

U. S. DEPARTMENT OF AGRICULTURE  
FOREST SERVICE

MAY 7 - 1911  
JUN 20 1911  
MAY 24 1918

**FIELD NOTES**

OF

HOMESTEAD ENTRY SURVEY NO. 422

SITUATED IN THE **TONTON** NATIONAL FOREST

ADMINISTRATIVE DISTRICT NO. 3

In Section 28, unsurveyed, Township 11 N., Range 11 E.

of the

Gila and Salt River Base and Meridian.

State of

ARIZONA

Applicant for listing **W. S. Lazear,** ✓

Residence **Payson, Arizona**

Application No. **215** ✓, dated **April 14**, 1910 ✓

List No. **3-632** ✓, dated **August 17**, 1910 ✓

Am. " " **3-632** ✓, dated **March 14**, 1918 ✓

Applicant for survey **Floyd Lockwood,** ✓

Residence **Payson, Arizona**

H. E. No. **014466** ✓, dated **May 29**, 1911 ✓ Rel. Feb. 3, 1917  
" " **Office 031707** " " **Feb. 19**, 1917, Roy Lockwood.

Land District **Phoenix, Arizona**

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

Under special instructions dated **September 23**, 1915 ✓

Survey commenced **April 26**, 1916

Survey completed **April 29**, 1916

Under Acts of **June 11, 1906** and **March 4, 1915** ✓



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OATH OF ASSISTANTS

We hereby certify that we assisted R.P.A. Johnson in surveying all those parts or portions of Homestead Entry Survey No. 427, 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.

Nelson A. Newman, Chairman  
Ferry D. Lewis, Chairman

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

R.P.A. Johnson  
Surveyor Draftsman

OATH OF SURVEYOR

I, R.P.A. Johnson Surveyor Draftsman [Forest Service Title.]

do solemnly swear that, in strict conformity with the special instructions of the United States Surveyor General for Arizona, dated September 23 1915, 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. 3-632, dated August 17, 1910, for patent, under the Act of June 11, 1906, the same to be known as Homestead Entry Survey No. 422, situated within the Sonto National Forest, in unsurveyed Section 28, Township 11N, Range 11E, and surveyed Section ---, Township ---, Range ---,

of the Gila and Salt River Base and 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.

DISTRICT OF COLUMBIA  
CITY OF WASHINGTON

R.P.A. Johnson  
Surveyor Draftsman [Forest Service Title.]

Subscribed and sworn to before me this second day of

January, 1917.

Sylvester L. McLaughlin  
NOTARY PUBLIC, D. C.



Commission expires June 20, 1918.



Chains Applicant for listing, W. S. Lazear; Application No. 215, dated April 14, 1910; List No. 3-632, dated August 17, 1910; H. E. 014466, made in the Phoenix Land Office on May 29, 1911 by Floyd Lockwood.

The listing in this case was made by legal subdivisions in a Township which was never legally surveyed and no attempt was made to locate original list lines on the ground. This survey is in the nature of a cooperative survey and will be used as a basis for amendatory listing and entry.

Township 11 N., R. 11 E. was surveyed under contract No. 116, by U. S. Deputy Surveyors, Campbell and Oakes, dated April 18, 1904. The east boundary and subdivisions were finally rejected on January 8, 1909. The retracement of portions of the south and west boundaries under this contract were accepted on same date. Surveyed under special instructions from the Surveyor General for Arizona, dated September 23, 1915 and designated as Homestead Entry Survey No. 422.

Situated in what will probably be, when surveyed, sec. 28, T. 11 N., R. 11 E., Gila and Salt River Base and Meridian, Tonto National Forest, Arizona.

Surveyed under the Acts of June 11, 1906 and March 4, 1915.

Survey commenced April 26, 1916 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



2.

TRENTON NATIONAL FOREST

STATE OF ARIZONA

Chains  
 April 26, 1916.

