

U. S. DEPARTMENT OF AGRICULTURE  
FOREST SERVICE

AUG 2 1915

JUN 8 1914

**FIELD NOTES**

OF

HOMESTEAD ENTRY SURVEY NO. 121

SITUATED IN THE

TONTO NATIONAL FOREST

ADMINISTRATIVE DISTRICT NO. 3

in

Section 9, unsurveyed, Township 11 N., Range 10 E.

of the

Gila and Salt River Base and Meridian.

ARIZONA

Survey executed by W. H. Finigan, Forest Service Surveyor

Under special instructions dated November 8, 1913

Survey commenced December 17, 1913

Survey completed December 23, 1913

Under Acts of June 11, 1906 and March 4, 1913.

Applicant for listing S. J. Holder

Residence Angora, Arizona

Application No. 5, dated September 12, 1906

List No. 1225, dated April 2, 1908

Applicant for survey Arthur L. Neal

Residence Payson, Arizona

H. E. No. 07713, dated December 14, 1909

Land district Phoenix, Arizona.

OATH OF ASSISTANTS

We hereby certify that we assisted W. H. Finigan  
Forest Service Surveyor in surveying all those  
parts or portions of Homestead Entry Survey No. 121, in  
un surveyed Section 9, Township 11 N., Range 10 E.,  
-- surveyed Section -----, Township -----, Range -----,  
-----  
of the G. and S.R.B. & meridian, State of Arizona, which  
are represented in the following field notes as having been  
surveyed by him and under his direction; and that said sur-  
vey 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 fur-  
nished by the United States Surveyor General for Arizona

L. Vernon Slonakey, Chairman  
Ed Baecht Chairman.

Subscribed and sworn to before me this 14th day of  
February, 1944.

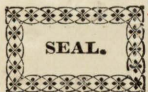
*Commissioner of Public Lands*  
*Feb. 20th 1944*  
Henry A. Randall  
Notary Public

OATH OF SURVEYOR

I, W. H. Finigan, Forest Service Surveyor do solemnly swear  
that, in strict conformity with the special instructions of  
the United States Surveyor General for Arizona, dated  
November 8, 1913, and the laws of the United States, I have  
well, faithfully, and truly, in my own proper person, sur-  
veyed a tract of land ~~upon the application of~~ embraced  
in List, No. 1225, dated April 2, 1908, for  
Patent, under the Act of June 11, 1906,  
the same to be known as Homestead Entry Survey No. 121,  
situated within the Tonto National Forest, in  
un surveyed Section 9, Township 11 N., Range 10 E., and  
-- surveyed Section -----, Township -----, Range -----,  
-----  
of the G. and S.R.B. & 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 perpet-  
uated in strict accordance with the stated special instruc-  
tions, and in the specific manner described in the field  
notes, and that the following are the original field notes  
of such survey.

W. H. Finigan  
Forest Service Surveyor

Subscribed and sworn to before me this 14th day of  
February, 1944.



*Commissioner of Public Lands*  
*Feb. 20th 1944*  
Henry A. Randall  
Notary Public

HOMESTEAD ENTRY SURVEY NO. 121

TONTO NATIONAL FOREST

ARIZONA

Chains Applicant for listing, S. J. Holder; Application No. 5, dated September 12, 1906; List No. 1225, Dated April 2, 1908; H. E. No. 07713 made by Arthur L. Neal at Phoenix, Arizona, dated December 14, 1909.

Surveyed under special instructions from the Surveyor General for Arizona, dated November 8, 1913, and designated as Homestead Entry Survey No. 121.

This survey is based on listing under the Act of June 11, 1906 and authorized by the Acts of June 11, 1906 and March 4, 1913.

This survey is located in approximately sec. 9, unsurveyed T. 11 N., R. 10 E., of the Gila and Salt River Base and Meridian within the Tonto National Forest, Arizona.

This survey was executed with a W. and L. E. Gurley light mountain transit with vertical circle and Burt solar attachment.

The distances were measured with a 200 link steel tape directly on the slope and the slope angles determined with a clinometer.

The courses of this survey were deflected from the true meridian as determined by direct solar observation.

December 19, 1913: At 9 h. 40 m., a.m., l.m.t., observe the alt. of sun for azimuth at cor. No. 5, as follows:

| Angle rt. Ref. Pt. to Sun. | Obs. alt. of Sun | Position Sun | Position Telescope. |
|----------------------------|------------------|--------------|---------------------|
| 158° 12-1/2'               | 23° 36'          | +            | Direct              |
| 158° 21-1/2'               | 23° 31'          | +°           | Reversed.           |

The resulting course from cor. No. 5 to reference point is N. 12° 57' W.

