

57

U. S. DEPARTMENT OF AGRICULTURE
FOREST SERVICE

NOV 1 1915

DEC 21 1916

FEB 6 1918

FIELD NOTES

OF

HOMESTEAD ENTRY SURVEY NO. 294

SITUATED IN THE **CORONADO** NATIONAL FOREST

ADMINISTRATIVE DISTRICT NO. 3

In Section 3 , --surveyed, Township 24 S., Range 18 E.
In Section 4 , --surveyed, Township 24 S., Range 18 E.
In Section 33 , unsurveyed, Township 23 S., Range 18 E.
In Section 34 , unsurveyed, Township 23 S., Range 18 E.

of the

Gila and Salt River Base and Meridian.

State of

ARIZONA

Applicant for listing **J. I. Jones,**

Residence **Parker Canyon, Arizona.**

Application No. 82 , dated **January 12** , 1908

Application No. 240 , dated **October 30** , 1912

List No. 1269 , dated **April 1** , 1908

List No. 3-2845 , dated **September 25** , 1913

Applicant for survey **J. I. Jones,**

Residence **Parker Canyon, Arizona**

H. E. No. **01025** , dated **September 24** , 1908

Land District **Phoenix, Arizona.**

Survey executed by **Charles D. Hodson, Surveyor-Draftsman**
[Forest Service Title.]

Under special instructions dated **October 17** , 1914

Survey commenced **January 26** , 1915

Survey completed **January 27** , 1915

Under Acts of **June 11, 1906 and June 30, 1914.**

52

OATH OF ASSISTANTS

We hereby certify that we assisted **Charles D. Hodson,**
Surveyor - Draftsman in surveying all those
[Forest Service Title.]

parts or portions of Homestead Entry Survey No. **294**, 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 estab-
lished, according to the instructions furnished 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 oaths
to Assistants; hence, they
were taken by the Surveyor.

W. L. Baecht, Chairman
W. J. Roberts,
Chairman

Subscribed and sworn to before me this *twentieth* day of
February, 19 *15*.

Charles D. Hodson

Surveyor - Draftsman

OATH OF SURVEYOR

I, **Charles D. Hodson,** **Surveyor - Draftsman**
[Forest Service Title.]

do solemnly swear that, in strict conformity with the special instruc-
tions of the United States Surveyor General for **Arizona**, dated
October 17, 19 **14**, and the laws of the United States, I have
well, faithfully, and truly, in my own proper person, surveyed a tract
of land embraced in List Nos. 1269 and 3-2845, dated April 1, 1908 and
September 25, 1913, and a tract of land upon the application of **J. I.**
Jones,

Application, No. **240**, dated **October 30**, 1912, for
Patent, under the Act of **June 11**, 1906,
the same to be known as Homestead Entry Survey No. **294**
situated within the **CORONADO** National Forest, in

--surveyed Section **3**, Township **24 S.**, Range **18 E.**, and
--surveyed Section **4**, Township **24 S.**, Range **18 E.**, and
unsurveyed Section 33, Township **23 S.**, Range **18 E.**, and
unsurveyed Section 34, Township **23 S.**, Range **18 E.**

of the **G. and S. R. B.** 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.

Charles D. Hodson

Surveyor - Draftsman
[Forest Service Title.]

Subscribed and sworn to before me this *31st* day of
March, 19 *15*.

Maudie L. Bowen

Notary Public



CORONADO NATIONAL FOREST

STATE OF ARIZONA

Chains Applicant for listing, J. I. Jones; Application Nos. 82 and 240, dated January 12, 1908 and October 30, 1912; List Nos. 1269 and 3-2845, dated April 1, 1908 and September 25, 1913; H. E. No. 01025, made in the Phoenix Land Office on September 24, 1908 covering List 1269.

Also certain contiguous tracts of unlisted land were included in this survey; the land is agricultural in

character and was desired by the entryman.

Surveyed under special instructions from the Surveyor General for Arizona, dated October 17, 1914 and designated as Homestead Entry Survey No. 294.

Located in Secs. 3 and 4, T. 24 S., R. 18 E., (surveyed) and in what will probably be, when surveyed, secs. 33 and 34, T. 23 S., R. 18 E., Gila and Salt River Base and Meridian, within the Coronado National Forest, Arizona.

Surveyed under Acts of June 11, 1906 and June 30, 1914.

