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U. S. DEPARTMENT OF AGRICULTURE
FOREST SERVICE

OCT-2 1916

JUN 23 1917

FIELD NOTES

OF

JUL 1 - 1918

HOMESTEAD ENTRY SURVEY NO. 392

SITUATED IN THE COCONINO NATIONAL FOREST

ADMINISTRATIVE DISTRICT NO. 3

In Section 4 , unsurveyed, Township 13 N., Range 10 E.

In Section 9 , unsurveyed, Township 13 N., Range 10 E.

of the

Gila and Salt River Base and Meridian.

State of

ARIZONA

Applicants for listing **Norman N. Palmer and Clair Patterson,**

Residence	Pine, Arizona		
Application No. 198 ✓	, dated	October 4	, 1910 ✓
Application No. 608	, dated	June 3	, 1916
List No. 3-1727 ✓	, dated	January 30	, 1912 ✓

Applicant for survey **Clair Patterson,**

Residence **Pine, Arizona**

H. E. No. 022859 ✓ , dated **June 30** , 1913 ✓

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 **December 3** , 1915

Survey completed **December 3** , 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. 392, 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 the oaths to Assistants; hence, they were taken by the Surveyor.

C. Y. Baer, Chairman
Douglas E. Wisister, 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 Dist No. 3-1727, dated January 30 1912 and a tract of land upon the Application of Clair Patterson,

Application , No. 608 , dated June 3 , 1916 , for patent , under the Act of June 11 , 1906 , the same to be known as Homestead Entry Survey No. 392 , situated within the Coconino National Forest, in unsurveyed Section 4 , Township 13N , Range 10E , and unsurveyed Section 9 , Township 13N , Range 10E ,

of the Gila and Salt River Bas 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.

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

Subscribed and sworn to before me this 25th day of March , 1916

Alsie C. Myers
Notary Public



COCONINO NATIONAL FOREST

STATE OF Arizona

Chains

Applicant for listing, Norman N. Palmer; Application No. 198, dated October 4, 1910; List No. 3-1727, dated January 30, 1912; H. E. 022859, made in the Phoenix Land Office on June 30, 1913 by Clair Patterson. 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 No. 022859. Surveyed under special instructions from the Surveyor General for Arizona, dated July 9, 1915 and designated as Homestead Entry Survey No. 392. Situated in unsurveyed T. 13 N., R. 10 E., in what will probably be secs. 4 and 9, 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 December 3, 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. Horizontal distances only appear in these notes.

December 2, 1915.

At 2h. 34.9m. p.m., l.m.t., I observe the altitude of the sun for azimuth at cor. No. 1 of this survey. 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. Latitude $34^{\circ} 33' N.$, Long. $111^{\circ} 18' 20'' W.$, from special instructions from the Surveyor General.

Chains	Telescope	Time	Horizontal Angle	Vertical Angle
	Direct	2h. 33m. 44s.	42° 16' 00"	20° 18' 30"
	Reversed	2h. 34m. 32s.	41° 53' 00"	20° 46' 00"

Bearing of reference object, N. 0° 05' 36" E.

Beginning at cor. No. 1.

Point falls on a limestone boulder in place, 4 x 2 x 1 ft. above ground, chiseled with a cross on top and 1 - H E S 392 on S. face; and raise a mound of stone 3 ft. base, 2 ft. high S. of cor., whence:

A yellow pine, 40 ins. dia., bears S. 34° 16' W., 71 lks. dist., blazed and scribed 1 H E S 392 + B T.

A yellow pine, 20 ins. dia., bears N. 4° 53' E., 84 lks. dist., blazed and scribed 1 H E S 392 + B T.

Cor. H-1 of the list survey, which is a limestone 10 x 3 x 5 ins. above ground, marked and witnessed as described by the Forest Service, bears S. 9° 38' W., 116 lks. dist. I destroy all trace of this list cor.

1/4 sec. cor. on S. line of sec. 33, T. 14 N., R. 10 E., bears N. 4° 43' W., 50.72 chs.

dist., by traverse which appears at the end of these notes. This cor. is a post in mound of stone, marked and witnessed as described by the Surveyor General. The post is partially decayed, therefore destroy same and restore 1/4 cor. as follows:

Set a sandstone 20 x 10 x 6 ins., 10 ins. in the ground, over a small stone marked with a cross, chisel 1/4 on N. face, and raise a mound of rock 3 ft. base, 2 ft.