On meridian corresponding to the above observation I test the Burt solar and find it to be in adjustment.

Lat. 34° 20' 30" N., Long. 111° 20' W.

Chains December 19, 1913: At 2 h. 50 m. p.m., l.m.t., at cor. No. 7 observe sun's altitude for azimuth as follows:

| Angle rt. Ref. Pt. to Sun | Obs. alt. of Sun | Position of Sun | Position Telescope |
|---------------------------|------------------|-----------------|--------------------|
| 129° 39'                  | 19° 34'          | ☉               | Direct             |
| 129° 35'                  | 19° 51'          | ☉               | Reversed           |

The resulting course from cor. No. 7 to reference point is S. 88° 41' E.  
The meridian corresponding to this observation agrees with that from courses initiated from the first obsn.

December 20, 1913:

There being no public land corner nor U. S. Locating Monument within two miles of this survey, I establish U. S. Locating Monument No. 121 H. E. S., which is located on North end of ridge, having a general course of S. 70° E. and N. 70° W., at point where ridge begins to slope to East Verde Creek about 400 ft. above creek bed and about 22 chs. S. 60° 30' W. from the junction East Verde and Weber Creeks. Set a limestone 36 x 16 x 6 ins. 6 ins. in ground on rock, in mound of stone, chiseled U S L M No. 121 H E S on NW. face; raise mound of stone 6 ft. base, 4 ft. high alongside, whence A cedar 8 ins. in dia., scribed U S L M No. 121 H E S B T, bears S. 2° 57' W. 139.5 lks. + B R U S L M No. 121 H E S chiseled on top of limestone boulder showing 1/2 x 3 x 2 ft. above ground bears S. 68° 09' E. 79.5 lks. North Peak bears S. 35° 55' W. Matazal Peak bears S. 22° 27' W. Ord. Mt. bears S. 8° 19' W. Cor. No. 1 of this survey bears N. 32° 01' E. 15.49 chs. Located approximately in sec. 9, T. 11 N., R. 10 E. Lat. 34° 20-1/2' N. Longitude 111° 20' West.

|        |  |
|--------|--|
| Chains | <p>December 17, 1913:</p> <p>Beginning at cor. No. 1.</p> <p>Identical with cor. No. 5 of list, which is a limestone 10 x 24 x 12 ins. above ground, marked and witnessed as described in field notes of listing survey. Destroy same and set a limestone 24 x 10 x 6 ins. 14 ins. in ground, over stone marked +, chiseled 1-HES121 on side facing claim; raise mound of stone 2 ft. base, 1-1/2 ft. high, 3-1/2 ft. dist. within claim; whence,</p> <p>A walnut 8 ins. dia., scribed 1 H E S 121 B T bears N. 8° 28' W. 33 lks.</p> <p>A cedar 20 ins. dia., scribed 1 H E S 121 B T bears S. 57° 29' W. 131 lks.</p> <p>U.S.L.M. No. 121 H.E.S., heretofore described, bears S. 32° 01' W. 15.49 chs.</p> <p>Mag. Va. at 11 a.m., 15° 15' E. Mean Mag. Va. 15° 14' E.</p> <hr/> <p>Thence West</p> <p>Along west slope canyon about 50 ft. above bed of creek, thru scattered timber.</p> <p>14.00 Begin desc. Leave scattered timber.</p> <p>19.41 To W. C. Cor. No. 2.</p> <p>A limestone 24 x 12 x 6 ins., set 14 ins. in ground, over stone marked +, chiseled W C 2-HES121 on side facing claim; raise mound of stone 2 ft. base, 1-1/2 ft. high, 3-1/2 ft. dist. within claim; whence</p> <p>A sycamore 10 ins. dia., scribed W C 2 H E S 121 B T bears N. 87° 32' W. 48 lks.</p> <p>An oak 6 ins. dia., scribed W C 2 H E S 121 B T bears S. 20° 52' E. 38 lks.</p> <p>19.75 Desc. bank 20 ft. high, bears NE. and SW. Enter wash of East Verde Creek.</p> <p>21.77 To position for cor. No. 2, which falls in wash of East Verde Creek, therefore establish W.C. on each of the</p> |
|--------|--|

Chains

intersecting lines.