At 3h. 10m. p.m., l.m.t., I set off 34° 16' on the Lat. arc, 13° 39' N. on decl. arc, and determine a meridian with the solar at cor. No. 1, hereinafter described. The reading on the meridian thus obtained is set at zero and the altitude of the sun is observed for azimuth. The sun was observed in the upper left and lower right quadrants of the field. My watch is set for local mean time.

Lat. 34° 16' N., Long. 111° 13' 43" W., from special instructions from the Surveyor General, and later verified.

Telescope	Time	Horizontal Angle	Vertical Angle
Direct	3h. 20m. 18s.	78° 56' 00"	39° 35' 30"
Reverse	3h. 21m. 26s.	78° 27' 30"	40° 06' 00"
Difference from solar meridian, 0° 01' 47".			

April 27, 1916.

At 8h. 15m. a.m., l.m.t., I set off 34° 16-1/2' on Lat. arc, 13° 52-1/2' N. on decl. arc, and determine a meridian with the solar at cor. No. 8, hereinafter described. The reading on the meridian thus obtained is set at zero and the altitude of the sun is observed for azimuth. The sun was observed in the lower left and upper right quadrants of the field. My watch is set for local mean time.

Lat 34° 16' 30" N. Long. 111° 13' 27" W., from special instructions from the Surveyor General, and later verified.

Telescope	Time	Horizontal Angle	Vertical Angle
Direct	8h. 24m. 25s.	80° 09' 30"	38° 19' 00"
Reverse	8h. 25m. 27s.	80° 39' 00"	37° 59' 00"



Chains Difference from solar meridian, 0° 01' 33" Chains

TIE

At 2h. 10m. p.m., l.m.t., I set off 34° 16' on Lat. arc, 13° 57' N. on decl. arc, and determine a meridian with the solar at cor. No. 1, hereinafter described.

Thence South.

One random tie line.

30.11 Fall 9 lks. West of 1/4 sec. cor. bet. secs. 28 and 33 of rejected survey of T. 11 N., R. 11 E.; in accordance with special instruction from the Surveyor General, I destroy all trace of this rejected cor.

110.34 1/4 sec. cor. bet. secs. 33 and 4, Ts. 10 and 11 N., R. 11 E., which is a granite stone 8 x 5 x 6 ins. above ground, marked and witnessed as described by the Surveyor General.  
Return course North, 110.34 chs. dist.

BOUNDARIES OF CLAIM

April 28, 1916.

Beginning at cor. No. 1.

Identical with cor. No. 1, H. E. S. 421 which is a conglomerate stone 8 x 5 x 10 ins. above ground, marked 1 - H E S 421 on NE. face, with mound of stone NE. of cor. I mark same stone 1 - H E S 422 on NW. face for cor. No. 1 of this survey, whence:

A juniper, 14 ins. dia., bears S. 4° 30' E., 65 lks. dist., scribed 1 H E S 422 + B T.

A juniper, 8 ins. dia., bears N. 85° 45' W., 55 lks. dist., scribed 1 H E S 422 + B T.

A juniper, 34 ins. dia., bears N. 82° 40' E., 42 lks. dist., scribed 1 H E S 421 + B T.

A juniper, 6 ins. dia., bears N. 6° W., 160



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STATE OF ARIZONA.

Chains

lks. dist., scribed 1 H E S 421 + B T.

Lat. 34° 15' 53" N., Long. 111° 13' 43" W., from special instructions from the Surveyor General and later verified.

Mag. Var. at 8.00 a.m., 14° 20' E. Mean Mag. Var. 14° 17' E.

At 8h. 00m. a.m., 1.m.t., I set off 34° 16' on Lat. arc, 14° 11-1/2' N. on decl. arc, and determine a meridian with the solar at cor. No. 1. Thence West.

Ascend 15 ft. in scattered brush to bench.

