

**ORIGINAL**

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U. S. DEPARTMENT OF AGRICULTURE  
FOREST SERVICE

**FIELD NOTES**

AUG 2 - 1917

OF

HOMESTEAD ENTRY SURVEY NO. 480

MAR 25 1918

SITUATED IN THE **APACHE** NATIONAL FOREST

ADMINISTRATIVE DISTRICT NO. 3

- In Section 2 , unsurveyed, Township 4 N., Range 29 E.
- In Section 3 , unsurveyed, Township 4 N., Range 29 E.
- In Section 34 , unsurveyed, Township 4 $\frac{1}{2}$  N., Range 29 E.
- In Section 35 , unsurveyed, Township 4 $\frac{1}{2}$  N., Range 29 E.

of the

Gila and Salt River Base and Meridian.

State of

ARIZONA

Applicant for listing **Elva Shoop,**

Residence **Alpine, Arizona**

Application No. **277** , dated **April 25** , 1913 ✓

List No. **3-2904** ✓ , dated **November 13** , 1913 ✓

Applicant for survey **Elva Shoop,**

Residence **Alpine, Arizona**

H. E. No. **024740** , dated **April 25** , 1914 ✓

Office **Phoenix, Arizona**  
Land District

Survey executed by **R. P. A. Johnson,** Surveyor - Draftsman  
[Forest Service Title.]

Under special instructions dated **June 21** , 1916 ✓

Survey commenced **September 6** , 1916

Survey completed **September 10** , 1916

Under Acts of **June 11, 1906 and August 11, 1916** ✓

12-14-17 Pat.

OATH OF ASSISTANTS

We hereby certify that we assisted R. P. Johnson in surveying all those parts or portions of Homestead Entry Survey No. 480, 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.

Chester G. Lee, Chairman  
Howard B. Tacketts, Chairman

Subscribed and sworn to before me this twenty seventh day of September, 1916.

R. P. Johnson  
Surveyor Draftsman

OATH OF SURVEYOR

I, R. P. Johnson, Surveyor Draftsman do solemnly swear that, in strict conformity with the special instructions of the United States Surveyor General for Arizona, dated June 21, 1916, 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. 3-2904, dated September 13, 1913, for patent, under the Act of June 11, 1906, the same to be known as Homestead Entry Survey No. 480, situated within the APACHE National Forest, in

unsurveyed Section 34, Township 4 1/2 N., Range 29 E., and unsurveyed Section 35, Township 4 1/2 N., Range 29 E., unsurveyed Section 2, Township 4 N., Range 29 E. and unsurveyed Section 3, Township 4 N., Range 29 E. and

of the Gila and Salt River 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.

R. P. Johnson  
Surveyor Draftsman

Subscribed and sworn to before me this twelfth day of April, 1917.

Echel M. Gutchall  
Notary Public



My Commission expires Mar. 17 1921

HOMESTEAD ENTRY SURVEY NO. 480

APACHE NATIONAL FOREST

STATE OF ARIZONA

Chains

Applicant for listing, Elva Shoop; Application No. 277, dated April 25, 1913; List No. 3-2904, dated November 13, 1913; H. E. 024740, made in the Phoenix Land Office on April 25, 1914 by Elva Shoop.

Surveyed under special instructions from the Surveyor General for Arizona, dated June 21, 1916 and designated as Homestead Entry Survey No. 480.

Situated in what will probably be, when surveyed, Secs. 34, 35, T. 4 1/2 N., R. 29 E. and secs. 2, 3, T. 4 N., R. 29 E., Gila and Salt River Base and Meridian, within the Apache National Forest, Arizona.

Surveyed under the Acts of June 11, 1906 and August 11, 1916.

Survey commenced September 6, 1916 and executed with a Buff and Buff transit 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.

September 9, 1916.

At 8h. 18.4m. p.m., l.m.t., I observe Polaris for azimuth at Eastern Elongation at cor. No. 5., hereinafter described, with telescope direct and reversed. The reading on the reference object is set at zero. The mean horizontal angle West of star is 1° 16' and the azimuth of Polaris at Elongation is 1° 22' 07". Therefore reference object bears N. 0° 06' 07" E.