Survey commenced January 26, 1915 and executed with a Buff and Buff "Forest Service" transit, No. 9700-6, with vertical circle. The horizontal limb has two double verniers placed opposite to each other reading to single minutes of arc, which is also the least count of the verniers on the vertical circle.

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

All distances are horizontal and were reduced from measurements made on the slope with a 500 link steel tape.

The slope angles were determined with a clinometer.

January 26, 1915. At the cor. to secs. 3 and 4, T. 24 S., and secs. 33 and 34, unsurveyed T. 23 S., R. 18 E., hereinafter described, I observe the altitude of the sun for azimuth.

Chains The reading on the reference object is set at zero and the sun is observed in the lower left and upper right quadrants of the field. My watch is set for local mean time. Lat. $31^{\circ} 23' N.$, Long. $110^{\circ} 30' 48'' W.$, obtained from the special instructions from the Surveyor General. and later verified,

(1)

Telescope	l.m.t.	Horizontal Angle	Vertical Angle
Direct	2h. 32m. 46s.	$51^{\circ} 00' 00''$	$29^{\circ} 49'$
Reverse	2h. 34m. 22s.	$51^{\circ} 15' 00''$	$29^{\circ} 03'$
Mean	2h. 33m. 34s.	$51^{\circ} 07' 30''$	$29^{\circ} 26'$

Resultant bearing of reference point N. $89^{\circ} 53' 23'' W.$

(2)

Telescope	l.m.t.	Horizontal Angle	Vertical Angle
Direct	2h. 35m. 35s.	$50^{\circ} 22' 00''$	$29^{\circ} 26'$
Reverse	2h. 36m. 45s.	$50^{\circ} 43' 00''$	$28^{\circ} 44'$
Mean	2h. 36m. 10s.	$50^{\circ} 32' 30''$	$29^{\circ} 05'$

Resultant bearing of reference point N. $89^{\circ} 53' 43'' W.$

Mean bearing of reference point N. $89^{\circ} 53' 33'' W.$

January 26, 1915.

At 3h. 0m. p.m., l.m.t., I lay off $89^{\circ} 54'$ to the right of the reference point used in the foregoing solar obsns. and establish a meridian by a tack driven in a stake set firmly in the ground 10.00 chs. N. of my station. From this meridian all courses of this survey are deflected.

Prior to commencing survey of this claim I retrace the public land lines as follows:

Beginning at the cor. of (unsurveyed) secs. 33 and 34, T. 23 S., R. 18 E., and surveyed secs. 3 and 4, T. 24 S.

CORONADO NATIONAL FOREST

STATE OF ARIZONA

Chains	<p>R. 18 E., G. & S. R. B. & M., which is a sandstone 8 x 8 x 6 ins. above ground, marked and witnessed as described by the Surveyor General.</p> <p>Thence South. On a random line bet. secs. 3 and 4.</p>
40.15	<p>Fall 2 lks. W. of the 1/4 sec. cor. bet. secs. 3 and 4, a sandstone 6 x 6 x 8 ins. above ground, marked and witnessed as described by the Surveyor General.</p> <p>Thence N. 0° 02' W. On a true line bet. secs. 3 and 4.</p>
16.93	<p>Set temp. point.</p>
40.15	<p>Intersect cor. to secs. 3, 4, 33 and 34, previously described.</p>
<hr/>	
	<p>Thence East. On a random line bet. secs. 3 and 34.</p>
40.15	<p>Fall 10 lks. S. of the 1/4 sec. cor. bet. secs 3 and 34, which is a sandstone 8 x 6 x 8 ins. above ground, marked and witnessed as described by the Surveyor Gen- eral.</p> <p>Thence S. 89° 51' W. On a true line bet. secs. 3 and 34.</p>
10.24	<p>Set temp. point.</p>
40.15	<p>Intersect cor. to secs. 3, 4, 33 and 34, previously described.</p>
<hr/>	
	<p>Thence West. On a random line bet. secs. 4 and 33.</p>
40.04	<p>Fall 2 lks. N. of the 1/4 sec. cor. bet. secs. 4 and 33, which is a sandstone 8 x 6 x 6 ins. above ground, mark- ed and witnessed as described by the Surveyor General.</p> <p>Thence N. 89° 58' E. On a true line bet. secs. 4 and 33.</p>

Chains

24.06

Set temp. point.

40.04

Intersect cor. to secs. 3, 4, 33 and 34, previously described.

January 26, 1915.

January 27, 1915.