1.50 Top ascent. Thence over level land in scattered brush to cor.

10.00 To cor. No. 2. Deposit broken glass 14 ins. in the ground, over which set a granite stone 24 x 10 x 10 ins., chiseled + for the point and 2- H E S 422 on NE. face; and raise a mound of stone 3 ft. base, 2 ft. high NE. of cor., whence:

A pinon, 6 ins. dia., bears N. 53° 15' W.,

79 lks. dist., scribed 2 H E S 422 + B T.

An oak, 6 ins. dia., bears N. 28° 10' E.,

64 lks. dist., scribed 2 H E S 422 + B T.

Thence North.

Over level land in brush.

5.80 Road, bears NW. and SE.

6.10 Telephone line, bears NW. and SE.

6.55 Fence, bears NW. and SE.

10.00 To cor. No. 3.

Deposit broken glass 14 ins. in the ground, over which set a granite stone 24 x 10 x 8 ins., chiseled + for the point and 3- H E S 422 on NE. face; and raise a



Chains mound of stone 2 ft. base, 1-1/2 ft. high NE. of cor.,  
whence:  
A juniper, 22 ins. dia., bears N. 10° 30' W.,  
56 lks. dist., scribed 3 H E S 422 + B T.  
A juniper, 26 ins. dia., bears S. 52° 45' W.,  
127 lks. dist., scribed 3 H E S 422 + B T.

Thence West.

Over level land in brush.

4.84 Fence, bears NW. and SE.  
9,06 To cor. No. 4.  
Deposit broken glass 16 ins. in the ground, over which  
set a granite stone 26 x 16 x 3 ins., chiseled + for  
the point and 4 - H E S 422 on NE. face; and raise a  
mound of stone 2 ft. base, 1-1/2 ft. high NE. of cor.  
whence:  
A juniper, 6 ins. dia., bears N. 70° 23' W.,  
37 lks. dist., scribed 4 H E S 422 + B T.  
An oak, 4 ins. dia., bears N. 54° 27' E., 105  
lks. dist., scribed 4 H E S 422 + B T.

Thence North.

Over level land in brush.

6.63 Fence, bears NW. and SE.  
9.70 Fence, bears NE. and SW. Descend gentle slope 10 ft.  
to cor. in brush.  
20.00 To cor. No. 5.  
Deposit broken glass 10 ins. in the ground, over which  
set a granite stone 18 x 10 x 8 ins. (no longer stone  
available), chiseled + for the point and 5 - H E S  
422 on SE. face; dig pits 24 x 24 x 12 ins. crosswise  
on claim lines 7 ft. dist.; and raise a mound of earth  
4 ft. base, 3 ft. high SE. of cor., whence:



Chains to . . . A juniper, 10 ins. dia., bears S. 39° 45' E.,  
70 lks. dist., scribed 5 H E S. 422 + B T.

. . . A juniper, 5 ins. dia., bears S. 30° 59' W.,  
110 lks dist., scribed 5 H E S. 422 + B T.

---

Thence East.

Ascend 10 ft. in brush to cor.

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5.86 Fence, bears NE. and SW.

10.00 To cor. No. 6.

Deposit broken glass 14 ins. in the ground, over which  
set a granite stone 24 x 8 x 8 ins., chiseled + for  
the point and 6 - H E S 422 on SE. face; dig pits  
24 x 24 x 12 ins. crosswise on claim lines 3 ft.  
dist. and raise a mound of earth 4 ft. base, 3 ft.  
high SE. of cor.; whence:

A juniper, 8 ins. dia., bears N. 43° 23' E.,  
57 lks. dist., scribed 6 H E S 422 + B T.

A juniper, 12 ins. dia., bears S. 32° 21' E.,  
76 lks. dist., scribed 6 H E S 422 + B T.

April 28, 1916.

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April 29, 1916.

At 7h. 40m. a.m., l.m.t., I set off 34° 16-1/2' on Lat.  
arc, 14° 30' N. on decl arc, and determine a meridian  
with the solar at cor. No. 6.

