

U. S. DEPARTMENT OF AGRICULTURE
FOREST SERVICE

OCT.-21916

FIELD NOTES

OF

HOMESTEAD ENTRY SURVEY NO. 390

SITUATED IN THE **COCONINO** NATIONAL FOREST

ADMINISTRATIVE DISTRICT NO. 3

In Section **35** , - surveyed, Township **15 N.** , Range **9 E.**

of the

Gila and Salt River Base and Meridian.

State of **ARIZONA**

Applicant for listing **W. J. Randall,** ✓

Residence **Pine, Arizona**

Application No. **255** ✓ , dated **July 12** , 1911 ✓

List No. **3-1609** ✓ , dated **December 5** , 1911 ✓

Applicant for survey **Howard J. Randall,**

Residence **Pine, Arizona**

H. E. No. **018343** ✓ , dated **June 29** , 1912 ✓

Land District **Phoenix, Arizona**

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

Under special instructions dated **July 9** , 1915 ✓

Survey commenced **November 30** , 1915

Survey completed **December 1** , 1915

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. 390, 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

Surveyor *Draftsman*
[Forest Service Title.]

Note: It would have been very expensive and inconvenient to appear before an officer to administer the oaths to Assistants; hence, they were taken by the Surveyor.

W. S. Baer Chairman.
Douglas E. Maister Chairman.

Subscribed and sworn to before me this fifteenth day of December, 1915.

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 July 9, 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

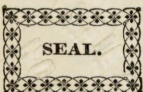
List patent, No. 3-1609, dated December 5, 1911, for Patent, under the Act of June 11, 1906, the same to be known as Homestead Entry Survey No. 390, situated within the Cocorino National Forest, in - surveyed Section 35, Township 15N., Range 9E., and - surveyed Section ---, Township ---, Range ---,

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.

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

Subscribed and sworn to before me this 24th day of March, 1916.

Elsie C. Myers
Notary Public



COCONINO NATIONAL FOREST

STATE OF ARIZONA

Chains

Applicant for listing W. J. Randall; Application No. 255 dated July 12, 1911; List No. 3-1609 dated December 5, 1911; H. E. 018343 made in the Phoenix Land Office on June 29, 1912 by Howard L. Randall. Surveyed under special instructions from the Surveyor

General for Arizona dated July 9, 1915 and designated as Homestead Entry Survey No. 390.

Situated in Sec. 35, T. 15 N., R. 9 E., Gila and Salt River Base and Meridian, Coconino National Forest, Arizona.

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

Survey commenced November 30, 1915, and executed with a Buff and Buff transit No. 9700-6.

I test the adjustments of the transit and make necessary corrections.

All measurements were made directly on the slope with a 500 link steel tape. The slope angles were determined with a clinometer.

November 30, 1915.

(At 2h. 10.5m., p.m., l.m.t., I observe the altitude of the sun for azimuth at Cor. for Secs. 35, 36, 1 and 2, Ts. 14 and 15 N., R. 9 E., hereinafter described. The reading on the reference object is set at Zero and 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° 38' 12" N. Long. 111° 21' 40" W. from special instructions from the Surveyor General.

COCONINO NATIONAL FOREST

STATE OF ARIZONA

Chains	Telescope	Time	Horizontal Angle	Vertical Angle
	Direct	2h. 10m. 00s.	38° 06'	23° 32'
	Reversed	2h. 10m. 40s.	37° 40'	24° 01'
Bearing of reference object N. 0° 18' 07" W.				
<hr/> <p>From cor. for Secs. 1, 2, 35 and 36, Ts. 14 and 15 N., R. 9 E., which is a post with pits, mound and witnesses as described by Surveyor General. Only stub of old post remains. Destroy same and restore cor. as follows:</p> <p>Set a limestone, 24 x 14 x 4 ins., 12 ins. in the ground over a small stone marked with a cross chiseled with 1 notch on E., and 5 notches on West faces.</p> <p>Thence West.</p> <p>On random line bet. Secs. 2 and 35.</p> <p>40.00 Fall 2 lks. N. of 1/4 sec. cor. bet. Secs. 2 and 35 which is described by Surveyor General as post with pits, mound and two witness trees. After careful search I find pits, mound and witness trees but no trace of post. I restore 1/4 cor. as follows:</p> <p>Set granite stone 20 x 10 x 8 ins., 10 ins. in the ground over small stone marked with a cross (+) chiseled 1/4 on N. face and raised mound of stone 3 ft. base, 2 ft. high N. of cor.</p> <p>Thence N. 89° 58' E.</p> <p>On true line bet. Secs. 2 and 35.</p> <p>40.00 Cor. for Secs. 1, 2, 35 and 36.</p> <hr/> <p>Thence North.</p> <p>On random line bet. Secs. 35 and 36.</p>				