Beginning at cor. No. 1 and C. C. on line bet. secs. 3 and 34.

Set a limestone 24 x 14 x 8 ins., 14 ins. in the ground, over a marked stone, marked + at point, 1 - H E S 294 on E. face and C C on NW. face; and raise a mound of stone 2 ft. base, 1-1/2 ft. high, N. 19° 29' W., 3-1/2 ft. dist. from cor., from which:

A white oak, 14 ins. dia., blazed and scribed

1 H E S 294 + B T, bears N. 37° 45' E., 22 lks. dist.

A black oak, 8 ins. dia., blazed and scribed

1 H E S 294 + B T, bears S. 20° 44' E., 194 lks. dist.

1/4 cor. bet. secs. 3 and 34, bears N. 89°

51' E., 10.24 chs. dist.

Cor. to secs. 3, 4, 33 and 34, bears S. 89°

51' W., 29.91 chs.

Mag. decl. at cor. No. 1 at 8h. Om., a.m., l.m.t., 13°

27' E., which reduced by Table G, Manual of 1894,

diurnal change in mag. decl., gives a mean mag. decl.

of 13° 26' E.

Lat. 31° 23' N., Long. 110° 30' 24" W., obtained from special

instructions from the Surveyor General, and later verified,

Thence S. 19° 29' E.

Asc. 55 ft. on N. slope, through scattering oak.

110° 30' 24"

CORONADO NATIONAL FOREST

STATE OF ARIZONA

57

- Chains, 11.50 Leave oak, bears NW. and SE. Enter mesa slopes W.
12.17 To cor. No. 2.
Identical with cor. No. 3 of list No. 1269, which is a granite stone 22 x 14 x 5 ins., surrounded by a mound of stone 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 26 x 12 x 10 ins., 16 ins. in the ground, over a marked stone, marked (+) at the point and 2 - H E S 294 on the side facing the claim; and raise a mound of stone 3 ft. base, 1-1/2 ft. high within the claim, 3-1/2 ft. dist. from cor., from which:
A white oak, 14 ins. dia., blazed and scribed 2 H E S 294 + B T, bears N. 62° 34' W., 203 lks. dist.
A black oak, 12 ins. dia., blazed and scribed 2 H E S 294 + B T, bears N. 2° 17' W., 94 lks. dist.
-
- Thence S. 70° 52' W.
Desc. 10 ft. over open mesa.
13.10 Desc. 65 ft. over W. slope.
16.20 Draw, course S. Asc. 50 ft. over SE. slope.
19.40 Ridge, bears NE. and SW., slopes SE.
20.00 Desc. 125 ft. to foot of hill, slope SW.
25.00 Desc. 30 ft.
29.67 Leave listed land. At this point Parker Creek, 60 lks. wide, course West, bears N. 1.00 ch.
36.01 To cor. No. 3 and C. C. on line bet. secs. 3 and 4.
I set a porphyry stone 24 x 8 x 8 ins., 14 ins. in the ground, over a marked stone, marked (+) at the point and 3 - H E S 294 on N. face and C C on NE. face; and

CORONADO NATIONAL FOREST

STATE OF ARIZONA

12.17
Chains raise a mound of stone 2 ft. base, 1-1/2 ft. high,
N. 70° 52' E., 3-1/2 ft. dist. from cor., from which:
A black oak, 6 ins. dia., blazed and scribed
3 H E S 294 + B T, bears N. 32° 33' W.,
30 lks. dist.
A black oak, 10 ins. dia., blazed and scribed
3 H E S 294 + B T, bears S. 68° 00' E.,
107 lks. dist.
1/4 cor. bet. secs. 3 and 4 bears S. 0° 02' E.,
16.93 chs.
Cor. H-4 of the list 1269, a granite stone 6 x 6
x 12 ins. above ground, marked and witnessed
as described by the Forest Service, bears N.
73° 22' E., 6.43 chs. dist. I destroy all
trace of this cor. and its witnesses.
Cor. H-1 of list 3-2845, a granite stone, 8 x 4
x 10 ins. above ground, marked and witnessed
as described by the Forest Service, bears N.
29° 41' E., 6.75 chs. dist. I destroy all
trace of this cor. and its witnesses.
Cor. H-2 of list 3-2845, a granite stone, 8 x 4
x 10 ins. above ground, marked and witnessed
as described by the Forest Service, bears N.
50° 04' W., 4.72 chs. dist. I destroy all
trace of this cor. and its witnesses.
Thence S. 70° 52' W.
Desc. 5 ft.
1.20 Enter oak timber, bears NW. and SE.
10.00 Leave oak timber, enter scattering walnut timber in
creek bottom
10.51 Cor. H-3 of the list 3-2845, a granite stone 6 x 4 x 6
ins. above ground, marked and witnessed as described

CORONADO NATIONAL FOREST

STATE OF ARIZONA

Chains by the Forest Service. I destroy all trace of this cor. and its witnesses. Continue over unlisted land.

