

U. S. DEPARTMENT OF AGRICULTURE
FOREST SERVICE

MAR. 25 1915

MAR. 25 1915

FIELD NOTES

OF

HOMESTEAD ENTRY SURVEY NO. 116.

SITUATED IN THE

CROOK NATIONAL FOREST

ADMINISTRATIVE DISTRICT NO. 3.

in

Section 9, ---surveyed, Township 1 N., Range 15 E.

of the

Gila and Salt River Base and Meridian.

ARIZONA

Survey executed by Walter G. Turley, Surveyor-Forest Service.

Under special instructions dated October 30, 1913.

Survey commenced February 2, 1914.

Survey completed February 2, 1914.

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

Applicant for listing Wesley Goswick,

Residence Globe, Arizona.

Application No. 17, dated April 3, 1908.

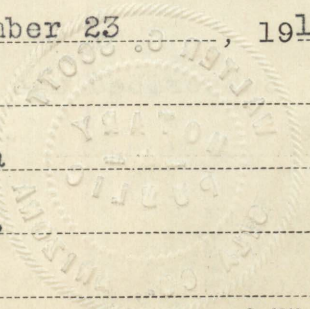
List No. 3-633, dated September 23, 1910.

Applicant for survey Willis Miller,

Residence Globe, Arizona.

H. E. No. 018504, dated July 3, 1912.

Land district Phoenix, Arizona.



OATH OF ASSISTANTS

We hereby certify that we assisted Walter G. Turley,
Surveyor-Forest Service in surveying all those
parts or portions of Homestead Entry Survey No. 116, in
-- surveyed Section 9, Township 1 N., Range 15 E.,
-- surveyed Section -- --, Township -- --, Range -- --,

of the G. & 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

Note: It would have been
very expensive and incon-
venient to appear before an
officer to administer the
oaths to assistants; hence,
they were taken by the Sur-
veyor.

Raymond F. Habours, Chainman
P. J. Johnson, Chainman.

Subscribed and sworn to before me this 2nd day of
February, 1914.

Walter G. Turley
Surveyor-Forest Service.

OATH OF SURVEYOR

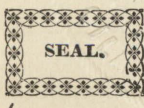
I, Walter G. Turley, Surveyor-Forest Service, do solemnly swear
that, in strict conformity with the special instructions of
the United States Surveyor General for Arizona, dated
October 30, 1913, and the laws of the United States, I have
well, faithfully, and truly, in my own proper person, sur-
veyed a tract of land ~~upon the application of~~ embraced in
List No. 3-633, dated Sept. 23, 1910, for
Patent, under the Act of June 11, 1906,
the same to be known as Homestead Entry Survey No. 116,
situated within the CROOK National Forest, in
-- surveyed Section 9, Township 1 N., Range 15 E., and
-- surveyed Section -- --, Township -- --, Range -- --,

of the G. & 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.

Walter G. Turley
Surveyor-Forest Service.

Subscribed and sworn to before me this 21st day of
February, 1914.

Walter G. Scott
Notary Public



My Commission expires July 1, 1917

CROOK NATIONAL FOREST

STATE OF ARIZONA.

Chains Applicant for listing Wesley Goswick; Application No. 17, dated April 3, 1908; List No. 3-633, dated September 23, 1910; H. E. No. 018504 made at Phoenix, Arizona by Willis Miller on July 3, 1912.

Surveyed under special instructions from the Surveyor General for Arizona, dated October 30, 1913 and designated as Homestead Entry Survey No. 116.

Situated in Sec. 9, T. 1 N., R. 15 E., G. & S. R. B. and Meridian within the Crook National Forest.

Surveyed under the Acts of June 11, 1906 and March 4, 1913.

Survey commenced February 2, 1914 and executed with a W. and L. E. Gurley light mountain transit No. 12953, with vertical circle and Burt solar attachment, the horizontal limb having two double verniers placed opposite and reading to single minutes of arc, which is also the least graduation on the verniers of the latitude and declination arcs.