COCONINO NATIONAL FOREST

STATE OF ARIZONA

Chains

40.10 Fall 1 lk. E. of 1/4 sec. cor. bet. Secs. 35 and 36, which is a post marked as described by the Surveyor General. Post is partially decayed and one witness tree is missing. Destroy post and restore 1/4 cor. as follows:

Set a limestone 24 x 8 x 4 ins. over a cross (+) on boulder in place chiseled 1/4 on W. face and raise a mound of stone 4 ft. base, 2-1/2 ft. high around cor. to protect it, whence:-

The original witness, a yellow pine 26 ins. dia., bears N. 38° 30' W., 57 lks. dist. blazed and

scribed 1/4 S 35 B T

A yellow pine 24 ins. dia. bears S. 42° 40' E., 18 lks. dist. blazed and

scribed 1/4 S 36 B T

Thence S. 10° 01' E.

On true line bet. Secs. 35 and 36.

40.103 Cor. for Secs. 1, 2, 35 and 36.

November 30, 1915.

December 1, 1915.

At 8h. 47.7m., a.m., l.m.t., I observe altitude of sun for azimuth at Cor. No. 1. The reading on the meridian as determined by direct solar of yesterday is set at Zero and sun was observed in the lower left and upper right quadrants of field.

Lat. 34° 38' 40" N. Long. 111° 21' 40" W. from special instructions from Surveyor General.

Telescope	Time	Horizontal Angle	Vertical Angle
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Direct	8h. 47m. 05s.	40° 57' 00"	21° 35'
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Reversed	8h. 48m. 17s.	41° 16' 30"	21° 15'
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COCONINO NATIONAL FOREST

STATE OF ARIZONA

Chains

This defines a meridian which differs by $0^{\circ} 10' 54''$ from meridian brought by sustained angulation from Cor. for Secs. 1, 2, 35 and 36. To mean of observation all courses of this survey are referred.

Beginning at Cor. No. 1 and CC. on line bet. Secs. 35 and 36.

Identical with Cor. H-5. of the list survey, which is

a limestone $8 \times 6 \times 16$ ins. above ground, marked and

witnessed as described by the Forest Service. I

destroy all trace of this list cor. in place of which

I deposit a stone $6 \times 5 \times 1$ ins. marked with a +

18 ins. in the ground, over which set a limestone

$28 \times 10 \times 6$ ins. chiseled + for the point, CC. on SW.

and 1 - H E S 390 on SSW. faces; and raise a mound

of stone 3 ft. base, 2 ft. high SW. of cor. whence:

A yellow pine 36 ins. dia., bears $N. 80^{\circ} 11' W.$,

64 lks. dist. blazed and scribed 1 H. E. S 390 +

A yellow pine 22 ins. dia., bears $S. 51^{\circ} 14' W.$,

159 lks. dist. blazed and scribed 1 H. E. S 390 +

Cor. for Secs. 1, 2, 35 and 36, heretofore de-

scribed bears $S. 0^{\circ} 01' E.$, 36.22 chs. dist.

1/4 cor. bet. Secs. 35 and 36, heretofore de-

scribed bears $N. 0^{\circ} 01' W.$, 3.88 chs. dist.

Mag. Var. at 8 a.m. is $14^{\circ} 45' E.$ Mean Mag. Var. $14^{\circ} 44' E.$

Lat. $34^{\circ} 38' 40'' N.$ Long. $111^{\circ} 21' 40'' W.$ from special

instructions of the Surveyor General.

Thence $S. 0^{\circ} 01' E.$

Along Sec. line over level land across draw.