Lat. 33° 43' 31" N., Long. 109° 19' 18" W., from special

(Old bearing tree)

A yellow pine, 30 ins. dia., bears N. 30° 30' E.

302

APACHE NATIONAL FOREST

STATE OF ARIZONA

Chains	<p>Application for listing of five groups of instructions from the Surveyor General, and later dated April 23, 1915, List No. 8-2204, dated November 15, 1915; H. E. 024740, made in the Phoenix Land Office</p>	Chains
	<p>On April 23, 1914 by five groups  September 10, 1916.  Surveyed under special instructions from the Surveyor  At 8h. 14.5m. p.m., l.m.t., I again observe Polaris for  General for Arizona, dated June 21, 1915 and design-  azimuth at Eastern Elongation at same station, with  telescope direct and reversed. The reading on the  reference object is set at zero. The mean horizontal  angle West of star is 1° 16' 30" and the azimuth of  Polaris at Elongation is 1° 22' 07". Therefore, the  reference object bears N. 0° 05' 37" E.  The mean of these two observations is N. 0° 05' 52" E.  and to the corresponding meridian all the courses of</p>	
	<p>this survey are referred.  September 10, 1916.  Buff and Buff transit equipped with Smith solar st-</p>	
	<p>RESURVEY  I test the adjustments of the transit and make necessary  September 6, 1916.  From cor. for secs. 19, 24, 25 and 30, T. 4 N., Rs. 28  and 29 E., which is described by the Surveyor General  as a stone with memorial, mound of stone and two wit-  ness trees. After strict search I am unable to find  any trace of stone, mound or memorial, but find both</p>	
	<p>witness trees marked as described. I restore cor.  from witnesses as follows:  At 8h. 18.4m. p.m., l.m.t., I observe Polaris for azimuth  Deposit a lava stone 5 x 5 x 2 ins. marked with a +,  14 ins. in the ground, over which set a lava stone 24  x 10 x 5 ins. for cor. of secs. 19, 24, 25 and 30,  marked with two notches on S. face and four notches  on N. face and raise a mound of stone 3 ft. base, 2  ft. high W. of cor., whence:  A yellow pine, 18 ins. dia., bears N. 30° 10' W.,  73 lks. dist., scribed T 4 N R 28 E S 24 B T.  (Old bearing tree)  A yellow pine, 20 ins. dia., bears N. 86° 37' E.,</p>	

APACHE NATIONAL FOREST

STATE OF ARIZONA

Chains 98 lks. dist., scribed T 4 N R 29 E S 19 B T.  
 A yellow pine, 40 ins. dia., bears S. 55° 52' E.,  
 78 lks. dist., scribed T 4 N R 29 E S 30 B T.  
 (Old bearing tree)  
 A yellow pine, 22 ins. dia., bears S. 52° 53' W.,  
 62 lks. dist., scribed T 4 N R 28 E S 25 B T.  
 Thence North.  
 On random line bet. secs. 24 and 19.  
 40.00 The 1/4 sec. cor. bet. secs. 19 and 24 is not found after  
 a careful search.  
 80.00 The cor. for secs. 13, 18, 19 and 24 is not found after  
 a careful search. Continue N. between secs. 13 and  
 18.  
 120.24 Fall 60 lks. West of the 1/4 sec. cor. bet. secs. 13 and  
 18, which is a lava stone 16 x 14 x 6 ins. in mound of  
 stone, marked and witnessed as described by the Surveyor  
 General. Stone in poor condition. Restore it as  
 follows:  
 Deposit a lava stone 2 x 2 x 1 ins. marked with a +, 6  
 ins. in the ground, over which set a lava stone 28 x 16  
 x 8 ins. for 1/4 sec. cor. marked 1/4 on West face; and  
 raise a mound of stone 4 ft. base, 2 ft. high around  
 cor. to protect it, (impracticable to set stone deeper)  
 whence:  
 A yellow pine, 20 ins. dia., bears N. 52° 40' W.,  
 64 lks. dist., marked 1/4 S 13 B T.  
 A yellow pine, 36 ins. dia., bears S. 45° 00' E.,  
 23 lks. dist., marked 1/4 S 18 B T.  
 Thence S. 0° 17' W.  
 On true line bet. secs. 13 and 18.  
 40.08 Proportionate point for cor. of Secs. 13, 18, 19 and 24.  
 I again make strict search for this cor. which is de-  
 scribed by the Surveyor General as a stone with mound  
 of stone, but fail to find any trace of stone or mound.