Identical with position for cor. No. 4 of list, which I fail to find, but the location of which I determine as hereinafter stated.

Lat. by Burt solar 34° 20-1/2' N.

Thence S. 64° 0' W.

Over level wash of East Verde.

2.49 To W.C. cor. No. 2.

A willow, 16 ins. in dia., scribed WC-2-HES121 on side facing claim and + on NE. face for exact point; raise mound of stone 2 ft. base, 1-1/2 ft. high, 3-1/2 ft. dist. within claim; whence,

A sycamore 8 ins. dia., scribed W.C. 2 H E S 121 B T bears S. 21° 15' E. 16.5 lks.

A cottonwood 10 ins. dia. scribed W.C. 2 H E S 121 B T, bears N. 62° 0' E. 82.5 lks.

5.90 Enter Verde Creek, 60 lks. wide, course SW. Thence along bed of creek.

11.00 Road, bears N. and S.

13.70 Leave Creek bed, thence over wash of creek.

16.20 Ascend bank 10 ft. high, bears NE. and SW.

16.40 Wire fence, bears NE. and SW. Enter cultivated field.

18.30 Wire fence, bears NE. and SW. and irrigation ditch, course S. Leave cultivated field. Asc. steep slope hill thru heavy brush.

19.36 To cor. No. 3.

On slope hill 50 ft. above cultivated land.

Identical with cor. No. 3 of list, which is a sandstone rock in place, marked and witnessed as described, shows 3 x 3 x 1-1/2 ft. above ground. Destroy marks and chisel same rock + on top for exact point and 3-HES121 on side facing claim; raise mound of stone 2 ft. base, 1-1/2 ft. high, 3-1/2 ft. dist. within claim; whence,

HOMESTEAD ENTRY SURVEY NO. 121

THE TONTO NATIONAL FOREST

ARIZONA

|        |   |
|--------|---|
| Chains | A cedar 16 ins. dia., scribed 3 H E S 121 B T   |
|        | bears S. 31° 25' W. 101 lks.  |
|        | A cedar 9 ins. dia., scribed 3 H E S 121 B T  |
|        | bears N. 55° 16' W. 17 lks.   |
|        | Cor. No. 2 H. E. S. 122, Forest Hale, Claimant,   |
|        | bears N. 88° 54' W. 16.57 chs.  |
|        | December 18, 1913.  |
|        | Thence N. 0° 36' W.   |
|        | Desc. gradually along slope of hill thru heavy undergrowth.   |
| 3.90   | Board fence, bears E. and W.  |
| 8.40   | Spring bears 40 lks. east.  |
| 10.00  | Asc. along East slope ridge thru brush  |
| 15.70  | Stone wall, bears NE. and SW. Top of ascent 150 ft. above cultivated field, bears NE. and SW. Thence along W. slope hill thru brush.  |
| 19.96  | To cor. No. 4.  |
|        | Identical with cor. No. 2 of list, which is a limestone rock in place showing 1 x 7 x 6 ft. above ground, marked and witnessed as described in field notes of listing survey. Destroy marks and chisel same rock + on top for exact point and 4-HES121 on side facing claim; raise mound of stone 2 ft. base, 1-1/2 ft. high, 3-1/2 ft. dist. within claim; whence, |
|        | A juniper 14 ins. dia. scribed 4 H E S 121 B T  |
|        | bears S. 75° 24' E. 159.5 lks.  |
|        | + B R 4 H E S 121 chiseled on top limestone rock in place showing 1 x 3 x 3 ft. above ground, bears S. 14° 08' W. 35 lks.   |
|        | Thence S. 89° 56' E.  |
|        | Ascending thru brush.   |
| 3.00   | Top ascent on ridge, bears NE. and SW. 200 ft. above  |