COCONINO NATIONAL FOREST

STATE OF ARIZONA

Chains

5.61 Cor. No. 2 and CC. on line bet. Secs. 35 and 36.

Identical with Cor. H-4 of the list survey, which is a limestone 10 x 8 x 10 ins. above ground, marked and witnessed as described by the Forest Service.

I destroy all trace of this list cor. Deposit a stone 4 x 3 x 2 ins. marked with a + 14 ins. in the ground, over which set a limestone 24 x 12 x 8 ins.

chiseled + for the point, CC. on SW. face and 2 - H E S 390 on W. face; raise a mound of stone 3 ft. base, 2 ft. high SW. of cor. whence:

A yellow pine 26 ins. dia., bears S. 49° 39' E.,

45 lks. dist. blazed and scribed 2 H E S 390 +

B T

A yellow pine 20 ins. dia., bears N. 60° 52' E.,

138 lks. dist. blazed and scribed

2 H E S 390 + B T

Cor. to Secs. 1, 2, 35 and 36, heretofore described bears S. 0° 01' E., 30.61 chs. dist.

1/4 cor. bet. Secs. 35 and 36 heretofore described bears N. 0° 01' W., 9.49 chs. dist.

Thence S. 19° 42' W.

Down east side of draw.

0.70 Right bank Willow Valley wash 3 ft. high. Thence down wash.

4.40 Left bank Willow Valley wash and east end earth dam.

4.45 Fence bears ESE. and WNW.

12.20 Cor. No. 3.

Identical with Cor. H-3 of the list survey, which is a limestone 9 x 3 x 8 ins. above ground, marked and witnessed as described by the Forest Service. I destroy all trace of this list cor. Deposit a stone

Chains

6 x 3 x 1 ins. marked with a + 14 ins. in the ground,
over which set a limestone 24 x 14 x 4 ins. chiseled
+ for the point and 3 - H E S 390 on W. face; raise
a mound of stone 2 ft. base, 1-1/2 ft. high W. of
cor. whence:

A yellow pine 18 ins. dia., bears N. 65° 38' E.,

125 lks. dist. blazed and scribed

3 H E S 390 + B T

A yellow pine 26 ins. dia., bears S. 22° 06' E.,

98 lks. dist. blazed and scribed

3 H E S 390 + B T

Thence S. 24° 17' E.

Along foot west slope ascending 10 ft. to cor.

4.80 Fence bears E. and W.

7.49 To Cor. No. 4.

Deposit a stone 2 x 2 x 2 ins. marked with a cross
(+) 22 ins. in the ground, over which set a limestone
32 x 6 x 6 ins. chiseled + for the point and
4 - H E S 390 on W. face; raise a mound of stone
3 ft. base, 2 ft. high W. of cor. whence:

A yellow pine 26 ins. dia., bears S. 23° 00' W.,

118 lks. dist. blazed and scribed

4 H E S 390 + B T

A yellow pine 40 ins. dia., bears N. 61° 01' W.,

109 lks. dist. blazed and scribed

4 H E S 390 + B T

Cor. H-2 of list survey, which is a limestone

8 x 6 x 10 ins. above ground marked and wit-

nessed as described by the Forest Service bears

S. 57° 56' W., 140 lks. dist. I destroy all

trace of this list cor.

COCONINO NATIONAL FOREST

STATE OF ARIZONA

Chains

Thence S. 26° 15' W.

Descend 15 ft. to bottom.

1.27 Fence bears E. and W.

2.00 Fence bears E. and W.

3.65 Enter bottom. Cor. cultivated land bears NW. and SSE.
Thence along edge cultivated land.

8.65 Cor. cultivated land bears NNE. and SW. Ascend 20 ft.
to cor. along W. slope.

13.67 Cor. No. 5 and CC. on line bet. Secs. 2 and 35.
Identical with Cor. H-1 of the list survey, which
is a limestone 10 x 4 x 9 ins. above ground, marked
and witnessed as described by the Forest Service.