The instrument was tested and all necessary adjustments made to the levels, line of collimation, solar attachment and stadia interval. The stadia is adjusted to read 1:132.

All measurements were made on the slope and reduced to the horizontal with a 400 link steel tape and a Philadelphia stadia rod graduated to feet and hundredths with target verniers reading to thousandths.

February 2, 1914.

I observe the altitude of the sun for azimuth at cor.

H-4 of the List survey, which is a sandstone 14 x 10 x 10 ins. above ground marked and witnessed as described

Chains by the Forest Service. The reading on the reference object, was set at zero, and my watch is set for local mean time. Latitude of station $33^{\circ} 26' 48''$ N.; Longitude $110^{\circ} 47' 42''$ W., obtained from the Special Instructions of the Surveyor General. The sun was observed in the lower left and upper right quadrants of the field in the first observation and in the upper left and lower right, quadrants of the field in the second observation.

Horizontal Angle	Vertical Angle	ch.	m.	s.
$38^{\circ} 18'$	$30^{\circ} 11'$	9	55	30
$38^{\circ} 49'$	$29^{\circ} 38'$	9	56	35
Second observation:				
$53^{\circ} 45'$	$18^{\circ} 57'$	3	43	35
$53^{\circ} 20'$	$19^{\circ} 11'$	3	44	37

Bearing of object by first observation S. $0^{\circ} 02' 10''$ E. Bearing of object by second observation S. $0^{\circ} 03' 12''$ E. The mean of these is S. $0^{\circ} 02' 41''$ E. and to the corresponding meridian all the courses of the survey stated in these field notes are referred.

February 2, 1914.

At 10h. 05m. a.m., l.m.t., I set off $16^{\circ} 53'$ S. on the decl. arc and $33^{\circ} 27'$ on the lat. arc and determine a meridian with the solar at cor. H-4 of the List survey and my line of sight falls upon tack in a stake set 4.00 chs. S. of my station, which defines a meridian as determined by observing the sun in altitude for azimuth as heretofore described. Therefore I conclude that my transit is in satisfactory adjustment.

CROOK NATIONAL FOREST

STATE OF ARIZONA.

Chains Preliminary to the survey of this claim, I retrace the Lode Survey lines as follows:

February 2, 1914.

At 10h. 10m. a.m., l.m.t., I set off $16^{\circ} 53' S.$ on the decl. arc and $33^{\circ} 27'$ on the lat. arc and determine a meridian with the solar at cor. No. 1, Orient Lode Survey No. 2672, which is a redwood post 4 x 4 x 36 ins. above ground and marked and witnessed as described by the Surveyor General.

Thence I run $S. 55^{\circ} 03' W.$ on a random line.

9.95 Cor. H-2 of the List survey, which is a sandstone 14 x 4 x 8 ins. above ground, marked and witnessed as described by the Forest Service, bears $N. 34^{\circ} 57' W.$

10.00 Cor. No. 4 of the Orient Lode Survey No. 2672, which is a pine post 4 x 4 x 30 ins. above ground, marked and witnessed as described by the Surveyor General.

I also retrace the lines 4-1 and 1-2 of the Astonishment Lode survey No. 2681, as follows: Beginning at cor. No. 4 Survey No. 2681, Astonishment Lode, which is a pine post 4 x 4 x 30 ins. above ground, marked and witnessed as described by the Surveyor General.

Thence I run:

$N. 30^{\circ} 12' E.$ on a random line.

3.15 Cor. H-7 of the List survey, which is a granite stone 10 x 8 x 8 ins. above ground, marked and witnessed as described by the Forest Service.

4.60 West end center, a pine post 4 x 4 x 30 ins. above

CROOK NATIONAL FOREST

STATE OF ARIZONA.