Thence North.

Descend 10 ft. in brush to arroyo.

5.43 Fence bears NE. and SW.

6.83 Arroyo, 40 lks. wide, 10 ft. deep, course SW Ascend  
10 ft. to cor. in brush.

10.00 To cor. No. 7.

Deposit broken glass 36 ins. in the ground, over which



Chains

set a juniper post 5 x 4 x 48 ins. marked + for the point and 7 - H E S 422 on SE. face, (no stone available for cor.) dig pits 24 x 24 x 12 ins. crosswise on claim lines 7 ft. dist. and raise a mound of earth 4 ft. base, 3 ft. high SE. of cor., whence:

A juniper, 6 ins. dia. bears S. 32° 02' E.,  
49 lks. dist., scribed 7 H E S 422 + B T.

A juniper, 5 ins. dia., bears N. 79° 43' E.,  
97 lks. dist., scribed 7 H E S 422 + B T.

Thence East.

Descend 10 ft. in brush to arroyo.

2.95 Arroyo, 30 lks. wide, 70 ft. deep, course SW. Ascend 10 ft. to bench in brush.

4.03 Fence, bears N. and S. Top ascent. Thence over level brush land.

19.60 Fence, bears NW. and SE. Descend 20 ft. in brush to arroyo.

24.40 Arroyo, 40 lks. wide, 15 ft. deep, course S. Ascend 20 ft. in brush to cor.

29.00 To cor. No. 8.

Deposit broken glass 14 ins. in the ground, over which set a granite stone 24 x 12 x 6 ins., chiseled + for the point and 8 - H E S 422 on SW. face; and raise a mound of stone 2 ft. base, 1-1/2 ft. high SW. of cor., whence:

A pinon, 14 ins. dia., bears S. 37° 15' E.,  
37 lks. dist., scribed 8 H E S 422 + B T.

A pinon, 6 ins. dia., bears N. 20° 15' E.,  
37 lks. dist., scribed 8 H E S 422 + B T.

Thence South.

Over level land in brush.



8.

TONTONATIONAL FOREST

STATE OF ARIZONA.

Chains	
5.10	Fence, bears NW. and SE.
8.50	Cor. No. 6, H. E. S. 421, which is a sandstone 10 x 8 x 10 ins. above ground, marked 6 - H E S 421 on SE. face, with pits 24 x 24 x 12 ins. South and East of cor. 7 ft. dist., with mound of earth 4 ft. base, 2 ft. high, SE. of cor. Descend 40 ft. in brush to arroyo. Along line 6-5 of H. E. S. 421.
14.10	Arroyo, 10 lks. wide, 1 ft. deep, course SW. Ascend 40 ft. in brush to flat.
18.90	Road, bears NE. and SW. Top ascent. Leave brush.
19.50	Fence, bears NE. and SW. Enter field.
20.00	To cor. No. 9. Identical with cor. No. 5, H. E. S. 421, which is a granite stone 12 x 6 x 10 ins. above ground, chiseled + for point and 5 - H E S 421 on SE. face, with mound of stone 2 ft. base, 1-1/2 ft. high SE. of cor. I mark cor. stone 9 - H E S 422 on NW. face for cor. No. 9 of this survey, whence: A juniper, 8 ins. dia., bears N. 38° W., 85 lks. dist., scribed 9 H E S 422 - 5 H E S 421 + B T. No other witnesses available. Pits impracticable.
	Thence West. Along line 5-4 of H. E. S. 421. Descend 30 ft. to arroyo.
1.00	Fence, bears NE. and SW. Leave field.
1.65	Road, bears NE. and SW.
3.90	Arroyo, 10 lks. wide, 1 ft. deep, course SW. Ascend 30 ft. in brush to cor.
7.00	To cor. No. 10. Identical with cor. No. 4 of H. E. S. 421, which is granite stone 8 x 8 x 10 ins. above ground, chiseled



Chains. + for the point and 4 - H E S 421 on SE. face, with mound of stone 2 ft. base, 1-1/2 ft. high SE. of cor. I chisel cor. stone 10 - H E S 422 on NW. face for cor. No. 10 of this survey, whence:

A juniper, 24 ins. dia., bears N. 4° 15' E.,  
74 lks. dist., scribed 10 H E S 422 + B T.