|        |  |
|--------|--|
| Chains | cultivated field.  |
| 4.00   | Observe alt. sun for lat. Sun's center $32^{\circ} 17'$ , therefore lat. is $34^{\circ} 20\text{-}1/2'$ N.   |
| 11.65  | Stone wall, bears NW. and SE.  |
| 12.70  | Spring bears S. 2.30 chs.  |
| 15.00  | Wash, 15 lks. wide; 2 ft. deep, course SW.   |
| 17.60  | Foot descent in bottom draw 175 ft. below top ridge. Asc.  |
| 42.00  | Top ascent on ridge 100 ft. high, bears N. and S. Desc.  |
| 48.00  | Cor. wire fence, bears S. 40 lks.  |
| 55.00  | Irrigation ditch, course South.  |
| 56.20  | Weber Creek, 45 lks. wide, course S. Asc.  |
|        | December 19, 1913.   |
| 59.40  | Top ascent on ridge, 40 ft. high, bears N. and S. Desc.  |
| 64.00  | Wire fence, bears NE. and SW.  |
| 66.00  | Wire fence, bears NE. and SW.  |
| 67.60  | East Verde Creek, 70 lks. wide, course SW. Asc. steep bank 65 ft. high. Asc.   |
| 77.00  | Top ascent on ridge, bears NW. and SE. 125 ft. high, Desc. very steep rock bank.   |
| 79.32  | To cor. No. 5.   |
|        | At west side of East Verde Creek, 30 lks. wide.  |
|        | Identical with cor. No. 1 of list, which is a prominent limestone ledge in place showing 2 x 4 x 50 ft. above ground, marked and witnessed as described in field notes of listing survey. Destroy marks and chisel same ledge + on top for exact point and 5-HES121 on top toward claim; raise mound of stone 2 ft. base 1-1/2 ft. high, 3-1/2 ft. dist. within claim; whence, |
|        | A cottonwood 14 ins. dia., scribed 5 H E S 121 B T bears N. $32^{\circ} 30'$ E. 170.5 lks.   |
|        | + B R 5 H E S 121 on face of limestone ledge showing 2 x 5 x 3 ft. above ground, bears S. $71^{\circ} 33'$ W. 17.5 lks.  |



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TONTONATIONAL FOREST

ARIZONA

|        |   |
|--------|---|
| Chains | Thence S. 10° 24' E. 15.00  |
|        | Along east slope ridge and west side Verde Creek. Asc. thru brush. 28.00  |
| 4.00   | Leave East Verde Creek. Asc. along east slope ridge thru brush. 38.00   |
| 13.03  | To cor. No. 6. On top ridge, 60 ft. high, bears N. and S. Identical with cor. No. 57 of list, which is a limestone 18 x 6 x 4 ins. marked and witnessed as described in field notes of listing survey. Destroy same and set a limestone 24 x 10 x 6 ins. 14 ins. in ground, over stone marked +, chiseled 6-HES121 on side facing claim; raise mound of stone 2 ft. base, 1-1/2 ft. high, 3-1/2 ft. dist. within claim; whence, |
|        | A cedar 16 ins. dia., scribed 6 H E S 121 B T bears N. 16° 27' E. 18.5 lks.   |
|        | A cedar 6 ins. dia., scribed 6 H E S 121 B T bears S. 31° 24' E. 41 lks.  |
|        | Obs. sun for lat. Observed alt. of sun's upper limb 32° 32' resulting lat. is 34° 20-1/2' N.  |
|        | Thence S. 89° 52' W. Desc. thru scattered timber.   |
| 10.00  | Wash, 20 lks. wide, course NW. Open ground. Desc.   |
| 21.80  | East Verde Creek, 50 lks. wide, course SW. Over level bottom land.  |
| 27.00  | Cor. wire fence, bears N. 25 lks.   |
| 27.68  | W.C. cor. No. 7. A granite stone 24 x 8 x 6 ins. set 14 ins. in ground, over stone marked +, chiseled WC-7-HES121 on side facing claim; raise mound of stone 2 ft. base, 1-1/2 ft. high, 3-1/2 ft. dist. within claim; whence   |
|        | A sycamore 26 ins. dia., scribed W C 7 H E S 121 B T bears S. 27° 20' W. 65 lks.  |

Chains

A cottonwood 40 ins. dia., scribed W C 7 H E S 121

B T, bears N. 88° 32' W. 57 lks.

28.00 Enter wash of Weber and East Verde Creeks.

28.20 Weber Creek, 25 lks. wide, course SW.

28.80 Junction of Weber and East Verde Creeks, bears S. 25 lks.

30.13 To position for cor. No. 7.

Identical with cor. No. 6 of list, which I fail to find but whose position I determine as called for by field notes of listing survey, from witness tree which is as described therein.

This cor. falls in wash from East Verde Creek and Weber Creek, I therefore establish W.C. on each of the intersecting lines.

Thence N. 80° 35' W.

Over wash of East Verde.