I destroy all trace of this list cor. Deposit a
stone 3 x 3 x 2 ins. marked with a + 14 ins. in the
ground, over which set a limestone 24 x 12 x 5 ins.
chiseled + for the point, CC. on NNE. face and

5 - H E S 390 on NW. face; raise a mound of stone
3 ft. base, 2 ft. high NNE. of cor. whence:

A yellow pine 12 ins. dia., bears S. 84° W.,

31 lks. dist. blazed and scribed

5 H E S 390 + B T

A yellow pine 22 ins. dia., bears N. 10° E.,

20 lks. dist. blazed and scribed

5 H E S 390 + B T

Cor. for Secs. 1, 2, 35 and 36 heretofore de-
scribed bears N. 89° 58' E., 7.14 chs. dist.

1/4 cor. bet. Secs. 2 and 35, heretofore de-
scribed bears S. 89° 58' W., 32.86 chs. dist.

Thence S. 89° 58' W.

Along Sec. line. Descend 25 ft. to wash.

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STATE OF ARIZONA

Chains

4.25 Willow Valley wash, 90 lks. wide, 4 ft. deep, course S.
Ascend 10 ft. to cor.

9.22 Cor. No. 6 and CC. on line bet. Secs. 2 and 35.

Identical with cor. H-7 of the list survey, which is a
limestone 9 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

stone 4 x 4 x 1 ins. marked with a + 24 ins. in the
ground, over which set a limestone 34 x 12 x 4 ins.

chiseled + for the point, CC. on NNE. face and
6 H E S 390 on NE. face; raise a mound of stone
3 ft. base, 2 ft. high around cor. to protect it
whence:

A yellow pine 34 ins. dia., bears N. 20° 07' W.,

17 lks. dist. blazed and scribed

6 H E S 390 + B T

A yellow pine 34 ins. dia., bears N. 60° 39' E.,

57 lks. dist. blazed and scribed

6 H E S 390 + B T

Cor. for Secs. 1, 2, 35 and 36 heretofore de-

scribed bears N. 89° 58' E., 16.36 chs. dist.

1/4 sec. cor. bet. Secs. 2 and 35 bears S. 89°

58' W., 23.64 chs. dist.

Thence N. 4° 58' E.

Over level land along edge of timber.

.60 Fence bears ESE. and WNW.

21.20 To Cor. No. 7.

Identical with Cor. H-6 of the list survey, which is a
limestone 9 x 3 x 3 ins. above ground, marked and
witnessed as described by the Forest Service. I

COCONINO NATIONAL FOREST

STATE OF ARIZONA

Chains

destroy all trace of this list cor. Deposit a stone
6 x 5 x 1 ins. marked with a + 18 ins. in the ground,
over which set a limestone 28 x 10 x 6 ins. chiseled
+ for the point and 7 - H E S 390 on E. face; raise
a mound of stone 3 ft. base, 2 ft. high E. of cor.

whence:

A yellow pine 18 ins. dia., bears S. 25° 20' W.,
96 lks. dist. blazed and scribed

7 H E S 390 + B T

A yellow pine 20 ins. dia., bears S. 84° 08' W.,
38 lks. dist. blazed and scribed

7 H E S 390 + B T

Thence N. 43° 59' E.

Over level land along edge of timber.

4.40 Road bears NW. and SE.

5.90 Enter corral.

6.45 Leave corral.

9.60 Fence bears ESE. and WNW.

20.91 Cor. No. 1, the place of beginning.

AREA

Total Area 34.38 acres

IMPROVEMENTS

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

A frame dwelling 36 x 16 ft., the long side of which
bears N. and S. and SE. cor. of which bears N. 64°
50' W., 2.07 chs. dist. from cor. No. 4.

Value \$300.00

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COCONINO NATIONAL FOREST

STATE OF ARIZONA

Chains

A log barn 32. x 30 ft., the long side of which bears
E. and W. and NE. cor. of which bears S. 54° 40' W.
2.04 chs. dist. from cor. No. 4.

Value \$250.00

A well 15 ft. deep, the center of which bears N. 77°
05' W., 5.40 chs. dist. from Cor. No. 4.

Value \$ 20.00

There is approximately one mile of wire fence.