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STATE OF ARIZONA

Chains	<p>high, N. of cor.</p> <p>Mag. Var. at 3:00 p.m., 14° 45' E. Mean Mag. Var., 14° 47' E.</p> <p>Lat. 34° 33' N., Long. 111° 18' 20" W., from special instructions from the Surveyor General.</p> <p>Thence S. 66° 39' E.</p> <p>Across open draw, descending 15 ft. to arroyo.</p> <p>Over unlisted land.</p> <p>1.20 Arroyo, 30 lks. wide, 4 ft. deep, course NE.</p> <p>1.90 Enter corral.</p> <p>2.50 Leave corral.</p> <p>2.92 Cor. No. 2.</p> <p>Point falls on a limestone boulder, 2 x 2 x 4 ft. above ground. I chisel + for the point and 2 - H E S 392 on W. face; and raise a mound of stone 3 ft. base, 2 ft. high W. of cor., whence:</p> <p>A yellow pine, 18 ins. dia., bears N. 19° 57' E., 23 lks. dist., blazed and scribed 2 H E S 392 + B T.</p> <p>A yellow pine, 18 ins. dia., bears S. 74° 30' E., 25 lks. dist., blazed and scribed 2 H E S 392 + B T.</p> <hr/> <p>Thence S. 21° 37' W.</p> <p>Along West slope, descending 10 ft. in edge of timber.</p> <p>2.30 Fence, bears NW. and SE. Ascend 10 ft. to rocky point.</p> <p>4.20 Rocky point. Descend 10 ft. to cor.</p> <p>9.03 Cor. No. 3.</p> <p>Identical with cor. H-8 of the list survey, which is a limestone 8 x 7 x 7 ins. above ground, marked and witnessed as described by the Forest Service. I destroy all trace of this list cor. Deposit a stone 6 x 4 x 2 ins. marked with a cross, 14 ins. in the ground, over which set a limestone 24 x 8 x 8 ins.,</p>
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Chains chiseled cross for the point and 3 - H E S 392 on W. face; and raise a mound of stone 3 ft. base, 2 ft. high, W. of cor., whence:

A yellow pine, 16 ins. dia., bears N. 9° 30' E., 1.82 lks. dist., blazed and scribed 3 H E S 392 + B T.

A yellow pine, 8 ins. dia., bears S. 17° 18' E., 120 lks. dist., blazed and scribed 3 H E S 392 + B T.

Thence S. 10° 14' E.

Over level land, along edge of timber, Leave unlisted and enter listed land.

19.20 Cor. No. 4. Identical with cor. H-7 of the list survey, which is a limestone 5 x 4 x 7 ins. above ground, marked and witnessed as described by the Forest Service. I destroy all trace of this list cor. Deposit a broken glass 14 ins. in the ground, over which set a limestone 24 x 12 x 6 ins., chiseled cross for the point and 4 - H E S 392 on W. face; raise a mound of stone 3 ft. base, 2 ft. high, W. of cor., whence:

A yellow pine, 18 ins. dia., bears N. 3°

09' E., 95 lks. dist., blazed and

scribed 4 H E S 392 + B T.

A yellow pine, 6 ins. dia., bears N. 64°

45' E., 78 lks. dist., blazed and

scribed 4 H E S 392 + B T.

December 2, 1915.

December 3, 1915.

Thence S. 6° 48' W.

Over level land, along edge of timber.