Chains	<p>ground, marked and witnessed as described by the Surveyor General.</p> <p>9.20 Cor. No. 1 of the Astonishment Lode survey No. 2681, which is a pine post 4.x.4.x 30 ins. above ground, marked and witnessed as described by the Surveyor General, also cor. H-1 of the List survey, which is a sandstone 8 x 8 x 8 ins. above ground, marked and witnessed as described by the Forest Service.</p>
3.67	<p>Thence I run:</p> <p>S. 69° 56' E. on a random line.</p> <p>Cor. No. 4, Orient Lode Survey No. 2672, heretofore described.</p> <p>22.72 Cor. No. 2 of the Astonishment Lode Survey No. 2681, which is a redwood post 4 x 4 x 48 ins. above ground, marked and witnessed as described by the Surveyor General.</p>
9.17	<p>Thence I run:</p> <p>N. 36° 10' E. on a random line from cor. H-4 of the List survey, heretofore described, for a tie.</p> <p>Cor. of Secs. 3, 4, 9 and 10, T. 1 N., R. 15 E., which is a granite stone 10 x 8 x 5 ins. above ground marked, and witnessed as described by the Surveyor General.</p>
9.17	<p>Thence I run:</p> <p>S. 36° 10' W. on a true line.</p> <p>To cor. No. 1. Identical with cor. H-4 of the List survey, heretofore described, I destroy all trace of this List cor. and at this point I set a quartzite stone 26 x 14 x 9</p>

TAMBO CROOK NATIONAL FOREST

STATE OF ARIZONA.

Chairs

ins. 16 ins. in the ground over a small stone, marked with a cross (+), for cor. No. 1 of this survey marked 1-HES116 on the S. face and raise a mound of stone 2 ft. base, 1-1/2 ft. high S. of cor., from which:

A willow 5 ins. dia. bears S. 36° 10' W. 28 lks. dist., marked 1 H E S 116 B T.

The first rail on A. E. R. R. is 1.53 chs. dist. N. 7° 30' W. of the cor.

No other bearings available. Pits impracticable.

At 10h. 00m., a.m., l.m.t., I observe the magnetic declination at cor. No. 1 of this survey to be 14° 08' E., which reduced by Table G., Manual 1894, Diurnal Variation in Magnetic Declination gives a mean magnetic declination of 14° 06' E.

Thence I run:

S. 53° 44' E. on a true line. Over bottom in undergrowth.

6.07 To cor. No. 2.

Identical with cor. H-3 of the List survey, which is a sandstone 10 x 10 x 8 ins. above ground, marked and witnessed as described by the Forest Service. I destroy all trace of this List cor. and at this point I set a limestone 24 x 10 x 10 ins., 14 ins. in the ground over a small stone marked with a cross (+) for cor. No. 2 of this survey, marked 2-HES116 on the W. face and raise a mound of stone 2 ft. base, 1-1/2 ft. high W. of cor., from which:

A mesquite 6 ins. in dia. bears S. 39° 40' W., 127 lks. dist., marked 2 H E S 116 B T.

Chains A mesquite 8 ins. in dia. bears N. 81° 45' W.,
132 lks. dist., marked 2 H E S 116 B T.

Thence S. 27° 32' W.
Over bottom.

1.10 Road, bears E. and W.
1.37 Ranch road, bears NE. and SW.
3.00 Leave bottom, bears NE. and SW. and ascend NW. slope
10 ft. to cor.

4.76 To cor. No. 3.
Identical with cor. No. 4 Orient Lode survey No.

2672, which is a pine post 4 x 4 x 30 ins. above
ground scribed 4-2672-0 on the E. face, set in a
mound of stone 2 ft. base, 1-1/2 ft. high. I mark
3-HES116 on the NW. face of this post for cor. No.
3 of this survey, from which:
+ B R 4-2672-0 on an imbedded lime boulder
24 x 18 x 12 ins. above ground bears N. 1°
09' W., 52 lks. dist.

Cor. No. 2 of the list survey, which is a sand-
stone 14 x 4 x 8 ins. above ground, marked
and witnessed as described by the Forest Ser-
vice bears N. 43° 30' E. 5 lks. dist.