A pinon, 14 ins. dia., bears N. 81° 45' W.,  
152 lks. dist., scribed 10 H E S 422 + B T.

A juniper, 6 ins. dia., bears S. 30° W., 100  
lks. dist., scribed 4 H E S 421 + B T.

An oak, 12 ins. dia., bears S. 82° 30' E.,  
44 lks. dist., scribed 4 H E S 421 + B T.

Thence South.

Along line 4-3 of H. E. S. 421. Descend 30 ft. in  
brush to arroyo.

7.00 Arroyo, 10 lks. wide, 1 ft. deep, course SW. Ascend  
30 ft. in brush to flat.

9.43 Road, bears NE. and SW. Top ascent. Leave brush.

9.72 Fence, bears NE. and SW.

10.00 To cor. No. 11.

Identical with cor. No. 3 of H. E. S. 421, which is a  
granite stone 8 x 8 x 10 ins. above ground, chiseled  
+ for the point and 3 - H E S 421 on SE. face, with  
mound of stone 2 ft. base, 1-1/2 ft. high SE. of cor.  
I mark cor. stone 11 - H E S 422 on NW. face for cor.  
No. 11 of this survey, whence:

A juniper, 18 ins. dia., bears N. 48° 45' W.,  
96 lks. dist., scribed 11 H E S 422 + B T.

A juniper, 8 ins. dia., bears N. 31° 15' E.,  
228 lks. dist., scribed 11 H E S 422 + B T.

A juniper, 22 ins. dia., bears N. 55° 15' W.,  
103 lks. dist., scribed 3 H E S 421 + B T.



10.

TONTONATIONAL FOREST

STATE OF ARIZONA.

Chains . . . A juniper, 10 ins. dia., bears N. 1° 45' E.,  
122 lks. dist., scribed 3 H E S 421 + B T.

Thence N. 89° 57' W.

Along line 3-2 of H. E. S. 421. Over level land in  
brush.

- 0.11 Fence, bears N. and S.
- 0.51 Road, bears S. and NE.
- 7.91 Arroyo, 20 lks. wide, 10 ft. deep, course S.
- 12.91 To cor. No. 12.

Identical with cor. No. 2 of H. E. S. 421, which is a  
granite stone 12 x 6 x 10 ins. above ground, chiseled  
+ for the point and 2- H E S 421 on SE. face, with  
pits 24 x 24 x 12 ins. crosswise on claim lines 7 ft.  
dist. and mound of earth 4 ft. base, 2 ft. high SE.  
of cor. I mark cor. stone 12 - H E S 422 on NW. face  
for cor. No. 12 of this survey, whence:

An oak, 5 ins. dia., bears N. 60° 15' W.,  
53 lks. dist., scribed 12 - H E S 422 + B T.

An oak, 6 ins. dia., bears N. 11° W., 46  
lks. dist., scribed 12 H E S 422 + B T.

An oak, 6 ins. dia., bears N. 13° 15' E.,  
47 lks. dist., scribed 2 H E S 421 + B T.

A juniper, 6 ins. dia., bears N. 60° 15' W.,  
53 lks. dist., scribed 2 H E S 421 + B T.

Thence South.

Along line 2-1 of H. E. S. 421. Descend 20 ft. in  
brush to arroyo.