0.25 Edge of arroyo, 4 ft. deep, course NW.

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Chains	
16.90	Enter arroyo, 4 ft. deep. Continue up arroyo.
19.60	Leave arroyo.
25.38	Cor. No. 5. At fence cor.; fence bears W. and NNE. Identical with cor. H-6 of the list survey, which is a limestone 8 x 5 x 6 ins. above ground, marked and witnessed as described by the Forest Service. I destroy all trace of this list cor. Deposit a stone 6 x 4 x 2 ins. marked with a +, 14 ins. in the ground, over which set a limestone 24 x 14 x 5 ins., chiseled cross for the point and 5 - H E S 392 on W. face; and raise a mound of stone 3 ft. base, 2 ft. high, W. of cor., whence: A yellow pine, 26 ins. dia., bears N. 43° 56' E., 42 lks. dist., blazed and scribed 5 H E S 392 + B T. A yellow pine, 28 ins. dia., bears S. 77° 08' E., 32 lks. dist., blazed and scribed 5 H E S 392 + B T.
	Thence S. 40° 23' W. Over level land, along edge of timber.
8.27	Road, bears S. and NNE.
9.80	Arroyo, 2 ft. deep, 35 lks. wide, course N.
10.64	Cor. No. 6. Identical with cor. H-5 of the list survey, which is a limestone 12 x 4 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 2 x 2 x 3 ins. marked with a cross 14 ins. in the ground, over which set a limestone 24 x 14 x 3 ins., chiseled cross for the point and 6 - H E S 392 on W. face; and raise a mound of stone 3 ft. base, 2 ft. high, W. of cor., whence:

Chains	<p>A yellow pine, 16 ins. dia., bears S. 17° 54' E., 86 lks. dist., blazed and scribed 6 H E S 392 + B T.</p> <p>A yellow pine, 14 ins. dia., bears S. 57° 17' W., 43 lks. dist., blazed and scribed 6 H E S 392 + B T.</p>
	<p>Thence N. 22° 11' E.</p> <p>Over level land. Along arroyo.</p> <p>0.83 Enter arroyo, 2 ft. deep, course N.</p> <p>1.45 Leave arroyo, 2 ft. deep, course N.</p> <p>✓ 5.40 Enter arroyo, 3 ft. deep, course NNE.</p> <p>7.57 Leave arroyo, 3 ft. deep.</p> <p>8.85 Fence, bears E. and W.</p> <p>9.00 Enter arroyo, 3 ft. deep, course NE.</p> <p>13.07 Leave arroyo, 3 ft. deep.</p> <p>14.09 Cor. No. 7.</p> <p>Identical with cor. H-4 of the list survey, which is a limestone boulder in place 8 x 8 x 3 ft. above ground, marked and witnessed as described by the Forest Service. I destroy all trace of this list cor. and chisel same boulder cross for the point and 7 - H E S 392 on E. face; and raise a mound of stone 3 ft. base, 2 ft. high, E. of cor., whence:</p> <p>A yellow pine, 16 ins. dia., bears S. 89° 36' W., 40 lks. dist., blazed and scribed 7 H E S 392 + B T.</p> <p>A yellow pine, 14 ins. dia., bears S. 55° 51' W., 35 lks. dist., blazed and scribed 7 H E S 392 + B T.</p>
	<p>Thence N. 5° 27' E.</p> <p>Over level land, along edge of timber.</p> <p>20.02 Cor. No. 8.</p>

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STATE OF ARIZONA

Chains

Identical with cor. H-3 of the list survey, which is a limestone 10 x 7 x 8 ins. above ground, marked and witnessed as described by the Forest Service. I de-
stroy all trace of this list cor. Deposit a stone 6 x 5 x 2 ins. marked with a cross 14 ins. in the ground, over which set a limestone 24 x 10 x 8 ins., chiseled cross for the point and 8 - H E S 392 on E. face; and raise a mound of stone 3 ft. base, 2 ft. high, E. of cor., whence:

A yellow pine, 4 ins. dia., bears S. 58° 55' W., 35 lks. dist., blazed and scribed 8 H E S 392 + B T.

A yellow pine, 4 ins. dia., bears N. 58° 31' W., 34 lks. dist., blazed and scribed 8 H E S 392 + B T.

Thence N. 11° 13' W.

Over level land, along edge of timber. Leave listed and enter unlisted land.

5.80 Enter arroyo, 4 ft. deep, course N.

9.20 Leave arroyo, 4 ft. deep, course N.

19.06 Cor. No. 9.

Deposit a stone 5 x 3 x 2 ins., marked with a cross 14 ins. in the ground, over which set a limestone 24 x 6 x 6 ins., chiseled cross for the point and 9 - H E S 392 on N. face; and raise a mound of stone 3 ft. base, 2 ft. high, N. of cor., whence:

A yellow pine, 28 ins. dia., bears N. 43° 49' W., 203 lks. dist., blazed and scribed 9 H E S 392 + B T.