I establish a witness corner identical with the list
corner as follows: I destroy all trace of the list
cor. and at this point I set a limestone 36 x 10 x 9
ins., 26 ins. in the ground over a small stone marked
with a cross (+) for a witness cor. to cor. No. 3
of this survey, marked WC-3-HES116 on the NW. face
and re-establish the mound of stone 2 ft. base, 1-1/2
ft. high around cor. No. 4 Orient Lode survey No.
2672, which is also cor. No. 3 of this survey, and

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Chains SW. of the W. C., from which:
 A mesquite 5 ins. dia., bears N. 17° 30' E.,
 127 lks. dist., marked W C 3 H E S 116 B T.
 SE. cor. of shaft, 4 x 6 x 22 ft. deep, the
 long side of which bears N. 40° E. and S. 40°
 W., bears N. 51° 00' W., 4 lks. dist.
 Pits impracticable.
 It was impracticable to place the mound in any other
 position.

Thence N. 69° 56' W.

Along line 2-1 Astonishment Lode survey, No. 2681.

Descend NW. slope 10 ft. to bottom.

0.50 Fence cor., bears N. 3 lks. dist., from which the fence
 bears N. 70° 39' W., and N. 20° E. Enter bottom,
 bears NE. and SW.

3.45 Fence, bears North and South.

3.66 Fence cor., from which the fence bears S. 70° 39' E.
 and S. 22° W.

3.67 To cor. No. 4.

Identical with cor. No. 1, Astonishment Lode survey
 No. 2681, which is a pine post 4 x 4 x 30 ins. above
 ground scribed 1-2681-A on SE. face, set in a mound
 of stone 2 ft. base, 1-1/2 ft. high. I mark 4-HES116
 on the NW. face of this post for cor. No. 4 of this
 survey.

Cor. No. 1 of the list survey, which is a sand-
 stone 8 x 8 x 8 ins. above ground, marked and
 witnessed as described by the Forest Service
 bears N. 45° W., 1 lk. dist.

I establish a witness cor. identical with the list

cor. as follows: I destroy all trace of this list

:ABINW

Chains cor. and at this point I set a quartz stone 36 x 10 x 9 ins., 20 ins. in the ground, over a small stone marked with a cross (+) for a witness cor. to cor. No. 4 of this survey, marked WC-4-HES116 on the NW. face; and raise a mound of stone 2 ft. base, 1-1/2 ft. high, SE. of cor., and around cor. No. 1, Astonishment Lode survey No. 2681, which is also cor. No. 4 of this survey. Pits impracticable and no bearings available. It was impracticable to place the mound of stone in any other direction.

Thence I run:

- S. 30° 12' W. along line 1-4 of Astonishment Lode survey No. 2681. Ascend NW. slope 10 ft.
- 2.20 Enter frame dwelling 12 x 16 ft., bears N. 30° W. 4 ft. and S. 30° E. 8 ft.
- 2.51 Leave house, bears N. 30° W. 12 ft. and N. 60° E. 16 ft.
- 2.94 Fence, bears NE. and SW. Leave bottom, bears NE. and SW. Ascend 10 ft. to cor.
- 4.60 West end center of the Astonishment Lode survey No. 2681 location a pine post 4 x 4 x 30 ins. above ground, marked and witnessed as heretofore described.
- 5.00 Leave bottom, bears NW. and SE. Ascend NE. slope 10 ft. to cor.
- 6.05 To cor. No. 5.
- Identical with cor. H-7 of the list survey, heretofore described. I destroy all trace of this list cor. and at this point I set a quartz stone 24 x 15 x 7 ins., 14 ins. in the ground over a small stone marked with a cross (+) for cor. No. 5 of this survey, marked 5-HES116 on the NW. face, and raise a mound of stone 2 ft. base, 1-1/2 ft. high, NW. of cor., from which:

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Chains

A mesquite 4 ins. dia. bears N. 6° 30' W. 112
lks. dist., marked 5 H E S 116 B T.

The improvements are also witnesses to this cor.,
the bearings of which are heretofore given.
Pits impracticable.

