FIELD NOTES

OF

HOMESTEAD ENTRY SURVEY NO. 246

SITUATED IN THE

SITGREAVES NATIONAL FOREST

ADMINISTRATIVE DISTRICT NO. 3

in

Section 3, unsurveyed, Township 11 N., Range 17 E.

Section 4, unsurveyed, Township 11 N., Range 17 E.

Section 23, unsurveyed, Township 12 N., Range 17 E.

Section 34, unsurveyed, Township 12 N., Range 17 E.

of the

Gila and Salt River Base and Meridian.

ARIZONA

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

Under special instructions dated August 6, 1914.

Survey commenced August 10, 1914.

Survey completed August 11, 1914.


Applicant for listing Raymond M. Jensen.

Residence Heber, Arizona.

Application No. 263, dated May 15, 1911.

List No. 2-1539, dated November 2, 1911.

Applicant for survey Raymond M. Jensen.

Residence Heber, Arizona.

H. E. No. 018477, dated July 1, 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. 246, in unsurveyed Section 3, Township 11 N., Range 17 E., unsurveyed Section 4, Township 11 N., Range 17 E., unsurveyed Section 23, Township 12 N., Range 17 E., unsurveyed Section 24, Township 12 N., Range 17 E., of the G. & S.R.R. & 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 survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for Arizona.

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

Subscribed and sworn to before me this 12th day of November, 1914.

Charles T. Holton, Chairman
Charles T. Holton, Chairman

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 August 6, 1914, and the laws of the United States, I have well, faithfully, and truly, in my own proper person, surveyed a tract of land described as embracing in List No. 3-1639 dated Nov. 2, 1911, for Patent, under the Act of June 11, 1906, the same to be known as Homestead Entry Survey No. 246, situated within the Sitgreaves National Forest, in unsurveyed Section 3, Township 11 N., Range 17 E., and unsurveyed Section 23, Township 12 N., Range 17 E., and unsurveyed Section 24, Township 12 N., Range 17 E., of the G. & S.R.R. & 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.

Subscribed and sworn to before me this 2nd day of February, 1915.

Walter G. Turley, Surveyor - Forest Service

My Commission expires April 30, 1915.
Chains

Applicant for listing, Raymond M. Jensen; Application No. 265, dated May 15, 1911; List No. 3-1539, dated November 2, 1911; Homestead Entry No. 018477, made in the Phoenix Land Office on July 1, 1912, by Raymond M. Jensen, whose post office address is Heber, Arizona. Surveyed under Acts of June 11, 1906 and June 30, 1914; and special instructions from the Surveyor General for Arizona, dated August 6, 1914, and designated as Homestead Entry Survey No. 246.

Situated in what will probably be, when surveyed, secs. 3, 4, 33 and 34; T. 11 and 12 N., R. 17 E., Gila and Salt River Base and Meridian, within the Sitgreaves National Forest, Arizona.

Survey commenced August 10, 1914, and executed with a W. and L. B. Survey Light mountain transit No. 12953 provided with a prism eye piece, stadia wires, vertical circle and Burt solar attachment. The horizontal limb of the transit has two double verniers placed opposite to each other and graduated to single minutes of arc, which is also the graduation upon the verniers of the latitude and declination arcs.

I test the adjustments of the transit and solar attachment, and make necessary corrections. The stadia wire interval is adjusted to read 1:132.

All distances are horizontal; and were reduced from measurements made directly on the slope with a standard

500 link steel tape graduated to links and tenths; and the slope angles determined with a clinometer, the vernier of which reads to degrees; and a Philadelphia stadia rod, graduated to feet and hundredths, provided.
Chains, with two targets, the verniers of which read to thousandths of a foot.

August 10, 1914.

I set up my transit over cor. H-7 of List 3-1539, which is a sandstone 8 x 8 x 4 ins. above ground, marked and witnessed as described by the Forest Service; and, with telescope direct, I observe Polaris in accordance with instructions at 10h. 40m. p.m., l.m.t., and mark the direction thus determined with a tack in a stake set firmly in the ground 5.00 chs. N. of my station.