0.70 Leave wash, Asc. bank 10 ft. high.

0.80 To W.C. cor. No. 7.

A cottonwood 20 ins. dia., scribed + on E. face for exact point and WC-7-HES121 on side facing claim; raise mound of stone 2 ft. base, 1-1/2 ft. high, 3-1/2 ft. dist. within claim; whence,

A cottonwood 20 ins. dia., scribed W C 7 H E S 121

B T bears N. 88° 52' W. 31 lks.

A cottonwood 26 ins. dia., scribed W C 7 H E S 121

B T bears N. 81° 49' E. 84.5 lks.

1.00 Enter wash of East Verde Creek.

4.00 East Verde Creek, 25 lks. wide, course NW.

7.50 Ascend bank, 25 ft. high, Leave wash creek ascending gradually thru brush and scattered timber.

10.01 To cor. No. 1 and place of beginning.

HOMESTEAD ENTRY SURVEY NO. 121

TONTON NATIONAL FOREST

ARIZONA

| Chains | AREA  | Chains |
|--------|---|--------|
|        | Total Area Homestead Entry Survey No. 121- - 103.99 acres   |        |
|        | Improvements  |        |
|        | The improvements on this claim consist of the following:  |        |
|        | A frame house, the NE. cor. of which bears from cor. No. 2<br>N. 24° 25' W. 9.30 chs. 20 x 25 ft. course long side  |        |
|        | N. 45° E. Value . . . . . \$ 250.00   |        |
|        | A frame barn, the SE. cor. of which bears from cor. No. 2<br>N. 5° W. 6 chs. 24 x 36 ft. course long side           |        |
|        | N. 35° E. Value . . . . . \$ 50.00  |        |
|        | An iron roofed shed, the SE. cor. of which bears from cor.<br>No. 2 North 6.40 chs. 16 x 16 ft. course side         |        |
|        | N. 35° E. and S. 35° W. Value . . . . . \$ 15.00  |        |
|        | A frame shed, the SE. cor. of which bears from cor. No. 2<br>N. 19° 30' W. 10 chs. 12 x 16 ft. course long side     |        |
|        | N. 60° W. Value . . . . . \$ 15.00  |        |
|        | A frame smoke house, the SE. cor. of which bears from cor.<br>No. 2 N. 31° 15' W. 9.30 chs. 12 x 14 ft. course long |        |
|        | side N. 45° E. Value . . . . . \$ 25.00   |        |
|        | A frame shed, the NW. cor. of which bears from cor. No.<br>4, S. 75° 35' E. 12.30 chs. 8 x 20 ft. course long       |        |
|        | side N. 45° E. Value . . . . . \$ 10.00   |        |
|        | An outhouse, the NW. cor. of which bears from cor. No.<br>4, S. 78° E. 12.50 chs. 4 x 4 ft. course long side        |        |
|        | N. 45° E. Value . . . . . \$ 10.00  |        |
|        | About 1/2 mile of dug irrigation ditch in rocky ground  |        |
|        | Value . . . . . \$ 500.00   |        |
|        | About 2 miles of wire fence   |        |
|        | Value . . . . . \$ 200.00   |        |
|        | Total estimated value of improvements . . . . . \$1075.00   |        |
|        | All of above improvements of claimant herein.   |        |

## TONTONATIONAL FOREST

## ARIZONA

| Chains | Description  |
|--------|--|
|        | <p>This claim lies in a small narrow valley formed by East Verde Creek and Weber Creek. The land adapted to agricultural purposes lies along the creek beds largely, while the land adjacent to the boundaries for the most part is rough and rocky. There is no timber of commercial value on the claim, although there is some small cedar, juniper and oak. Water is supplied by East Verde Creek and Weber Creek which furnish sufficient quantity to irrigate all the agricultural land. Water is also supplied from two springs at west end of tract. The claim is more valuable for agricultural purposes than for any other and is chiefly used for such. Claimant has approximately 19 acres under cultivation. No evidence of mineralization was observed on claim and none is known to exist thereon.</p> |
|        | <p>H. E. S. No. 122, Forest Hale, claimant; is located about 1/4 mile Southwesterly of this survey. No other claims known nearby. An abandoned smelter is situated about 1/2 mile Southwestly on the East Verde. Payson, Arizona, the nearest settlement and postoffice is located about 8 miles Southerly and is reached by a fair wagon road.</p>  |
|        | <p>Cor. No. 2, identical with cor. No. 4 of list, which I fail to find, and whose witness trees I am unable to identify, I reestablish by running on reported course as given in field notes of listing survey from cor. No. 3 and Cor. No. 5 thereof to the intersection at which point I set cor. No. 2 of this survey.</p>  |