APACHE NATIONAL FOREST  
STATE OF ARIZONA

Chains I re-establish cor. as follows:  
 Deposit a lava stone 8 x 8 x 13 ins. marked with a +, 14 ins. in the ground, over which set a lava stone 26 x 14 x 5 ins. for cor. of secs. 13, 18, 19 and 24, marked with three notches on N. and S. faces; and raise a mound of stone 3 ft. base, 2 ft. high W. of cor., whence:  
 A yellow pine, 12 ins. dia., bears N. 88° 48' E., 67 lks. dist., marked 1/4 S 18 B T.

Thence S. 0° 17' W.

On true line bet. secs. 19 and 24.  
 40.08 Proportionate point for 1/4 sec. cor. bet. secs. 19 and

24. I again make strict search for 1/4 sec. cor., which is described by the Surveyor General as a stone with a mound of stone, but fail to find any trace of stone or mound. I re-establish cor. as follows:

Deposit a lava stone 7 x 5 x 4 ins. marked with a +, 10 ins. in the ground, over which set a lava stone 20 x 12 x 12 ins. for 1/4 sec. cor. marked 1/4 on West face; and raise a mound of stone 4 ft. base, 3 ft. high W. of cor., whence:  
 A + on a lava stone 2 x 2 x 3 ft. above ground, bears N. 20° 30' W., 60 lks. dist., marked  
 B R 1/4 S 24.

Thence S. 0° 17' W.

On true line bet. secs. 19 and 24.  
 40.08 Cor. for secs. 19, 24, 25 and 30, heretofore described.

September 6, 1916.

BOUNDARIES OF CLAIM

September 7, 1916.

Beginning at cor. No. 1.

Identical with cor. H-4 of List 3-2904 and cor. H-5 of

TERO APACHE NATIONAL FOREST

STATE OF ARIZONA

Chains

List No. 3-3263, which is a lava stone 8 x 6 x 6 ins. above ground, marked and witnessed as described by the Forest Service. I destroy all trace of this list cor. which refers to this claim. Deposit a lava stone 6 x 5 x 5 ins. marked with a +, 10 ins. in the ground, over which set a lava stone 20 x 10 x 8 ins. (no larger stone available) chiseled + for the point and 1 - H E S 480 on E. face. No witnesses available, therefore dig pits 24 x 24 x 12 ins. crosswise on claim lines 7 ft. dist.; and raise a mound of earth 4 ft. base, 2 ft. high, 3-1/2 ft. dist. E. of cor.

Lat. 33° 43' 22" N., Long. 109° 20' 05" W., from special instructions from the Surveyor General, and later verified.  
Mag. decl. at 8 a.m., 13° 40' E. Mean mag. decl., 13° 37' E.

1/4 sec. cor. bet. Secs. 19 and 24, heretofore described, bears S. 87° 50' 09" W., 86.06 chs. dist., by traverse which appears at the end of these notes.

Thence N. 14° 40' E.

17.00

Along line H-5 - H-1 of List 3-3263. Descend gentle slope 10 ft. in open to cor. Fence on line.

To cor. No. 2. Identical with cor. H-5 of List 3-2904 and cor. H-1 of List 3-3263, which is a lava stone 20 x 10 x 10 ins. above ground, marked and witnessed as described by the Forest Service. I destroy all trace of the list cor. which refers to this claim. Deposit a lava stone 6 x 5 x 5 ins. marked with a +, 14 ins. in the ground, over which set a lava stone 24 x 12 x 8 ins., chiseled + for the point and 2 - H E S 480 on S. face. No witnesses available, therefore dig pits 24 x 24 x 12 ins. crosswise on claim line 8 ft. dist.; and raise a mound of earth 4 ft. base, 2 ft. high, 3-1/2 ft. dist. S. of cor.