Astron. l.m.t. obsn., August 9, 1914, 34h. 40.0m.

Astron. l.m.t. U.C. Pol., Aug. 9, 1914, 16h. 16.7m.

Hour angle Pol. at obsn., 18h. 23.5m.

Time argument, 25h. 56.1m.

Azimuth Pol. at obsn., 1° 23' 24" E.

With my transit set up over cor. H-7 of List 3-1539, heretofore described, and the telescope reversed in altitude and azimuth, at 11h. 06m. p.m., l.m.t., on the same date, I again observe Polaris in accordance with instructions, and mark the direction thus deter-
mined with a tack in a stake set firmly in the ground 5.00 chs. N. of my station.

Astron. l.m.t. obsn., August 9, 1914, 36h. 06.0m.

Astron. l.m.t. U.C. Pol., Aug. 9, 1914, 16h. 16.7m.

Hour angle Pol. at obsn., 18h. 48.3m.

Time argument, 25h. 56.1m.

Azimuth of Pol. at obsn., 1° 32' 00" E.

Lat. 34° 22' 52" N., Long. 110° 32' 04" W.

August 10, 1914.
August 11, 1914.

I turn off 1° 23' 1/2" the azimuth of Polaris, to the East from her direction at 10h. 40m., p.m., l.m.t.,
August 10, 1914, and mark the line thus determined with a tack in a stake set firmly in the ground 5.00 chs.
N. of my station.

I also turn off 1° 22', the azimuth of Polaris, to the West from her direction at 11h. 05m., p.m., l.m.t., on the same date, and mark the line thus determined with a tack in a stake set firmly in the ground 5.00 chs.
N. of my station. This line falls 0° 00' 58" of station arc to the W. of the line previously established. I then take the mean of these two lines with a tack in a stake set firmly in the ground 5.00 chs. N. of my station;

and, from the corresponding meridian, all the courses stated in these field notes were deflected and referred by continuous sustained angular.

34° 24' 13" N. Lat., and 110° 29' 45" W. Long., at cor. of Secs. 25, 60, 31 and 66, T. 12 N., R.
17 and 18 E., taken from values stated in the special instructions of the Surveyor General, which gives 34° 23' 52" N. Lat. and 110° 23' 04" W. Long., at cor. No. 1 of this survey. The sun was obscured at apparent noon on August 11, 1914, therefore a latitude observation was not possible.

On August 3, 1914, I compared my watch by telephone with the standard 105° meridian telegraphic clock and found it correct. I subtract 22m. 18" therefrom for l.m.t.
I observe the magnetic declination at cor. No. 1 of this survey to be 14° 50' E. at 8h. 00m. a.m., l.m.t., August 11, 1914, which gives a mean magnetic declination of 14° 46' E.

There is no corner of the Public Land Survey within two miles of the homestead and therefore this claim is tied to U. S. L. M. No. 180, H. E. S., which I established on August 4, 1914 and is located upon a prominent point near what will probably be when surveyed the northeast corner of Sec. 33, T. 13 N., R. 17 E., Gila and Salt River Base and Meridian, approximately 17.00 c's. north of the main E. and W. wagon road. A (+), chiseled at the point and U.S.L.M. No. 180CHES on the NW. face of an imbricated limestone 6 x 7 x 4 ft. above ground, with a mound of stone 6 ft. base, 4 ft. high S. of cor. from which:

A 7 in. pine scribed U. S. L. M. No. 180 H. E. S. + B T
bears N. 14° 00' E., 25 lks.

A 7 in. pine scribed U. S. L. M. No. 180 H. E. S. + B T
bears N. 25° 25' E., 17 lks.

An 18 in. pine scribed U. S. L. M. No. 180 H. E. S. + B T
bears N. 84° 50' W., 43 lks.

An 18 in. pine scribed U. S. L. M. No. 180 H. E. S. + B T
bears N. 60° 15' W., 71 lks.