## TENTON NATIONAL FOREST

## ARIZONA

Chains

Traverse

Dist.

| Sta. | Course        | Dist.  | N     | S     | E     | W     |
|------|---------------|--------|-------|-------|-------|-------|
| 1-2  | West          | 21.77  |       |       |       | 21.77 |
| 2-3  | S. 64° 0' W.  | 19.36  |       | 8.49  |       | 17.40 |
| 3-4  | N. 0° 36' W.  | 19.96  | 19.96 |       |       | 0.21  |
| 4-5  | S. 89° 56' E. | 79.32  |       | 0.09  | 79.32 |       |
| 5-6  | S. 0° 24' E.  | 13.03  |       | 13.03 | 0.09  |       |
| 6-7  | S. 89° 52' W. | 30.13  |       | 0.07  |       | 30.13 |
| 7-1  | N. 80° 35' W. | 10.01  | 1.64  |       |       | 9.88  |
|      |               | 193.58 | 21.60 | 21.68 | 79.41 | 79.39 |

21.60    79.39

Error in Lat. and Dep.

.08    .02

Error of closure 1:2346

Any discrepancy between these field notes and those of  
the listing survey is due to error in the latter.

Survey completed December 23, 1913 by setting corners.

W. H. Finigan  
Forest Service Surveyor

HOMESTEAD ENTRY SURVEY NO. 12345

FOREST LAND NATIONAL FOREST

ARIZONA

| Chains | Traverse |       |       | Chains            |
|--------|----------|-------|-------|-------------------|
| W      | E        | S     | N     |                   |
| 21.77  |          |       | 21.77 | 1-2 West          |
| 14.40  |          | 8.43  | 12.36 | 2-3 S. 84° 0' W.  |
| 0.21   |          |       | 12.36 | 3-4 N. 0° 36' W.  |
|        | 23.27    | 0.09  | 23.33 | 4-5 S. 89° 50' E. |
|        | 0.09     | 12.03 | 12.03 | 5-6 S. 0° 24' E.  |
| 30.13  |          | 0.07  | 30.13 | 6-7 S. 89° 52' W. |
| 2.88   |          |       | 10.01 | 7-1 N. 80° 35' W. |
| 23.23  | 21.41    | 21.68 | 21.68 | 123.58            |
|        | 23.33    | 21.69 |       |                   |
|        | 0.02     | 0.08  |       |                   |

Error in lat. and dep.  
Error of closure 1:2346

Any discrepancy between these field notes and those of the listing survey is due to error in the latter.  
Survey completed December 22, 1913 by setting corners.

W. H. Thompson  
Forest Service Surveyor

Direct obs. at Cor. No. 5. Dec. 19, 1913 at 9h. 40m. A.M., l.m.t.  
 / rt. Ref.Pt. to sun. Obs. alt. sun Pos. sun. Pos. telescope  
 $158^{\circ} 12\frac{1}{2}'$   $23^{\circ} 36'$  \* Direct  
 $2 \ 158^{\circ} 21\frac{1}{2}'$   $23^{\circ} 31'$  † Reversed.  
 $2 \ 316 \ 34$   $2 \ 47^{\circ} 07'$   
 $158^{\circ} 17'$   $23^{\circ} 33' 30''$   
 $2' 12''$   
 $23^{\circ} 31' 18''$

Lat.  $34^{\circ} 20\frac{1}{2}'$  N.  
 Decl. app. noon, Greenwich =  $23^{\circ} 25' 07.6''$   
 Dif. for 5h. 05' =  $17.34''$   
 Decl at 9h. 40m. A.M. =  $23^{\circ} 25' 24.94''$

sin  $23^{\circ} 25' 30''$  = 9.5993899 tan  $34^{\circ} 20' 30''$  = 9.8345605  
 cos.  $34^{\circ} 20' 30''$  = 9.9168161 "  $23^{\circ} 31' 20''$  = 9.6387624  
 $9.6825738$   
 $9.4733229$   
 cos.  $23^{\circ} 31' 20''$  = 9.9623245 = .29739  
 $9.7202493 = .52511$   $.52511 = 34^{\circ} 40'$   
 $.82250 = 34^{\circ} 40'$

Cor. No. 5 to sun = S.  $34^{\circ} 40'$  E.  
 / rt. to Ref. pt. =  $201^{\circ} 43'$   
 Cor. No. 5 to Ref. Pt. N.  $12^{\circ} 57'$  W.