A yellow pine, 30 ins. dia., bears S. 90° 07' W., 194 lks. dist., blazed and scribed 9 H E S 392 + B T.

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Chains	Thence S. 37° 00' W.
	Over level land, along edge of timber.
25.37	Cor. No. 10.
	Deposit a stone 4 x 4 x 4 ins. marked with a cross, 14 ins. in the ground, over which set a limestone 24 x 10 x 5 ins., chiseled cross for the point and 10 - H E S 392 on N. face; and raise a mound of stone 2 ft. base, 1-1/2 ft. high, N. of cor., whence:
	A yellow pine, 20 ins. dia., bears S. 13° E., 8 lks. dist., blazed and scribed
	10 H E S 392 + B T.
	A yellow pine, 6 ins. dia., bears N. 12°
	05' W., 26 lks. dist., blazed and
	scribed 10 H E S 392 + B T.
	Thence N. 21° 34' W.
	Across draw in open.
4.11	Cor. No. 11.
	Point falls on a limestone boulder in place, showing
	8 x 4 x 4 ft. above ground. I chisel cross for the
	point and 11 - H E S 392 on SE. face, whence:
	A yellow pine, 6 ins. dia., bears N. 23°
	08' E., 15 lks. dist., blazed and
	scribed 11 H E S 392 + B T.
	A yellow pine, 8 ins. dia., bears N. 26°
	30' W., 10 lks. dist., blazed and
	scribed 11 H E S 392 + B T.
	Pits and mound impracticable.
	Thence N. 60° 22' E.
	Along foot SE. slope in edge of timber.
4.49	Cor. No. 12.
	Deposit a stone 8 x 4 x 2 ins., marked with a cross, 14 ins. in the ground, over which set a limestone

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Chains

24 x 14 x 6 ins., chiseled cross for the point and
12 - H E S 392 on S. face; and raise a mound of stone
3 ft. base, 2 ft. high, S. of cor., whence:

A yellow pine, 44 ins. dia., bears N. 44°
22' W., 23 lks. dist., blazed and
scribed 12 H E S 392 + B T.

A yellow pine, 36 ins. dia., bears N. 0°
15' W., 34 lks. dist., blazed and
scribed 12 H E S 392 + B T.

At 2h. 34.9m. p.m., l.m.t., I observe the altitude of
the sun for azimuth at cor. No. 12 of this survey.

The reading on the meridian brought by sustained
angulation from cor. No. 1 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. Latitude 34° 32' 45" N., Longitude 111°
18' 33" W., by account from special instructions from
the Surveyor General.

Telescope	Time	Horizontal Angle	Vertical Angle
Direct	2h. 34m. 29s.	42° 21' 00"	20° 08' 30"
Reversed	2h. 35m. 16s.	41° 58' 00"	20° 36' 30"

This defines a meridian which differs 0° 00' 54" from
the meridian determined by direct solar on December

2, 1915, at cor. No. 1. The improvements made upon
to the mean of these two observations, all the courses
of this survey are referred.

Thence N. 87° 35' E.

Along foot SW. slope in edge of timber.

21.55 Cor. No. 13.

Point falls on a limestone boulder in place, showing
8 x 6 x 5 ft. above ground. I chisel cross at the
point and 13 - H E S 392 on E. face; and raise a mound
of stone 3 ft. base, 2 ft. high, E. of cor., whence:

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Chains

A yellow pine, 28 ins. dia., bears S. 65°

53' W., 41 lks. dist., blazed and

scribed 13 H E S 392 + B T.

A yellow pine, 20 ins. dia., bears N. 6°

47' E., 58 lks. dist., blazed and

scribed 13 H E S 392 + B T.

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

limestone 8 x 6 x 4 ins. above ground,

marked and witnessed as described by the

Forest Service, bears S. 63° 15' E., 30

lks. dist. I destroy all trace of this

list cor.

Thence N. 25° 34' E.

Along foot of E. slope in open.