S. 60° 55' W., 2.98 c's. to cor. No. 1, H. E. S., 180.
N. 65° 23' W., 44.45 c's. to cor. No. 1, H. E. S., 181.
S. 34° 00' E., 34.52 c's. to cor. No. 1, H. E. S., 246.
N. 34° 26' 25' N., Lat., and 110° 33' 19' W. Long.,
scaled from the Atlas sheet.

Note: This section of country is a high mesa covered with
timber therefore no prominent natural objects are visible from any point in this vicinity.

Thence S. 34° 00' E. 34.52

Identical with cor. H-7 of List 8-1559 herefore described, I destroy cor. H-7 and its witnesses; and, for cor. No. 1 of this survey, I chisel (+) on a stone 4 x 3 x 2 ins., and deposit it 16 ins. in the ground over which I set a sandstone 26 x 13 x 4 ins., 16 ins. in the ground, chiseled (+) at the point and 1-HES246 on the SE, face and dig pits 24 x 24 x 12 ins. crosswise on this and the succeeding course, 7 ft. dist. and raise a mound of earth 4 ft. base, 2 ft. high, 3-1/2 ft. SE. of cor. from which:

A 20 in. pine scribed 1 H E S 246 + B T
bears N. 22° 18' W., 191 lks.

A 22 in. pine scribed 1 H E S 246 + B T
bears S. 38° 52' W., 226 lks.

N. 34° 00' W. 34.52 to U.S. L.M. No. 180 H. E. S.

Thence N. 72° 56' E.

Along wire fence. Descend gentle SE. slope 10 ft. in open.

12.39 Wire fence bears S.

33.32 Left bank of arroyo 20 lks. wide, banks 1 ft. high, course NE.

39.90 To Cor. No. 2.

Identical with cor. H-8 of List 8-1559, which is a sandstone 8 x 6 x 4 ins. above ground marked and witnessed as described by the Forest Service. I destroy cor.
Chains
H-8 and its witnesses; and, for cor. No. 2 of this survey, I chisel (+) on a stone 4 x 4 x 2 ins. and deposit it 18 ins. in the ground, over which I set a sandstone 28 x 12 x 6 ins., 18 ins. in the ground chiseled (+) at the point and 2-HES246 on the S. face and raise a mound of stone 2 ft. base, 1-1/2 ft. high S. of cor. from which:
A 10 in. pine scribed 2 HES 246 + E T
bears E. 60° 31' W. 685 lks.
No other bearings available; Pits impracticable.

Thence S. 89° 00' E.
Along wire fence. Over bottom in open.
10.00 To Cor. No. 3.

Identical with cor. H-1 of List 3-1539 which is a sandstone 8 x 6 x 7 ins. above ground, marked and witnessed as described by the Forest Service. I destroy cor. H-1 and its witnesses; and, for cor. No. 3 of this survey, I chisel (+) on a stone 3 x 3 x 2 ins. and deposit it 18 ins. in the ground, over which I set a sandstone 28 x 12 x 5 ins., 18 ins. in the ground, chiseled (+) at the point and 3-HES246 on the SW. face, and raise a mound of stone 2 ft. base, 1-1/2 ft. high SW. of cor. from which:
A 12 in. pine scribed 3 HES 246 + BT
bears S. 44° 00' E., 360 lks.
No other bearings available. Pits impracticable.

Thence S. 0° 24' W.
Along wire fence. Over level land in open.
0.49 Right bank of arroyo, 10 lks. wide, banks 1 ft. high, course NE. Ascend gentle NW. slope 10 ft.
Chains

18.97 To Cor. No. 4.

Identical with cor. H-2 of List 3-1539 which is a juniper post 4 x 4 x 24 ins. above ground marked and witnessed as described by the Forest Service. I destroy cor. H-2 and its witnesses; and, for cor. No. 4 of this survey, I chisel (+) on a stone 4 x 4 x 2 ins., and deposit it 14 ins. in the ground, over which I set a sandstone 24 x 15 x 4 ins., 14 ins. in the ground, chiseled (+) at the point and 4-HES246 on the W. face; and dig pits 24 x 24 x 12 ins. crosswise on this and the succeeding course 7 ft. dist. and raise a mound of earth 4 ft. base, 2 ft. high, W. of cor. from which:

A 6 in. juniper scribed 4 H E S 246 + B T
bears N. 61° 15' E., 99 lks.
A 9 in. pine scribed 4 H E S 246 + B T
bears S. 37° 20' E., 131 lks.