- 7.04 Fence, bears E. and W.
- 8.10 Arroyo, 20 lks. wide, 3 ft. deep, course SE. Ascend  
5 ft. in open to cor.
- 9.14 Road, bears NW. and SE:



Chains

9.72

Forest Service Telephone line, bears NW. and SE.

10.00

Cor. No. 1, the place of beginning.

AREA

Total Area - - - - - 109.94 acres.

IMPROVEMENTS

The improvements on this claim consist of approximately  
1-1/4 miles of wire fence.

Value - - - - - \$ 200.00

No other improvements at time of survey.

DESCRIPTION

This claim lies on the Tonto Creek Watershed, at an elevation of approximately 5500 ft. The land is a flat mesa, cut by small arroyos in the Eastern portion.

The timber consists of oak, juniper and pinon, a heavy stand of which lies along all boundary lines, enclosing a large open park in central portion. This timber is only suitable for post and fire wood. There is no commercial timber.

The soil is a sandy loam of good depth and is producing fair crops on adjoining homesteads without irrigation. There has been no cultivation on this claim.

There is no water for irrigation and none for domestic use. Water for domestic use can be obtained at a depth of approximately 20 ft.

I saw no indication of mineral upon this claim.

CONFLICTS AND ADJOINING CLAIMS.

There are no conflicts. This claim is joined on the East by H. E. S. 421 of A. J. Franklin. H.E.S. No. 419 lies about a quarter of a mile southeast, H.E.S. Nos. 53, 418 and 429 lies about one and a half miles southwest, and H.E.S. No. 156 lies about one mile west of this claim.



12.

TONTO NATIONAL FOREST

STATE OF ARIZONA

Chains

Payson, Arizona, the nearest post office, is 8 miles distant and Globe, Arizona, the nearest railroad point is 110 miles distant.

TRAVERSE

Cor.	Course	Dist.	N	S	E	W
1-2	West	10.00				10.00
2-3	North	10.00	10.00			
3-4	West	9.06				9.06
4-5	North	20.00	20.00			
5-6	East	10.00			10.00	
6-7	North	10.00	10.00			
7-8	East	29.00			29.00	
8-9	South	20.00		20.00		
9-10	West	7.00				7.00
10-11	South	10.00		10.00		
11-12	N.89°57'W	12.91	0.01			12.91
12-1	South	10.00		10.00		
		157.97	40.01	40.00	39.00	38.97
			40.00		38.97	

Error in Lat. and Dep. .01 .03

Closing error, 1:4992.

Survey completed April 29, 1916.

*R. P. Johnson*  
Surveyor - Draftsman

There are no conflicts. This claim is joined on the east by E. S. 421 of A. J. Franklin. H. M. S. No. 119 lies about a quarter of a mile southeast. H. M. S. Nos. 53, 118 and 120 lie about one and a half miles southwest and H. M. S. No. 121 lies about one mile west of this claim.



HOMESTEAD ENTRY SURVEY NO 422

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TONTO NATIONAL FOREST  
STATE OF ARIZONA.

Chains

Direct Solar, April 26, 1916, at cor. 1, H. E. S. 422  
 Lat. 34° 16' N. Long. 111° 13' 43" W. Elev. 5500

Telescope	Time	Horizontal Angle	Vertical Angle	Pos. Sun
Direct	3h. 20m. 18s.	78° 56' 00"	39° 35' 30"	° +
Reversed	3h. 21m. 26s.	78° 27' 30"	40° 06' 00"	° +
	3h. 20m. 52s.	78° 41' 45"	39° 50' 45"	
			57"	
			39° 49' 48"	

Decl. 13° 38' 43" N.