Direct obs. at Cor. No. 7 Dec. 19, 1913 at 2:50 P.M., l. m. t.  
 Lat.  $34^{\circ} 20\frac{1}{2}'$  N.  
 / rt. Ref. Pt. to sun Obs. alt. sun Pos. sun Pos. telescope  
 $129^{\circ} 39'$   $19^{\circ} 34'$  † Direct  
 $129^{\circ} 35'$   $19^{\circ} 51'$  † Reversed  
 $2 \ 259^{\circ} 14'$   $2 \ 39^{\circ} 25'$   
 $129^{\circ} 37'$   $19^{\circ} 42' 30''$   
 $2' 39''$   
 $19^{\circ} 39' 51''$

Decl app. noon Greenwich =  $23^{\circ} 25' 07.6''$   
 Dif. for 10h. 20m. =  $35.86''$   
 Decl. at 2h. 50m. P.M. =  $23^{\circ} 25' 43.46''$

Sin  $23^{\circ} 25' 40''$  = 9.5994385  
 cos.  $34^{\circ} 20' 30''$  = 9.9168161  
 $9.6826224$   
 cos.  $19^{\circ} 39' 50''$  = 9.9739046  
 $9.7087178 = .51135$   
 tan.  $34^{\circ} 20' 30''$  = 9.8345605  
 "  $19^{\circ} 39' 50''$  = 9.5530828  
 $9.3876433 = .24414 + .51135 = .75549 = 40^{\circ} 56'$

Cor. 7 to sun = S.  $40^{\circ} 56'$  W.  
 / rt. to Ref. Pt. =  $230^{\circ} 23'$   
 Cor. No. 7 to Ref. Pt. = S  $88^{\circ} 41'$  E.

Direct obs. at Cor. No. 5. Dec. 29, 1913. 4m. A.M. 1.1.1.1.

Direct obs. at Cor. No. 5. Dec. 29, 1913. 4m. A.M. 1.1.1.1.  
Direct obs. at Cor. No. 5. Dec. 29, 1913. 4m. A.M. 1.1.1.1.  
Direct obs. at Cor. No. 5. Dec. 29, 1913. 4m. A.M. 1.1.1.1.

23° 31' 10"  
23° 31' 10"

Direct obs. at Cor. No. 5. Dec. 29, 1913. 4m. A.M. 1.1.1.1.  
Direct obs. at Cor. No. 5. Dec. 29, 1913. 4m. A.M. 1.1.1.1.

Direct obs. at Cor. No. 5. Dec. 29, 1913. 4m. A.M. 1.1.1.1.  
Direct obs. at Cor. No. 5. Dec. 29, 1913. 4m. A.M. 1.1.1.1.

Direct obs. at Cor. No. 5. Dec. 29, 1913. 4m. A.M. 1.1.1.1.  
Direct obs. at Cor. No. 5. Dec. 29, 1913. 4m. A.M. 1.1.1.1.

Direct obs. at Cor. No. 5. Dec. 29, 1913. 4m. A.M. 1.1.1.1.  
Direct obs. at Cor. No. 5. Dec. 29, 1913. 4m. A.M. 1.1.1.1.

19° 41' 30"  
19° 41' 30"

Direct obs. at Cor. No. 5. Dec. 29, 1913. 4m. A.M. 1.1.1.1.  
Direct obs. at Cor. No. 5. Dec. 29, 1913. 4m. A.M. 1.1.1.1.

Direct obs. at Cor. No. 5. Dec. 29, 1913. 4m. A.M. 1.1.1.1.  
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Direct obs. at Cor. No. 5. Dec. 29, 1913. 4m. A.M. 1.1.1.1.

Direct obs. at Cor. No. 5. Dec. 29, 1913. 4m. A.M. 1.1.1.1.  
Direct obs. at Cor. No. 5. Dec. 29, 1913. 4m. A.M. 1.1.1.1.



