.23 ✓	
N. 71° 12' E.	5.57	1.80 ✓		5.27 ✓	
S. 59° 43' E.	6.87		3.46 ✓	5.93 ✓	
N. 74° 11' E.	2.46	.67 ✓		2.37 ✓	
N. 66° 56' E.	6.09	2.39 ✓		5.60 ✓	
S. 77° 19' E.	11.07		2.43 ✓	10.80 ✓	
N. 74° 32' W.	1.38	.37 ✓			1.33 ✓
N. 8° 26' E.	14.20	14.05 ✓		2.08 ✓	
N. 38° 00' E.	3.67	2.26 ✓		2.89 ✓	
N. 40° 05' E.	8.02	6.14 ✓		5.16 ✓	
S. 58° 58' E.	4.80		2.47 ✓	4.11 ✓	
		28.07 ✓	11.91 ✓	60.55 ✓	1.33 ✓
		11.91 ✓		1.33 ✓	
		16.16 ✓		59.22 ✓	

Resultant course, N. 74° 44' 12" E., 61.39 chs.

Survey completed April 17, 1919.

*Frank Dyot*  
Surveyor- Forest Service,



DEC 15 1919

April 17, 1919.

I, Eugene C. Holder, Hereby agree to the survey of my homestead, number 577, as made on 17th day of April, 1919, by Forest Service Surveyor Frank D. Yost, and further agree that when notified that the survey has been approved and before attempting to make final proof on my entry, I will apply for amendment of the same to conform with said survey.

The changes made by the surveyor are excluding  
some non-agricultural land not desired by me and in-  
cluding agricultural land desired.

(Sgd.) L. E. Boardman,  
\_\_\_\_\_

(Sgd.) Eugene C. Holder,  
\_\_\_\_\_

Witness

Claimant,

- DIRECTIONS.—1. Carry out calculation 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. 577, STATE OF ARIZONA

8-2740

CORNERS.	BEARING.	DISTANCE.	LATITUDES.		DEPARTURES.		DOUBLE M. D.	N. AREAS.	S. AREAS.	
			NORTH.	SOUTH.	EAST.	WEST.				
1 - 2	S. 2-42 E.	✓ 13.60		✓ 13 <sup>57</sup> 58	64 ✓		66 06		896 43 ✓	
2 - 3	S. 33-45 W.	✓ 37.28		✓ 30 <sup>98</sup> 00		20 71 ✓	45 99		1424 77 ✓	
3 - 4	N. 55-48 W.	✓ 15.28	8 60 ✓			12 64 ✓	12 64	108 70 ✓		
4 - 5	N. 1-49 E.	✓ 30.57	30 57 ✓		97 ✓		97	29 65 ✓		
5 - 6	N. 18-32 E.	✓ 13.38	12 69 ✓		4 25 ✓		6 19	78 61 ✓		
6 - 7	N. 46-45 E.	✓ 12.77	8 75 ✓		9 30 ✓		19 74	172 72 ✓		
7 - 1	S. 48-31 E.	✓ 24.28		✓ 16 08	18 19 ✓		47 23		758 99 ✓	
		147.16 ✓	60.58 ✓	60 66 ✓	33.35 ✓	33 35 ✓		389 68 ✓	3080 19 ✓	
			60 62	60 62	33 35	33 35			389 68 ✓	
	Error in Lat. and Dep.			08 ✓		00 ✓			20/2690 51 ✓	
	Closing Error, 1:1839								134 53 ✓	Acres.

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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. 577, STATE OF ARIZONA

6-2349

CORNERS.	BEARING.	DISTANCE.	LATITUDES.		DEPARTURES.		DOUBLE M. D.	N. AREAS.	S. AREAS.
			NORTH.	SOUTH.	EAST.	WEST.			
TRAVERSE OF UNLISTED AREA									
	N. 18-32 E. ✓	13.38	12 69 ✓		4 25 ✓		4 25	53 93 ✓	
	N. 46-45 E. ✓	12.77	8 75 ✓		9 30 ✓		17 80	155 75 ✓	
	S. 48-31 E. ✓	24.28		16 08 ✓	18 19 ✓		45 29		728 26 ✓
	S. 2-42 E. ✓	13.60		13 58 ✓	64 ✓		64 12		870 75 ✓
	N. 75-45 W. ✓	33.41	8 22 ✓			32 38 ✓	32 38	266 16 ✓	
			29 66 ✓	29 66 ✓	32 38 ✓	32 38 ✓		475 84 ✓	1599 01
								475 84 ✓	
								20/1123 17	
								56 16	Acres

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APPROVAL

Office of the United States Surveyor General,

Phoenix, Arizona, May 10, 1920

The foregoing field notes of Homestead Entry Survey No.

577

executed by *Frank D. Gost, Surveyor* [Forest Service Title.]  
under his special instructions, dated *May 23*, 1918, 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.