Thence I run:

N. 80° 34' W. on a true line. Descend NW. slope 10
ft. to bottom.

1.50 Enter bottom, bears NE. and SW. Continue over bottom.

8.00 Leave bottom, bears NW. and SE. and ascend NE. slope
5 ft. to cor.

10.19 To cor. No. 6.

Identical with cor. H-6 of the list survey, which is
a granite stone 10 x 4 x 8 ins. above ground, marked
and witnessed as described by the Forest Service.

I destroy all trace of this list cor. and at this
point I set a limestone 24 x 9 x 5 ins. 14 ins. in
the ground over a small stone marked with a cross
(+) for cor. No. 6 of this survey, marked 6-HES116
on the NE. face, and raise a mound of stone 2 ft.

base, 1-1/2 ft. high, NE. of cor., from which:

A catsclaw 5 ins. dia. bears N. 80° 30' E.

28 lks. dist., marked 6 H E S 116 B T.

No other bearings available. Pits impracticable.

Thence I run:

N. 0° 18' E. on a true line. Descend NE. slope 5°
ft. to bottom.

0.72 Fence, bears E. and W.

2.00 Enter bottom and cultivated land, bears E. and W.

7.76 Fence, bears E. and W.

Chains 7.76 Set a quartzite stone 30 x 12 x 10 ins., 20 ins. in the ground over a small stone marked with a cross (+) for a witness cor. to cor. No. 7 of this survey, marked WC-7-HES116 on the SE. face, and raise a mound of stone 2 ft. base, 1-1/2 ft. high, SE. 2 ft.

dist. from cor., from which:

A cross (+) on a quartzite boulder protruding 18 x 15 x 12 ins. from a conglomerate ledge and marked W C 7 H E S 116 B R, bears S. 59° 52' W. 115 lks. dist.

Pits impracticable. No other bearings available.

8.26 To cor. No. 7.

Identical with cor. H-5 of the list survey, which was a granite stone 10 x 2 x 8 ins. above ground, marked and witnessed as described by the Forest Service. The cor. falls in a wagon road and stone has been destroyed, but I locate its position from the witnesses. I destroy all trace of this list cor. and at this point I set a small stone marked with a cross (+) 24 ins. in the ground for cor. No. 7 of this survey, from which:

1st. rail of Arizona Eastern Railroad track bears N. 4° W. 157 lks. dist.

Thence I run:

N. 82° 21' E. on a true line. Over bottom in road.

0.60 Leave road, bears E. and W., and enter undergrowth.

0.75 Set a quartzite stone 24 x 12 x 7 ins. 14 ins. in the ground over a small stone marked with a cross (+) for a witness cor. to cor. No. 7 of this survey, marked WC-7-HES116 on the SE. face, and raise a mound of

CROOK NATIONAL FOREST

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Chains stone 2 ft. base, 1-1/2 ft. high, N. 82° 21' E. 3 ft. dist. from cor., from which:

The cross (+) on the quartzite boulder protruding 18 x 15 x 12 ins. from a conglomerate ledge, and marked W C 7 H E S 116 B R, bears S. 57° 13' W. 314 lks. dist.

Pits impracticable. No other bearings available.

Note: It was impracticable to place the mound in any other direction.

2.80 First rail on Arizona Eastern Railroad, bears N. 8° W. 153 lks. dist.

8.05 Enter Pinal creek, bank 4 ft. high, course NW.

13.15 Leave Pinal creek, bank 2 ft. high, course SW.

13.90 Cor. No. 1 of this survey, the place of beginning.

February 2, 1914.

AREA.

Area ----- 15.32 acres.

IMPROVEMENTS.

The improvements made upon and for the benefit of this homestead and belonging to Willis Miller, the claimant herein, consist of the following:

A frame dwelling 12 x 16 ft., the long side of which bears N. 60° E. and S. 60° W. and the S. cor. of which bears N. 30° 12' E. 3.54 chs. dist. from cor. No. 5 of this survey.