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. 121., STATE OF Arizona. Arthur L. Neal.

| CORNERS. | BEARING.      | DISTANCE. | LATITUDES.         |                    | DEPARTURES.        |        | DOUBLE M. D. | N. AREAS.      | S. AREAS. |
|----------|---------------|-----------|--------------------|--------------------|--------------------|--------|--------------|----------------|-----------|
|          |               |           | NORTH.             | SOUTH.             | EAST.              | WEST.  |              |                |           |
| 4-5      | S. 89° 56' E. | 79.32     |                    | 0 09 <sup>6</sup>  | 79 32 <sup>1</sup> | 79 31  |              | 4 76           |           |
| 5-6      | S. 0° 24' E.  | 13.03     |                    | 13 03 <sup>2</sup> | 0 09               | 158 71 |              | 2066 40        |           |
| 6-7      | S. 89° 52' W. | 30 13     |                    | 0 07 <sup>4</sup>  | 30 13              | 128 66 |              | 7 72           |           |
| 7-1      | N. 80° 35' W. | 10.01     | 1 64               |                    | 9 88               | 88 64  | 145 37       |                |           |
| 1-2      | West          | 21.77     | 0 01               |                    | 21 77              | 56 99  | 0 57         |                |           |
| 2-3      | S. 64° 0' W.  | 19.36     |                    | 8 49               | 17 40              | 17 82  |              | 151 11         |           |
| 3-4      | N. 0° 36' W.  | 19.96     | 19 96 <sup>7</sup> |                    | 0 21               | 0 21   | 4 19         |                |           |
|          |               | 193 58    | 21 60              | 21 68              | 79 41              | 79 39  | 150 13       | 2229 99        |           |
|          |               |           | 21 62              | 21 62              | 79 40              | 79 40  |              | 150 13         |           |
|          |               |           |                    |                    |                    |        |              | 2)2079 86      |           |
|          |               |           |                    |                    |                    |        |              | 1039 93        |           |
|          |               |           |                    |                    |                    |        |              | = 103.99 ACRES |           |

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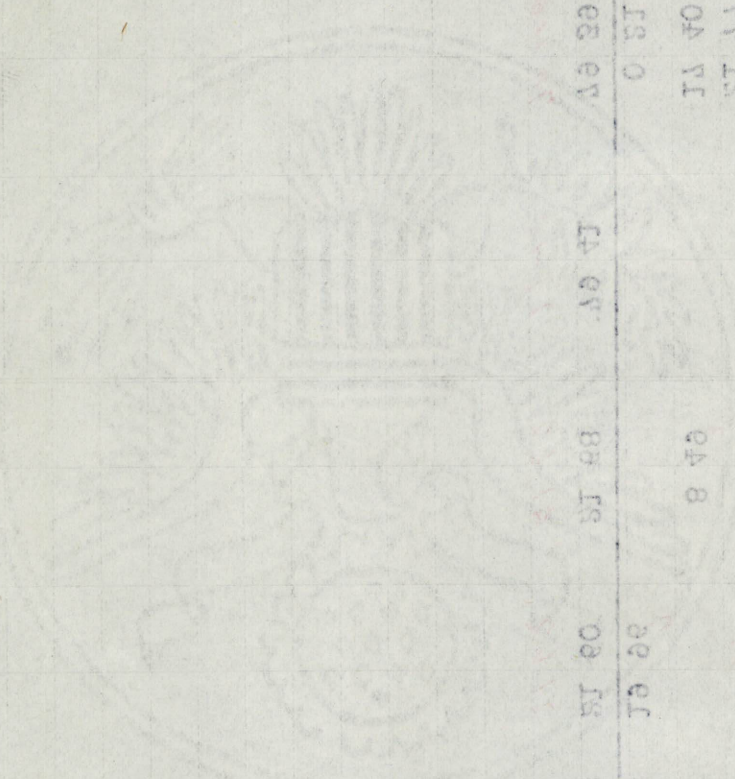
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LABLING AND OBTAINATIONS OF HOMESIDE D. ENLVA. SUREVAY MO. TSL. CO. STATE OF ALABAMA. WALTER T. HEST.

Vertical text on the right side of the page, possibly a list or index.

APPROVAL

Office of the United States Surveyor General,  
Phoenix, Arizona,  
December 1, 1914 .

The foregoing field notes of Homestead Entry Survey No.

121

Arthur L. Neal

executed by W. H. Finigan, Forest Service Surveyor,  
under his special instructions, dated November 8, 1913,  
having been critically examined, and the necessary correc-  
tions and explanations made, the said field notes, and the  
surveys they describe, are hereby approved.

*Frank S. Ingalls*  
U. S. Surveyor General.

I certify that the foregoing transcript of the field  
notes of the above-described survey in Arizona,  
has been correctly copied from the original notes on file in  
this office.

Frank S. Ingalls,  
U. S. Surveyor General.