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

AREA

Listed Area - - - - - 13.53 acres

Unlisted Area - - - - - 7.65 acres

Total Area - - - - - 21.18 acres

IMPROVEMENTS

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

A log dwelling house, 18 x 16 ft., the long side of which bears N. and S. and the SW. cor. of which bears N. 7° 51' E., 21 lks. dist. from cor. No. 9.

Value -----\$150.00

A log barn, 36 x 25 ft., the long side of which bears E. and W. and the SW. cor. of which bears N. 1° 54' W., 2.85 chs. dist. from cor. No. 3.

Value -----\$250.00

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Chains

There is approximately one and a half miles of wire fencing.

Value ----- \$175.00

DESCRIPTION

This claim lies on top of Mogollon Rim, at an elevation of 7000 ft., four miles East and seven miles North of rim. It consists of a long, very narrow open draw between Long Valley and Clear Creek. The land has a slight general slope to the N. and consists of open draw with heavily timbered slopes on all sides.

The soil is a rich black loam of good depth, fertile and produces good crops.

There is no timber with exception of a few yellow pine trees along boundary lines.

There is no water for irrigation and none is necessary, the annual rainfall being sufficient to produce crops.

Water for domestic use can be obtained from Clint's Well, two miles distant.

There is approximately three acres in cultivation.

I saw no indications of mineral upon the claim.

CONFLICTS AND ADJOINING CLAIMS.

There are no conflicting or adjoining claims.

Flagstaff, the nearest railroad point, lies 65 miles to North and is reached by good wagon road 63 miles of the distance. Pine, the nearest post office, is 25 miles to South and is reached by good wagon road for all but first 2 miles of distance.

H.E.S. 88 - 174 and 178 lie about 3/4 of a mile west of this claim.

Chains	TRAVERSE						
	Cor.	Course	Dist.	N	S	E	W
00.00	1-2	S. 66° 39' E.	2.92		1.16	2.68	
	2-3	S. 21° 37' W.	9.03		8.39		3.33
	3-4	S. 10° 14' E.	19.20		18.89	3.41	
	4-5	S. 6° 48' W.	25.38		25.20		3.01
	5-6	S. 40° 23' W.	10.64		8.10		6.89
	6-7	N. 22° 11' E.	14.09	13.05		5.32	
	7-8	N. 5° 27' E.	20.02	19.93		1.90	
	8-9	N. 11° 13' W.	19.06	18.70			3.71
	9-10	S. 37° 00' W.	25.37		20.26		15.27
	10-11	N. 21° 34' W.	4.11	3.82			1.51
	11-12	N. 60° 22' E.	4.49	2.22		3.90	
	12-13	N. 37° 35' E.	21.53	17.06		13.13	
	13-1	N. 25° 34' E.	7.98	7.20		3.44	
			183.82	81.98	82.00	33.78	33.72
					81.98	33.72	

Error in Lat. and Dep. .02 .06

Closing error, 1:2906.

Survey Tie cor. No. 1 to 1/4 cor. on S. bdy. sec. 33, T. 14 N., R. 10 E.

Course	Dist.	N	S	E	W
N. 0° 03' W.	42.78	42.78			0.04
N. 27° 58' W.	8.80	7.77			4.13
		50.55			4.17

1/4 cor. bears N. 4° 43' W., 50.72 chs.

Survey completed December 3, 1915.

R. L. Johnson

Surveyor & Draftsman

HOMESTEAD ENTRY SURVEY NO. 392

COCONINO NATIONAL FOREST

STATE OF ARIZONA

Chains Direct solar at cor. No. 1, December 2, 1915.
Lat. 34° 33' N., Long. 111° 18' 20" W., Elevation 7000 ft.