Chains Thence S. 57° 22' E. Over open level land. Leave fence, bears ESE.  
 25.00 Descend open, gentle slope, 15 ft. in open to creek.  
 33.50 Horton Creek, running water 2 lks. wide, 3 ins. deep,  
 course N. Ascend 5 ft. in open to cor. x 3  
 35.51 To cor. No. 3.  
 Deposit a lava stone 5 x 4 x 3 ins. marked with a +, 18  
 ins. in the ground, over which set a lava stone 28 x 8  
 x 8 ins. chiseled + for the point and 3 - H E S 480 on  
 SE. face. No witnesses available, therefore dig pits  
 24 x 24 x 12 ins. crosswise on claim lines 3 ft. dist.;  
 and raise a mound of earth 4 ft. base, 2 ft. high, 3-1/2  
 ft. dist. SE. of cor.  
 Cor. H-6 of the list survey, which is a lava  
 stone 14 x 6 x 6 ins. above ground, marked  
 and witnessed as described by the Forest  
 Service, bears N. 49° W., 45 lks. dist. I  
 destroy all trace of this list cor.  
 Move necessary to reduce acreage to statutory limits.

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Thence N. 28° 25' E.  
 Descend 5 ft. in open to creek.  
 5.20 East bank Horton Creek, 3 ft. high.  
 6.30 Horton Creek, running water 3 lks. wide, 2 ins. deep,  
 course NE.  
 7.50 Horton Creek, running water 3 lks. wide, 2 ins. deep,  
 course N. Thence along Creek.  
 9.80 Leave Horton Creek, course NE.  
 20.00 Horton Creek, 3 lks. wide, 3 ins. deep, course N.  
 27.15 Fence bears S. 55° E. and N. 55° W.  
 27.50 Road bears N. 55° W. and S. 55° E.  
 -27.85 To cor. No. 4.  
 On line 9-10 of H. E. S. 482.  
 Identical with cor. H-7 of the list survey, which is



## APACHE NATIONAL FOREST

STATE OF ARIZONA

Chains  
Level  
a lava stone 7 x 6 x 8 ins. above ground, marked and witnessed as described by the Forest Service. I destroy all trace of this list cor. Deposit a lava stone 4 x 3 x 3 ins. marked with a +, 16 ins. in the ground, over which set a lava stone 26 x 16 x 5 ins., chiseled + for the point and 4 - H E S 480 on S. face. No witnesses available, therefore dig pits 24 x 24 x 12 ins. crosswise on claim lines 8 ft. dist.; and raise a mound of earth 4 ft. base, 2 ft. high S. of cor.

Cor. No. 10 H. E. S. 482, which is a lava stone, 12 x 7 x 10 ins. above ground, marked 10 - H E S 482 on NE. face, bears N. 55° 30' W., 25.81 chs. dist.

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Thence S. 55° 30' E.

Along line 10-9 of H. E. S. 482. In open, over level land. Fence bears SSW. and along line.

14.10 To cor. No. 5.

Also cor. No. 9 H. E. S. 482 and cor. No. 2 H. E. S. 483.

Identical with cor. H-1, of List 3-2904, cor. H-6 of List 3-2311 and cor. H-1 of List 3-3066, which is a lava stone 8 x 4 x 6 ins. above ground, marked and witnessed as described by the Forest Service. I destroy all trace of this list cor. Deposit a lava stone 6 x 5 x 5 ins. marked with a +, 14 ins. in the ground, over which set a lava stone 24 x 14 x 10 ins. chiseled + for the point, 5 - H E S 480 on WSW. face, 9 - H E S 482 on N. face and 2 - H E S 483 on E. face. No witnesses available, therefore dig pits 24 x 24 x 12 ins. crosswise on claim lines 7 ft. dist. and N. 7° 30' E., 3 ft. dist.; and raise a mound of earth and rock 5 ft. base, 3 ft. high, 3 ft. dist, WSW. of cor.