Thence S. 25° 55' W.
Along wire fence. Descend gentle NW. slope 5 ft. in open.

12.82 Fence bears W.

14.95 Right bank of arroyo, 20 lks. wide, banks 1 ft. high, course NW.

22.37 To cor. No. 5.

Identical with cor. H-3 of List 3-1539, which is a juniper post 6 x 6 x 24 ins. above ground, marked and witnessed as described by the Forest Service. I destroy cor. H-3 and its witnesses; and, for cor. No. 5 of this survey, I chisel (+) on a stone 4 x 3 x 2 ins., and deposit it 14 ins. in the ground, over which I set a sandstone 24 x 14 x 7 ins., 14 ins. in the
Chains

ground, and dig pits 24 x 24 x 12 ins. crosswise on
this and the succeeding course, 7 ft. dist., and raise
a mound of earth 4 ft. base, 2 ft. high, NW. of cor.
from which:

A 15 in. pine scribed 5 H E S 246 + B T
bears S. 32° 15' E., 129 lks.

A 15 in. pine scribed 5 H E S 246 + B T
bears S. 87° 45' E., 104 lks.

Thence S. 72° 43' W.
Along wire fence. Ascend gentle NE. slope 5 ft. in
open.

19.72 To Cor. No. 6.

Identical with cor. H-4 of List 3-1539 which is a cedar
post 5 x 5 x 24 ins.; above ground, marked and wit-
nessed as described by the Forest Service. I destroy
cor. H-4 and its witnesses; and, for cor. No. 6
of this survey, I chisel (+) on a stone 3 x 3 x 2 ins.,
and deposit it 20 ins. in the ground, over which I
set a limestone 30 x 15 x 4 ins., 20 ins. in the ground,
chiseled (+) at the point and 6-HES 246 on the NE. face,
and raise a mound of stone 2 ft. base, 1-1/2 ft. high.
NE. of cor. from which:

A 9 in. pine scribed 6 H E S 246 + B T
bears S. 72° 30' E., 62 lks.

A 20 in. pine scribed 6 H E S 246 + B T
bears S. 36° 10' W., 121 lks.

Thence N. 0° 48' E.
Along wire fence. Descend NW. slope 5 ft. in scatter-
ing pine timber.
SITGREAVES NATIONAL FOREST

STATE OF ARIZONA

CHAINS

9.82 To Cor. No. 7.

Identical with cor. H-5 of List 3-1539, which is a juniper post 5 x 5 x 24 ins., above ground, marked and witnessed as described by the Forest Service. I destroy cor. H-5 and its witnesses; and, for cor. No. 7 of this survey, I chisel (+) on a stone 4 x 3 x 2 ins., and deposit it 17 ins. in the ground over which I set a sandstone 27 x 12 x 5 ins., 17 ins. in the ground, chiseled (+) at the point and 8-HESS246 on the NE. face and dig pits 24 x 24 x 12 ins. crosswise on this and the succeeding course 3-1/2 ft. dist. and raise a mound of earth 4 ft. base, 2 ft. high NE. of cor. from which:

A 28 in. pine scribed 7 H E S 246 + B T

bears N. 79° 15' E. 98 lbs.

A 22 in. pine scribed 7 H E S 246 + B T

bears S. 27° 50' W., 152 lbs.

From:

Thence N. 89° 12' W.

Along wire fence. Over bottom in scattering pine timber.