Value \$100.00

DESCRIPTION

This claim lies in Willow Valley six miles N. of Mogollon
Rim and at an elevation of 6,700 ft. The claim con-
sists of narrow open draws with low timbered ridges
to E. and W. The general slope is to S.
Timber consists of scattered yellow pine along boundary
lines of tract.

The soil is a sandy clay, fertile and produces good crops.
There is no water for irrigation and none is necessary.
Water for domestic use is obtained from well but this
is dry a portion of year.

I saw no indication of mineral upon this claim.

There are no conflicting or adjoining claims. School
section lies to south and east.

Flagstaff is the nearest railroad point and is 57 miles
N. by fair wagon road. Pine, the nearest postoffice,
is 33 miles S. by wagon road.

Value \$300.00

HOMESTEAD ENTRY SURVEY NO. 390

COCONINO NATIONAL FOREST

STATE OF ARIZONA

Chains

		TRAVERSE					
Cor.	Course	Dist.	N.	S.	E.	W.	
1-2	S. 0° 01' E.	5.61		5.61			
2-3	S. 19° 42' W.	12.20		11.49 ✓			
3-4	S. 24° 17' E.	7.49		6.83 ✓	3.08 ✓	4.11 ✓	
4-5	S. 26° 15' W.	13.67		12.26 ✓			
5-6	S. 89° 58' W.	9.22		.01 ✓		6.05 ✓	
6-7	N. 4° 58' E.	21.20	21.12 ✓		1.84 ✓	9.22 ✓	
7-1	N. 43° 59' E.	20.91	15.05 ✓		14.52 ✓		
		90.30	36.17	36.20	19.44	19.38	
Error in Lat. and Dep.				36.17	19.38		
				.03	.06		

Error in Lat. and Dep.

Closing error 1:1346 ✓

Survey completed December 1, 1915.

Surveyor - Draftsman.

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HOMESTEAD ENTRY SURVEY NO.

NATIONAL FOREST

STATE OF ARIZONA

Chains

TRAVELER

Chains

Cor.	Course	Dist.	N.	S.	E.	W.
1-2	S. 0° 01' E.	5.51			5.51	
2-3	S. 19° 43' W.	13.30				13.30
3-4	S. 24° 17' E.	7.43			7.43	
4-5	S. 26° 13' W.	13.67				13.67
5-6	S. 29° 28' W.	9.22				9.22
6-7	N. 4° 28' E.	21.30	21.12			
7-1	N. 43° 29' E.	20.91	18.03			
<hr/>						
		20.30	38.17	38.30	19.44	19.38
			38.17	38.30	19.44	19.38
					1.84	
					14.52	
					19.38	
					19.38	
					19.38	

Error in Dist. and Dep.

Closing error 1:1845

Survey completed December 1, 1915.

Surveyor - Draftsman.

HOMESTEAD ENTRY SURVEY NO.390

COCONINO NATIONAL FOREST

STATE OF ARIZONA

Chains

COMPUTATION SHEET.

Direct Solar Nov. 30, 1915 at cor. for secs. 1,2,35 and 36, Ts. 14 and 15 N., R. 9 E.

Lat. 34° 38' 12" N. Long. 111° 21' 40" W. Elevation 6,700 ft.

Telescope	Time	Horizontal Angle	Vertical Angle	Pos. of Sun
Direct	2h.10m.00s.	38° 06'	23° 32'	°+
Reversed	2h.10m.40s.	37° 40'	24° 01'	+°
2)	4h.20m.40s.	75° 46'	47° 33'	
	2h.10m.20s.	37° 53'	23° 46' 30"	
	7h.25m.26s. ✓		1' 43" ref. corr.	
	9h.35m.46s.		23° 44' 47" ✓	

Decl. 21° 35' 23" S.

$$\text{Cos. } Q = \frac{-\sin. 21^\circ 35' 23''}{\cos. 34^\circ 38' 12'' \times \cos. 23^\circ 44' 47''} = \tan. 34^\circ 38' 12'' \times \tan. 23^\circ 44' 47''$$

Log. sin. 21° 35' 23" = 9.565798 ✓
 Log. cos. 34° 38' 12" = 9.915280 ✓
 Log. cos. 23° 44' 47" = 9.961581 ✓
 $\frac{9.688937}{9.961581} = \log. .48858$ ✓
 Log. tan. 34° 38' 12" = 9.839351 ✓
 Log. tan. 23° 44' 47" = 9.643389 ✓
 $\frac{9.482740}{9.643389} = \log. \frac{.30391}{.79249}$ ✓
 Q = 37° 34' 53" ✓

Bearing of reference object N. 0° 18' 07" W. ✓

Direct Solar at Cor. No. 1 on December 1, 1915.