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HOMESTEAD ENTRY SURVEY NO. 480

Apache NATIONAL FOREST

STATE OF ARIZONA

Chains	Thence S. 23° 05' W.
-05	Along line 2-1 of H. E. S. 483. In open, over level land.
0.47	Road bears N. 55° W. and S. 55° E.
0.68	Fence cor., fence bears N. 55° W. and along line.
10.40	Cor. No. 1 H. E. S. 483, which is a lava stone 24 x 16 x 8 ins. marked 1 - H E S 483 on E. face, with pits and mound of earth. Thence over open land, ascending gradually 10 ft. to cor.
38.40	To cor. No. 6. Identical with cor. H-2 of the list survey, which is a lava stone 16 x 10 x 9 ins. above ground, marked and witnessed as described by the Forest Service. I destroy all trace of this list cor. Deposit a lava stone 5 x 5 x 5 ins. marked with a +, 14 ins. in the ground, over which set a lava stone 24 x 8 x 5 ins., chiseled + for the point and 6 - H E S 480 on NW. face; and raise a mound of stone 3 ft. base, 2 ft. high NW. of cor., whence: A yellow pine, 18 ins. dia., bears S. 34° 51' W., 138 lks. dist., scribed 6 H E S 480 + B T. A yellow pine, 24-ins. dia., bears N. 52° 53' W., 48 lks. dist., scribed 6 H E S 480 + B T.
	Thence S. 65° 34' W.
	In open, over level land. Fence on line.
1.55	Horton Creek, running water 3 lks. wide, .2 ins. deep, course NNW.
21.78	Arroyo, 9 lks. wide, 1 ft. deep, course N. -
23.07	Arroyo, 9 lks. wide, 1 ft. deep, course NNE.
26.09	To cor. No. 7. Identical with cor. H-3 of the list survey, which is a lava stone 10 x 6 x 7 ins. above ground, marked and witnessed as described by the Forest Service. I de-

APACHE NATIONAL FOREST

STATE OF ARIZONA

Chains

Destroy all trace of this list cor. Deposit a lava stone 7 x 7 x 4 ins. marked with a +, 10 ins. in the ground, over which, set a lava stone 20 x 10 x 8 ins., (no larger stone available), chiseled + for the point and 7 H E S 480 on N. face; and raise a mound of stone 3-ft. base, 2-ft. high N. of cor., whence:

A yellow pine, 18 ins. dia., bears N. 85° 13' W., 115-lks. dist., scribed 7 H E S 480 + B T.

A yellow pine, 18 ins. dia., bears S. 11° 18' E., 87 lks. dist., scribed 7 H E S 480 + B T.

Thence N. 32° 06' W. In open, over level land. Fence on line.

5.15 Arroyo, 8 lks. wide, 1 ft. deep, course ENE.

17.08 Arroyo, 6 lks. wide, 1 ft. deep, course E.

18.45 SW. cor. corral, fence bears NE.

20.00 NW. cor. corral fence. Fence bears NE.

Ascend gradual slope 10 ft. to cor.

38.10 To cor. No. 1, the place of beginning.

Sept. 7, 1916.

AREA

Total Area - - - - - 159.83 acres

IMPROVEMENTS

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

A log house, 20 x 20 ft., side from cardinal directions, the SE. cor. of which bears N. 17° 03' W., 21.90 chs. dist. from cor. No. 7.

Value ----- \$200.00

A wagon shed, 18 x 10 ft., the long side of which bears E. and W. and the SW. cor. of which bears N. 19° 10' W., 21.60 chs. dist. from cor. No. 7.

Value ----- \$ 40.00

Chains An outhouse, 12 x 10 ft., the long side of which bears  
 N. and S. and the SW. cor. of which bears N. 18° 45' W.,  
 22.15 chs. dist. from cor. No. 7.  
 Value ----- \$ 30.00

A pole corral on line 7-1, 150 x 100 ft.  
 Value ----- \$ 40.00

There are approximately 2-1/2 miles of wire fence.  
 Value ----- \$350.00

DESCRIPTION

This claim lies along Horton Creek, 1/4 mile South of  
 its junction with Beaver Creek. The general slope  
 is to the North and elevation is 7600 ft.

The claim consists of low bench cut by Horton Creek,  
 with gentle gradual slope to Creek from East and West.

The soil is a clayey loam of good depth and supports  
 good crops.

There is no timber except for a few scattered yellow  
 pine along South boundary lines.