19.00 To Cor. No. 8.

Identical with cor. H-6 of List 3-1539 which is a juniper post 5 x 5 x 24 ins., above ground, marked and witnessed as described by the Forest Service. I destroy cor. H-6 and its witnesses; and, for cor. No. 8 of this survey, I chisel (+) on a stone 4 x 3 x 2 ins., and deposit it 17 ins. in the ground, over which I set a sandstone 27 x 18 x 8 ins., 17 ins. in the ground, chiseled (+) at the point and 8-HESS246 on the NE. face.
and dig pits 24 x 24 x 12 ins., crosswise on this and the succeeding course 8 ft. dist. and raise a mound of earth 4 ft. base, 2 ft. high NE. of cor. from which:

An 8 in. pine scribed S H E S 246 + B T
bears N. 35° 00' W., 87 lbs.
A 30 in. pine scribed S H E S 246 + B T
bears S. 7° 26' W., 74 lbs.

Thence N. 0° 35' E. Along fence.
Ascend S. slope in scattering pine timber 15 ft.
Cease ascending and descend gentle NE. slope 15 ft.

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

Total Area: 165.66 Acres

The improvements made upon this homestead consist of the following:

A log house 28 x 16 ft., the long side extending N. and S., and the NE. cor. of which bears S. 5° 05' W., 10.16 chs. dist. from cor. No. 3 of this survey.

Value: $300.00

A log barn 30 x 50 ft., the long side extending E. and W., and the NE. cor. of which bears S. 5° 00' W., 14.98 chs. dist. from cor. No. 3 of this survey.

Value: $200.00

S. 22° 25' W., 10.88 chs. distant from corner No.

3 to the E. end of a reservoir embankment which is 5 ft. high and extends north-
Chains

<table>
<thead>
<tr>
<th>Lot</th>
<th>Section 10</th>
<th>Value</th>
<th>$250.00</th>
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<td>58</td>
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</tr>
</tbody>
</table>

Approximately 2-1/2 miles of wire fence as shown on plat.

Approximately 40 acres of cultivated land.

**DESCRIPTION**

This claim is situated on the N. slope of the Mogollon mesa at an elevation of approximately 6600 ft. and occupies a tract of bottom land sloping gently to the northeast.

This section is timbered and a few trees are included in this survey. Sufficient water for domestic purposes and for stock is impounded in small reservoirs or hauled from Pierce Seep, a perennial spring that rises just North of cor. No. 3 of this survey.

The soil is a clay loam and produces the ordinary crops of the temperate zone without artificial irrigation; but is best adapted to the small grains, sorghums and corn - good crops of which have been raised.

This section is not reported to be mineralized; and no townsites, mining, coal or oil claims are known to have been located in this vicinity.

There are no conflicts or adjoining claims.

Heber postoffice is 6 miles by wagon road in a northwesterly direction. Holbrook railway station is 56 miles by wagon road in a northeasterly direction.

August 11, 1914.
<table>
<thead>
<tr>
<th>Cor.</th>
<th>Course</th>
<th>Dist. N.</th>
<th>S.</th>
<th>W.</th>
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<td>1-2</td>
<td>N. 72° 55' E.</td>
<td>39.90</td>
<td>11.72</td>
<td>38.14</td>
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<tr>
<td>2-3</td>
<td>S. 89° 00' E.</td>
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<tr>
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<td>S. 0° 24' W.</td>
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<td>-18.97</td>
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<td>S. 72° 43' W.</td>
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<td>6-7</td>
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<td>7-8</td>
<td>N. 89° 18' W.</td>
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<td>8-1</td>
<td>N. 0° 35' E.</td>
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Closing error 1.5684
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<th>Chains</th>
<th>Detailed Computations</th>
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<td>Latitude, Longitude and Time.</td>
<td>54° 24' 13&quot; N., Lat. at cor. to secs. 25, 30, 31 and 36, T. 12 N., R. 17 and 18 E., from special instructions of the Surveyor General.</td>
</tr>
</tbody>
</table>

\[
5980 \times 0.871 = 39.1, \text{ Southing.}
\]

8000

0° 00' 39"

24° 22' 58" N., Lat. at cor. No. 1 of this survey.

110° 29' 45" W., Long. at cor. to secs. 25, 30, 31 and 36, T. 12 N., R. 17 and 18 E., from special instructions of Surveyor General.

0° 03' 19"

110° 33' 04" W., Long. at cor. No. 1 of this survey.