Lat. 34° 38' 40" N. Long. 111° 21' 40" W. Elevation 6,700 ft.

Telescope	Time	Horizontal Angle	Vertical Angle	Pos. of Sun
Direct	8h.47m.05s.	40° 57'	21° 35'	°+
Reversed	8h.48m.17s.	41° 16' 30"	21° 15'	+°
2)	17h.35m.22s.	82° 13' 30"	42° 50'	
	8h.47m.41s.	41° 06' 45"	21° 25'	
	4h.34m.34s.		1' 54" ref. corr.	
	4h.13m. 7s.		21° 23' 06" ✓	

Decl. 21° 42' 56" ✓

FOREST LAND NATIONAL FOREST

STATE OF ARIZONA

Chains

Chains

COMPUTATION SHEET

Direct Solar Nov. 30, 1915 at cor. for ascs. I, S, 25 and

36, Te. 14 and 15 N., R. 2 E.

Lat. 34° 38' 12" N. Long. 111° 40' W. Elevation

6,700 ft.

Telescope	Time	Horizontal Angle	Vertical Angle	Pos. of Sun
Direct	2h. 10m. 00s.	58° 08'	23° 22'	+
Reversed	2h. 10m. 40s.	37° 40'	24° 01'	+
2) 2h. 30m. 40s.	1h. 50m. 40s.	15° 48'	47° 33'	
2h. 10m. 20s.	2h. 10m. 20s.	27° 53'	23° 48' 30"	
2h. 25m. 20s.	2h. 25m. 20s.	1' 45" rel. corr.	1' 45" rel. corr.	
2h. 30m. 40s.	2h. 30m. 40s.	23° 44' 47"	23° 44' 47"	

Decl. 21° 28' 28" S.

Cor. C = Cor. 24° 38' 12" N. X Cor. 23° 44' 47" - sin. 21° 28' 28"

38' 12" X tan. 23° 44' 47"

Loc. tan. 23° 44' 47" = 2.448322	Loc. sin. 21° 28' 28" = 2.587298
Loc. tan. 34° 38' 12" = 2.828881	Loc. cos. 23° 44' 47" = 2.918281
Loc. tan. 34° 38' 12" = 2.828881	Loc. cos. 23° 44' 47" = 2.918281
Loc. tan. 23° 44' 47" = 2.448322	Loc. sin. 21° 28' 28" = 2.587298
Loc. tan. 23° 44' 47" = 2.448322	Loc. sin. 21° 28' 28" = 2.587298
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Loc. tan. 23° 44' 47" = 2.448322	Loc. sin. 21° 28' 28" = 2.587298
Loc. tan. 23° 44' 47" = 2.448322	Loc. sin. 21° 28' 28" = 2.587298

Cor. C = 37° 24' 28"

Bearing of reference object N. 0° 18' 07" W.

Direct Solar at Cor. No. 1 on December 1, 1915.

Lat. 34° 38' 12" N. Long. 111° 40' W. Elevation

6,700 ft.

Telescope	Time	Horizontal Angle	Vertical Angle	Pos. of Sun
Direct	2h. 47m. 00s.	40° 57'	21° 32'	+
Reversed	2h. 46m. 15s.	41° 18' 30"	21° 15'	+
2) 2h. 30m. 20s.	2h. 17' 30" 42' 30"	23° 17' 30"	42° 30"	
2h. 47m. 45s.	2h. 47m. 45s.	41° 06' 45"	21° 32'	
4h. 34m. 34s.	4h. 34m. 34s.	1' 54m rel. corr.	1' 54m rel. corr.	
2h. 13m. 18"	2h. 13m. 18"	21° 28' 28"	21° 28' 28"	

Decl. 21° 42' 58"