Value ----- \$125.00

A frame dwelling 12 x 30 ft., the long side of which bears N. 45° E. and S. 45° W. and the SE. cor. of which bears N. 17° 50' E. 2.26 chs. dist. from cor. No. 5 of this survey.

Value ----- \$200.00

Chains .A well 4 x.4 x 70 ft. deep, the center of which bears
N. 14° W. 1.80 chs. dist., from cor. No. 5 of this
survey.

Value ----- \$250.00

.A frame chicken house, the long side of which bears
N. and S. and the SE. cor. of which bears N. 59° 30'
W., 1.66 chs. dist. from cor. No. 5 of this survey.

Value ----- \$ 50.00

A frame stable, the long side of which bears E. and W.
and the SE. cor. of which bears N. 74° 20' W. 2.40
chs. dist. from cor. No. 5 of this survey.

Value ----- \$ 65.00

GENERAL DESCRIPTION.

This claim is situated on Pinal creek at an elevation
of 3250 feet, and is chiefly valuable for intensive
farming. Globe Postoffice and Arizona Eastern
Railway station is five miles in a SE. direction.
The soil is a rich sandy loam; and I saw no indica-
tion of mineral upon this claim. The shaft which
is dug on this claim near cor. No. 3 appears to be
in a poor quality of blue limestone, and rock or
ledges do not appear at any other point hereon.
The Arizona Eastern Railway passes near the North
line of this claim.

Cor. No. 3 of this survey was made identical with
cor. No. 4 Orient Lode survey No. 2672 in order to
close a very narrow hiatus which existed upon the
ground between the list survey and the Astonishment
Lode survey No. 2681.

CROOK NATIONAL FOREST

STATE OF ARIZONA

Chains

CONFLICTS AND ADJOINING CLAIMS.

This Homestead Entry is joined on the SE. by the Astonishment Lode survey No. 2681, line 4-1, Astonishment Lode is coincident with line 4-5 of this survey. The Orient Lode survey No. 2672, is a short distance East, its Cor. 4 is identical with Cor. 3 of this homestead. The Arizona Eastern Railroad right-of-way extends along the North side of this homestead but does not touch it.

TRAVERSE.

Bearing	Dist.	N	S	E	W
S. 53° 44' E.	6.07		3.59	4.89	
S. 27° 32' W.	4.76		4.22		2.20
N. 69° 56' W.	3.67	1.26			3.45
S. 30° 12' W.	6.05		5.23		3.04
N. 80° 34' W.	10.19	1.67			10.05
N. 0° 18' E.	8.26	8.26		0.04	
N. 82° 21' E.	13.90	1.85		13.78	
	52.90	13.04	13.04	18.71	18.74
			<u>13.04</u>		<u>18.71</u>
Error in Lat. and Dep.			.00		.03
Closing error 1:1763.					

Walter G. Purley
Surveyor, Forest Service.

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HOMESTEAD ENTRY SURVEY NO. 1010

NATIONAL FOREST

STATE OF ARIZONA

Chains

Chains

CONJECTURES AND ADJOINING CLAIMS.
This Homestead Entry is joined on the SE. by the
Agreement Lode Survey No. 2881, Line 4-1, and on
the NE. by the Agreement Lode Survey No. 2882, Line 4-2 of this
survey. The Grant Lode Survey No. 2872, is a
short distance East, its Cor. A is identical with Cor. F
of this homestead. The Arizona Eastern Railroad
right-of-way extends along the North side of this
homestead but does not touch it.

TRAVELER'S

Bearing	Dist.	N	S	E	W
N. 33° 44' E.	6.07		3.32	4.89	
S. 27° 38' W.	4.78		4.32		2.30
N. 69° 55' W.	2.37	1.26			2.44
S. 30° 12' W.	4.02		3.22		3.00
N. 60° 34' W.	10.12	1.67			10.00
N. 0° 18' E.	6.22	6.22		0.04	
N. 62° 21' W.	12.20	2.32		12.78	
Σ 22.90		Σ 12.04	Σ 12.04	Σ 12.71	Σ 12.71
		Σ 12.04			Σ 12.71
Error in Lat. and Dep.			00.		00.
Closing error 1:1465.					