$$\text{Cos. } Q. = \frac{\sin. 13^\circ 38' 43''}{\cos. 34^\circ 16' \times \cos. 39^\circ 49' 48''} - \frac{\tan. 34^\circ 16' \times \tan. 39^\circ 49' 48''}{\cos. 34^\circ 16' \times \cos. 39^\circ 49' 48''}$$

log. sin. 13° 38' 43" = + 9.372746  
 log. cos. 34° 16' = - 9.917204 ✓  
 log. cos. 39° 49' 48" = - 9.885332 ✓  
 9.570210 = log. .37171 ✓

log. tan. 34° 16' = 9.833339 ✓  
 log. tan. 39° 49' 48" = 9.921195 ✓  
 9.754534 = log. .56824 ✓

Cos. Q. = .19653 ✓  
 Q. = 78° 39' 58" ✓

Difference in meridians, 0° 1' 47" ✓

Direct Solar, April 27, 1916, at cor. No. 8, H. E. S. 422.

Lat. 34° 16' 30". Long. 111° 13' 27" W. Elev. 5500.

Telescope	Time	Horizontal Angle	Vertical Angle	Pos. Sun
Direct	8h. 24m. 25s.	80° 09' 30"	38° 19'	° +
Reversed	8h. 25m. 27s.	80° 39' 00"	37° 59'	° +
	8h. 24m. 56s.	80° 24' 15"	38° 09' 01"	
			38° 08'	

Decl. 13° 52' 06" N.

$$\text{Cos. } Q. = \frac{\sin. 13^\circ 52' 06''}{\cos. 34^\circ 16' 30'' \times \cos. 38^\circ 08''} - \frac{\tan. 34^\circ 16' 30'' \times \tan. 38^\circ 08''}{\cos. 34^\circ 16' 30'' \times \cos. 38^\circ 08''}$$

log. sin. 13° 52' 06" = + 9.379653  
 log. cos. 34° 16' 30" = - 9.917161 ✓  
 log. cos. 38° 08' = - 9.895741 ✓  
 9.566751 = log. .36877 ✓

log. tan. 34° 16' 30" = 9.833475 ✓  
 log. tan. 38° 08' = 9.894892 ✓  
 9.728367 = log. .53502 ✓

Cos. Q. = .16625  
 Q. = 80° 25' 48" ✓

Difference in meridians, 0° 1' 33" ✓







- DIRECTIONS.—1. Carry out calculations to two decimals only.  
 2. In balancing Latitudes and Departures do not obliterate or change the original figures. Do not change the footing of the original figures, but put below them the corrected footing in red ink. 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.

TABLED AND CALCULATIONS OF HOMESTEAD ENTRY SURVEY NO. 422, STATE OF Arizona.

CORNERS.	BEARING.	DISTANCE.	LATITUDES.		DEPARTURES.		DOUBLE M. D.	N. AREAS.	S. AREAS.
			NORTH.	SOUTH.	EAST.	WEST.			
1-2	West	10.00				10 00	28 14	0 00	
2-3	North	10.00	10 00				18 14	181 40	
3-4	West	9.06				9 06	9 08	0 00	
4-5	North	20.00	20 00			01	0 01	0 20	
5-6	East	10.00			10 00		10 00	0 00	
6-7	North	10.00	10 00				20 00	200 00	
7-8	East	29.00		01	28 99 29 00		48 99		0 49
8-9	South	20.00		20 00		01	77 97	1559 40	
9-10	West	7.00				7 00	70 96	0 00	
10-11	South	10.00		10 00			63 96	639 60	
11-12	N. 89° 57' W.	12.91	0 01			12 91	51 05	0 51	
12-1	South	10.00		10 00			38 14		381 40
		157.97	40 01	40 00	39 00	38 97		382 11	2580 89
			40 01	40 01	38 99	38 99			382 11
									20)2198 78
									109 939

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APPROVAL

Office of the United States Surveyor General,

Phoenix, Arizona JUL 19 1917, 191

The foregoing field notes of Homestead Entry Survey No.

422

executed by *R. P. A. Johnson, Surveyor Draftsman* [Forest Service Title.]  
under his special instructions, dated *September 23*, 1915, 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*  
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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**  
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U. S. Surveyor General.