HOMESTEAD ENTRY SURVEY NO. 390

COCONINO NATIONAL FOREST

STATE OF ARIZONA

Chains

$$\text{Cos. } Q = \frac{-\sin. 21^\circ 42' 56''}{\text{Cos. } 34^\circ 38' 40'' \times \text{Cos. } 21^\circ 23' 06''} - \tan. 34^\circ$$

$$38' 40'' \times \tan. 21^\circ 23' 06''.$$

Log. sin. 21° 42' 56"	=	+9.568201	✓
Log. cos. 34° 38' 40"	=	-9.915238	
Log. cos. 21° 23' 06"	=	-9.969020	✓
		<u>9.683942</u>	= log. .48300 ✓
Log. tan. 34° 38' 40"	=	9.839477	✓
Log. tan. 21° 23' 06"	=	9.592836	✓
		<u>9.432313</u>	= log. .27059 ✓
		Cos. Q. =	.75359

$$Q = 41^\circ 05' 51''$$

Diff. from obsn. of November 30, 1915. 0° 00' 54".

NATIONAL FOREST

STATE OF ARIZONA

Chains

Chains

Cor. 6 = 41° 08' 51" Cor. 6 = 41° 08' 51" Cor. 6 = 41° 08' 51" Cor. 6 = 41° 08' 51"

38' 40" X tan. 21° 23' 06"

Log. tan. 21° 23' 06" = 3.598836

Log. tan. 34° 38' 40" = 3.839477

Log. cos. 21° 23' 06" = 9.969020

Log. sin. 21° 23' 06" = 3.558201

Log. cos. 34° 38' 40" = 9.812328

Log. tan. 34° 38' 40" = 3.839477

Log. tan. 21° 23' 06" = 3.598836

Cor. 6 = 41° 08' 51" Cor. 6 = 41° 08' 51" Cor. 6 = 41° 08' 51" Cor. 6 = 41° 08' 51"

Cor. 6 = 41° 08' 51"

Dist. from chain of November 30, 1916. Dist. from chain of November 30, 1916. Dist. from chain of November 30, 1916. Dist. from chain of November 30, 1916.

48300

37059

48300

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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.

Howard L. Randall - Coconino

TABLING AND CALCULATIONS OF HOMESTEAD ENTRY SURVEY NO. 390, STATE OF ARIZONA

CORNERS.	BEARING.	DISTANCE.	LATITUDES.			DEPARTURES.		DOUBLE M. D.	N. AREAS.	S. AREAS.	
			NORTH.	SOUTH.	EAST.	WEST.	N. AREAS.				S. AREAS.
1-2	S. 0° 01' E.	5.61		5 61			32 68		183 33		
2-3	S. 19° 42' W.	12.20		11 49		4 11 ¹²	28 56		328 15		
3-4	S. 24° 17' E.	7.49		6 83	3 08		27 51		187 89		
4-5	S. 26° 15' W.	13.67		12 26		6 06 ⁰⁶	24 52		300 37		
5-6	S. 89° 58' W.	9.22		01	3 08	9 22 ²³	9 23		09		
6-7	N. 4° 58' E.	21.20	13	21 12	1 84		1 83	38 67			
7-1	N. 43° 59' E.	20.91	15	15 05	14 52		18 17	273 64			
		90.30	36 17	36 20	19 44	19 38		312 31	999 83		
			36 19	36 19	19 41	19 41		312 31	312 31		
								20) 687 52	34 38 Acres		
	Closing error 1:1346.										

243

EMIT

APPROVAL

Office of the United States Surveyor General,

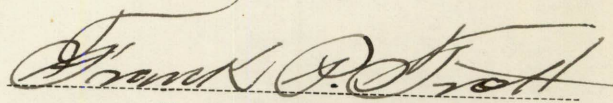
Phoenix, Arizona, June 5 , 1917.

The foregoing field notes of Homestead Entry Survey No.

390

executed by R.P.A. Johnson, Surveyor-Draftsman,
under his special instructions, dated July 9 , 1915, having
been critically examined, and the necessary corrections and explanations
made, the said field notes, and the surveys they describe, are hereby
approved.

[Forest Service Title.]


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.