Horton Creek furnishes sufficient water for domestic  
 use. Water for irrigation is not necessary.

There are approximately 20 acres in cultivation.

I saw no indication of mineral upon the claim.

CONFLICTS AND ADJOINING CLAIMS

There are no conflicts. H. E. S. 482 of Martin Sulz-  
 berger joins this claim on the North; H. E. S. 483 of  
 Umpstead Wiltbank on the East, and List 3-3263 of  
 George Balke on the West.

Alpine, Arizona, the nearest post office, is 20 miles  
 to the E. by poor road. Springerville, Arizona, the  
 nearest commercial center, is 50 miles dist. and Hol-  
 brook, Arizona, the nearest railroad point, is 150 miles  
 dist.

T28807 APACHE NATIONAL FOREST  
STATE OF ARIZONA

311

Chains

TRAVERSE

Cor.	Course	Dist.	N	S	E	W	
1-2	N. 14° 40' E.	17.00	16.45		4.30		
2-3	S. 57° 22' E.	35.51		19.15	29.90		
3-4	N. 28° 25' E.	27.85	24.49		13.25		
4-5	S. 55° 30' E.	14.10		7.99	11.62		
5-6	S. 23° 05' W.	38.40		35.33		15.06	
6-7	S. 65° 34' W.	26.09		10.79		23.75	
7-1	N. 32° 06' W.	38.10	32.28			20.25	
			197.05	73.22	73.26	59.07	59.06
Error in Lat. and Dep.					73.22	59.06	
					.04	.01	

Closing error, 1:4783.

Survey completed September 10, 1916.

*R. P. Johnson*  
Surveyor - Draftsman

312

088 HOMESTEAD ENTRY SURVEY NO.

TERRITORY NATIONAL FOREST

STATE OF

Chains

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Surveyed by

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. 480, STATE OF Arizona.

CORNERS.	BEARING.	DISTANCE.	LATITUDES.		DEPARTURES.		DOUBLE M. D.	N. AREAS.	S. AREAS.
			NORTH.	SOUTH.	EAST.	WEST.			
1-2	N. 14° 40' E.	17.00	16 45		4 30		4 30		
2-3	S. 57° 22' E.	35.51		19 15	29 90		38 50	736 89	70 74
3-4	N. 28° 25' E.	27.85	24 49		13 25		81 65		2000 43
4-5	S. 55° 30' E.	14.10		7 99	11 62		106 52	851 09	
5-6	S. 23° 05' W.	38.40		35 33		15 06	103 07	3640 43	
6-7	S. 65° 34' W.	26.09		10 79		23 75	64 25	693 26	
7-1	N. 32° 06' W.	38.10	32 28		20 25		20 25		653 87
		197.05	73 22	73 26	59 07	59 06		5921 67	2725 04
			73 24	73 24	59 07	59 07		2725 04	
								3196 63	
								159 83	Acres.

3/3

EM

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.

TABLE AND CALCULATIONS OF HOMESTEAD ENTRY SURVEY NO. 480, STATE OF ARIZONA.

CORNERS.	BEARING.	DISTANCE.	LATITUDES.		DEPARTURES.		DOUBLE M. D.	N. AREAS.	S. AREAS.
			NORTH.	SOUTH.	EAST.	WEST.			
		Tie from cor. No. 1 to 1/4 sec.					24 and 19		
	S. 81° 06' W.	53.00		8 20		52 36			
	S. 42° 05' W.	45.39		33 69		30 42			
	S. 67° 07' W.	3.71		1 44		3 42	log.	86.00	1.934498
	N. 0° 17' E.	40.08	40 08		0 20		log.	3.25	10.511883
			40 08	43 33	0 20	86 20	log. tan.	87° 50' 09"	11.422615
				40 08		0 20			
				3 25		86 00	log.	86.00	1.934498
							log. sin.	87° 50' 09"	9.999690
								86.06	1.934808

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APPROVAL

Office of the United States Surveyor General,

Phoenix, Arizona, June 29, 1918

The foregoing field notes of Homestead Entry Survey No.

480

executed by R. P. A. Johnson, Surveyor-Draftsman  
[Forest Service Title.]  
under his special instructions, dated June 21, 1916, 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.