[Handwritten signature]
Surveyor, Forest Service.

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 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. 116, STATE OF Arizona, Willis Miller.

CORNERS.	BEARING.	DISTANCE.	LATITUDES.		DEPARTURES.		DOUBLE M. D.	N. AREAS.	S. AREAS.
			NORTH.	SOUTH.	EAST.	WEST.			
1-2	S. 53° 44' E.	6.07 ✓		3.59	4.89		32.57	116.93	
2-3	S. 27° 32' W.	4.76 ✓		4.22		2.20	35.26	148.80	
3-4	N. 69° 56' W.	3.67 ✓	1.26			3.45	29.61		37.31
4-5	S. 30° 12' W.	6.05 ✓		5.23		3.04 ⁴	23.12	120.92	
5-6	N. 80° 34' W.	10.19 ✓	1.67		0.04 ⁵	10.05	10.04	16.77	
6-7	N. 0° 18' E.	8.26 ✓	8.26		13.78 ⁹		0.05	0.41	
7-1	N. 82° 21' E.	13.90 ✓	1.85				13.89	25.70	
		52.90	13.04	13.04	18.71	18.74		80.19	386.65
			13.04	13.04	18.73	18.73			80.19
									2) 306.46
									15.32 = Area.

Closing error 1:1763.

T.P.

- 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 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. 116, STATE OF Arizona, WILLIS MILLER.

CORNERS.	BEARING.	DISTANCE.	LATITUDES.		DEPARTURES.		DOUBLE M. D.	N. AREAS.	S. AREAS.
			NORTH.	SOUTH.	EAST.	WEST.			
Long. 110° 47' 42"	Bearing Ang. 38° 18'		Ver. Ang. 30° 11'	Sun 0+	Time 9h. 55m. 30s.				
Lat. 33° 26' 48"	38° 49'		29° 38'	+	9h. 56m. 35s.				
Dec'l. 16° 54' 30"	38° 33' 30"		29° 54' 30"		9h. 56m. 03s.				
Alt. 29° 52' 58"									
Log. Cos. Lat. 9.921374 ✓					Log. Tan. Lat. 9.819904 ✓				
Log. Cos. Alt. 9.938042 ✓					Log. Tan. Alt. 9.759385 ✓				
Log. Sin. Dec'l. 9.463656 ✓					Anti. Log. 9.579289 ✓				
9.604240 ✓									
			Anti. Log. 402013 ✓						
			Cos. Q. = .781581 ✓	Q = - 38° 35' 40" ✓	Bearing of object S. 0° 02' 10" E.				
Long. 110° 47' 42"	53° 45'		18° 57'	+	3h. 43m. 35s.				
Lat. 33° 26' 48"	53° 20'		19° 11'	-	3h. 44m. 37s.				
Dec'l. 16° 50' 20"	53° 32' 30"		19° 04'		3h. 44m. 06s.				
Alt. 19° 01' 28"									
Log. Cos. Lat. 9.921374 ✓					Log. Tan. Lat. 9.819904 ✓				
Log. Cos. Alt. 9.975607 ✓					Log. Tan. Alt. 9.537573 ✓				
Log. Sin. Dec'l. 9.461921 ✓					Anti. Log. 9.357477 ✓				
9.564940 ✓			Anti. Log. 367231 ✓	Q = - 53° 29' 18" ✓	Bearing of object S. 0° 03' 12" E.				
			Cos. Q. = -.594991 ✓						

T. A.

APPROVAL


Office of the United States Surveyor General,

Phoenix, Arizona, March 18, 1916.

The foregoing field notes of Homestead Entry Survey No.

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executed by Walter G. Turley, Surveyor Forest Service
under his special instructions, dated October 30, 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.


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 P. Trott
U. S. Surveyor General.