110° 33' 04" Long. = 7h. 22m. 12s. of time.

Polaris at cor. No. 1, August 10, 1914, at 10h. 40m. p.m., l.m.t., telescope direct.

4h. 17.9m. a.m., Greenwich m.t., U.C. Pol., Aug. 10, 1914 01.2m. Sidereal correction

4h. 16.7m. a.m., l.m.t., U.C. Pol., August 10, 1914.

16h. 16.7m., astron. l.m.t. U.C. Pol., August 9, 1914.

36h. 40.0m., astron. l.m.t. obsn., August 9, 1914.

13h. 23.3m., hour angle Pol.

23h. 56.1m.,

8h. 32.8m., time argument.

88° 50' 47.2", decl. Pol.

3.5 \times 0.4 = 0.3, G. L. O. Ephemeris.

10.8

1° 25' 24" E., Azimuth Pol. at obsn.

Polaris at cor. No. 1, August 10, 1914, at 11h. 05m. p.m., l.m.t., telescope reversed in altitude and time.

4h. 17.9m. a.m., Greenwich m.t., U.C. Pol., Aug. 10, 1914 01.2m. Sidereal correction

4h. 16.7m. a.m., l.m.t., U.C. Pol., August 10, 1914.

16h. 16.7m., astron. l.m.t., U.C. Pol., August 9, 1914.

36h. 05.0m., astron. l.m.t. obsn., August 9, 1914.

18h. 48.3m., hour angle Pol.

22h. 56.1m.,

5h. 07.8m., time argument.

88° 50' 47.2", decl. Pol.

4.8 \times 0.9 = 0.3.

12.8

1° 22' 00" E., Azimuth Pol. at obsn.
<table>
<thead>
<tr>
<th>CORNERS</th>
<th>BEARING</th>
<th>DISTANCE</th>
<th>LATITUDES</th>
<th>DEPARTURES</th>
<th>DOUBLE M. D.</th>
<th>N. AREAS</th>
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<td>EAST</td>
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<tr>
<td>1-2</td>
<td>N. 72° 55' E.</td>
<td>39.90</td>
<td>11.72</td>
<td></td>
<td>38.14</td>
<td>38.65</td>
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<tr>
<td>2-3</td>
<td>S. 69° 00' E.</td>
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<td>23.37</td>
<td>20.84</td>
<td>10.59</td>
<td>86.96</td>
<td>179.05</td>
<td>55.82</td>
</tr>
<tr>
<td>5-6</td>
<td>S. 72° 43' W.</td>
<td>19.72</td>
<td>5.86</td>
<td>18.83</td>
<td>56.56</td>
<td>330.82</td>
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</tr>
<tr>
<td>6-7</td>
<td>N. 0° 48' E.</td>
<td>9.83</td>
<td>9.83</td>
<td>0.14</td>
<td>37.86</td>
<td>372.16</td>
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<tr>
<td>7-8</td>
<td>N. 69° 12' W.</td>
<td>19.00</td>
<td>0.27</td>
<td>19.00</td>
<td>19.00</td>
<td>5.13</td>
<td></td>
</tr>
<tr>
<td>8-1</td>
<td>N. 0° 25' E.</td>
<td>23.98</td>
<td>23.98</td>
<td>0.24</td>
<td>0.24</td>
<td>6.00</td>
<td></td>
</tr>
</tbody>
</table>

|         |         |          | 164.77    |            |             |          |          |
|         |         |          | 45.84     | 48.55      | 48.54       | 536.65   | 3969.96  |
| Closing error 1:3684 |         |          | 45.8  | 45.8  | 48.5  | 48.5  | 536.6  | 3969.9  |

Area 156.67
APPROVAL

Office of the United States Surveyor General,

Phoenix, Arizona, June 12, 1916

The foregoing field notes of Homestead Entry Survey No. 246

executed by Walter G. Turley, Surveyor-Forest Service [Forest Service Title] under his special instructions, dated August 6, 1914, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

[Signature]
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.

[Signature]
Frank P. Trott
U. S. Surveyor General.