Telescope	Time	Horizontal Angle	Vertical Angle	Pos. Sun
Direct	2h. 33m. 44s.	42° 16' 00"	20° 18' 30"	+
Reversed	2h. 34m. 32s.	41° 53' 00"	20° 46' 00"	+
Mean	<u>2h. 34m. 08s.</u>	<u>42° 04' 30"</u>	<u>20° 32' 15"</u>	
	7h. 25m. 13s. ✓		02' 01" ✓	ref.cor.
	<u>9h. 59m. 21s.</u>		<u>20° 30' 14"</u>	

Decl. 21° 54' 33" S.

$$\text{Cos. } Q. = \frac{-\sin. 21^\circ 54' 33''}{\cos. 34^\circ 33' \times \cos. 20^\circ 30' 14''}$$

$$\frac{\tan. 34^\circ 33' \times \tan. 20^\circ 30' 14''}{}$$

log. sin. 21° 54' 33"	= + 9.571868 ✓
log. cos. 34° 33' 00"	= - 9.915733 ✓
log. cos. 20° 30' 14"	= - 9.971577 ✓
	<u>9.684558</u> = log. .48368 ✓
log. tan. 34° 33' 00"	= 9.837946 ✓
log. tan. 20° 30' 14"	= 9.572828 ✓
	<u>9.410774</u> = log. .25750 ✓

Cos. Q. = .74118 ✓

Q. = 42° 10' 06" ✓

Bearing of reference object, N. 0° 05' 36" E. ✓

Direct solar at cor. No. 12, December 3, 1915.
Lat. 34° 32' 45" N., Long. 111° 18' 33" W., Elev. 7000 ft.

Telescope	Time	Horizontal Angle	Vertical Angle	Pos. Sun
Direct	2h. 34m. 29s.	42° 21' 00"	20° 08' 30"	+
Reversed	2h. 35m. 16s.	41° 58' 00"	20° 36' 30"	+
Mean	<u>2h. 34m. 52s.</u>	<u>42° 09' 30"</u>	<u>20° 22' 30"</u>	
	7h. 25m. 13s.		02' 02" ✓	ref.cor.
	<u>10h. 00m. 05s.</u>		<u>20° 20' 28"</u>	

Decl. 22° 03' 25" S.

$$\text{Cos. } Q. = \frac{-\sin. 22^\circ 03' 25''}{\cos. 34^\circ 32' 45'' \times \cos. 20^\circ 20' 28''}$$

$$\frac{\tan. 34^\circ 32' 45'' \times \tan. 20^\circ 20' 28''}{}$$

log. sin. 22° 03' 25"	= + 9.574642 ✓
log. cos. 34° 32' 45"	= - 9.915755 ✓
log. cos. 20° 20' 28"	= - 9.972036 ✓
	<u>9.686851</u> = log. .48624 ✓
log. tan. 34° 32' 45"	= 9.837878 ✓
log. tan. 20° 20' 28"	= 9.569054 ✓
	<u>9.406932</u> = log. .25523 ✓

Cos. Q. = .74147 ✓

Q. = 42° 08' 36" ✓

Angle with previously determined meridian, 0° 00' 54" ✓

NATIONAL FOREST

STATE OF

Chains	Vertical Angle	Horizontal Angle	Time	Telescope	Direct solar at cor. No. 1, December 3, 1916.
7000 ft.	30° 18' 30"	42° 15' 00"	32m. 44s.	Direct	Lat. 34° 23' 48" N., Long. 111° 18' 33" W., Elevation 7000 ft.
	30° 18' 30"	41° 58' 00"	32m. 32s.	Reversed	
	30° 18' 30"	42° 02' 30"	32m. 08s.	Mean	
	30° 18' 30"		32m. 12s.		
	30° 18' 30"		32m. 31s.		
Decl. 21° 54' 38" S.					
Cos. C. = - sin. 21° 54' 38"					
cos. 24° 38' x cos. 20° 30' 14"					
tan. 24° 38' x tan. 20° 30' 14"					
log. sin. 21° 54' 38" = + 9.571888					
log. cos. 24° 38' 00" = - 9.917833					
log. cos. 20° 30' 14" = - 9.971977					
log. tan. 24° 38' 00" = 9.857248					
log. tan. 20° 30' 14" = 9.678888					
log. tan. 20° 30' 14" = 9.678888					
log. tan. 20° 30' 14" = 9.678888					
Cos. C. =					
C. = 42° 08' 00"					
Bearing of reference object, N. 0° 00' 00" E.					
Direct solar at cor. No. 12, December 3, 1916.					
7000 ft.	30° 08' 30"	42° 21' 00"	32m. 28s.	Direct	Lat. 34° 23' 48" N., Long. 111° 18' 33" W., Elev. 7000 ft.
	30° 08' 30"	41° 58' 00"	32m. 18s.	Reversed	
	30° 08' 30"	42° 02' 30"	32m. 08s.	Mean	
	30° 08' 30"		32m. 12s.		
	30° 08' 30"		32m. 31s.		
Decl. 22° 03' 25" S.					
Cos. C. = - sin. 22° 03' 25"					
cos. 24° 38' x cos. 20° 30' 14"					
tan. 24° 38' x tan. 20° 30' 14"					
log. sin. 22° 03' 25" = + 9.574843					
log. cos. 24° 38' 00" = - 9.917833					
log. cos. 20° 30' 14" = - 9.972033					
log. tan. 24° 38' 00" = 9.857248					
log. tan. 20° 30' 14" = 9.678888					
log. tan. 20° 30' 14" = 9.678888					
log. tan. 20° 30' 14" = 9.678888					
Cos. C. =					
C. = 42° 08' 30"					
Angle with previously determined meridian, 0° 00' 00"					

DIRECTIONS.—1. Carry out calculations to two decimals only.
 2. In balancing Latitudes and Departures do not obliterate or change 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.

TABLING AND CALCULATIONS OF HOMESTEAD ENTRY SURVEY NO. 322, STATE OF ARIZONA.

CORNERS.	BEARING.	DISTANCE.	LATITUDES.		DEPARTURES.		DOUBLE M. D.	N. AREAS.	S. AREAS.
			NORTH.	SOUTH.	EAST.	WEST.			
1-2	S. 66° 39' E.	2.92		1 16	2 68		43 60	50 58 ✓	
2-3	S. 21° 37' W.	9.03		8 39	40 33		42 95	360 35 ✓	
3-4	S. 10° 14' E.	19.20		18 89	3 41		43 02	812 65 ✓	
4-5	S. 6° 48' W.	25.38		25 20	3 01		43 40	1093 25 ✓	
5-6	S. 40° 23' W.	10.64		8 10	6 89		33 49	271 27 ✓	
6-7n	N. 22° 11' E.	14.09	13 05		5 32		31 92	416 56 ✓	
7-8	N. 5° 27' E.	20.02	19 93		1 90		39 13	779 86 ✓	
8-9	N. 11° 13' W.	19.06	18 70		3 71		37 30	697 51 ✓	
9-10	S. 37° 00' W.	25.37	20 26		15 27		18 30	370 58 ✓	
10-11	N. 21° 34' W.	4.11		3 82			1 51	5 77 ✓	
11-12	N. 60° 22' E.	4.49		2 22	3 90		3 90m	8 66 ✓	
12-13	N. 37° 35' E.	21.53	17 06		13 13		20 92	356 90	
13-1	N. 25° 34' E.	7.98	7 20		3 44		37 48	269 86 ✓	
		183.82	81 98	82 00	33 78	33 72	2535 12	2958 68 ✓	
			81 98	81 98	33 75	33 75		2535 12	
								423 56	
								21 178 Acres.	
	Closing error, 1:2906.								

EMH

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.
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TABLING AND CALCULATIONS OF HOMESTEAD ENTRY SURVEY NO. 392, STATE OF Arizona.

CORNERS.	BEARING.	DISTANCE.	LATITUDES.		DEPARTURES.		DOUBLE M. D.	N. AREAS.	S. AREAS.
			NORTH.	SOUTH.	EAST.	WEST.			
		Tie cor. No. 1 to 1/4 cor. on S. bdy. sec. 35, T. 14 N., R. 10 E.							
cor. 1 - Tp. 1	N. 0° 03' W.	42.78	42.78			0.04			
Tp. 1 - 1/4 cor.	N. 27° 58' W.	8.80	7.77			4.13			
	1/4 cor. bears N. 4° 43' W., 50.72 chs.		50.55			4.17			

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APPROVAL

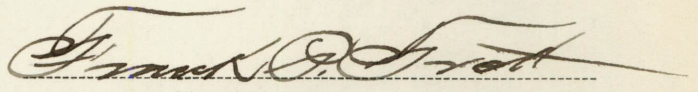
Office of the United States Surveyor General,

Phoenix, Arizona, August 2 , 1917

The foregoing field notes of Homestead Entry Survey No.

392

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


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.