17.75 To cor. No. 4.
I set a granite stone 26 x 12 x 8 ins., 16 ins. in the ground, over a marked stone, marked (+) at the point and 4 - H E S 294 on the side facing the claim; and raise a mound of stone 2 ft. base, 1-1/2 ft. high within the claim, 3-1/2 ft. dist. from cor., from which:
A walnut 8 ins. dia., blazed and scribed
4 H E S 294 + B T, bears N. 46° 36' E., 56 lks. dist.
An ash 20 ins. dia., blazed and scribed
4 H E S 294 + B T, bears S. 57° 33' E., 92 lks. dist.
Cor. H-5 of list 3-2845, a granite stone 8 x 4 x 8 ins. above ground, marked and witnessed as described by the Forest Service, bears N. 37° 21' E., 15.98 chs. dist. I destroy all trace of this cor. and its witnesses.

Thence North.

1.00 Parker Creek, 2.00 chs. wide, banks 4 ft. high, course NW.

3.00 Enter bottom.

3.25 Road, bears NW. and SE.

3.98 Cor. H-4 of list 3-2845, a granite stone 5 x 4 x 10 ins. above ground, marked and witnessed as described by the Forest Service. I destroy all trace of this cor. and its witnesses.

4.50 Foot of hill, bears NW. and SE. Asc. 20 ft. through scattering oak.

7.00 Enter open mesa, slopes S. Leave oak timber, bears E. and W. Asc. 10 ft.

Chains destroyed by the Forest Service
28.45 To cor. No. 5.

I set a sandstone 24 x 14 x 8 ins., 14 ins. in the ground, over a marked stone, marked with a (+) at the point and 5 H E S 294 on the side facing the claim; and raise a mound of stone 2 ft. base, 1-1/2 ft. high within the claim, 3-1/2 ft. dist. from cor., from which:

A black oak, 10 ins. dia., blazed and scribed
5 H E S 294 + B T, bears S. 72° 01' W.,
80 lks. dist.

A black oak, 14 ins. dia., blazed and scribed
5 H E S 294 + B T, bears South, 183 lks. dist.

Thence N. 54° 42' E.

0.96 To cor. No. 6 and C. C. on line bet. secs. 4 and 33.

Set a porphyry stone, 24 x 10 x 6 ins., 14 ins. in the ground over a marked stone, marked with a (+) at the point, 6 H E S 294 on E. face and C C on SW. face; and raise a mound of stone 2 ft. base, 1-1/2 ft. high, S. 54° 42' E., 3-1/2 ft. dist. from cor., from which:

A black oak, 10 ins. dia., blazed and scribed
6 H E S 294 + B T, bears S. 89° 58' W.,
165 lks. dist.

A black oak, 10 ins. dia., blazed and scribed
6 H E S 294 + B T, bears S. 46° 11' W., 229 lks. dist.

1/4 cor. bet. secs. 4 and 33 bears S. 89° 58' W.,
24.06 chs. dist.

Cor. to secs. 3, 4, 33 and 34 bears N. 89° 58' E.,
15.98 chs. dist.

Cor. H-6 of list 3-2845, a granite stone 8 x 4 x 8 ins. above ground, marked and witnessed as described by the Forest Service, bears N. 58° 05' E., 6.62 chs. dist.

CORONADO NATIONAL FOREST

STATE OF ARIZONA

Chains I destroy all trace of this cor. and its witnesses.
 Cor. H-7 of list 3-2845, a granite stone 8 x 8 x 8 ins.
 above ground, marked and witnessed as described by the
 Forest Service, bears N. 57° 04' E., 23.89 chs. dist.
 I destroy all trace of this cor. and its witnesses.
 Cor. H-1 of list 1269 and Cor. H-9 of list 3-2845, a
 granite stone 5 x 7 x 10 ins. above ground, marked and
 witnessed as described by Forest Service, bears N. 58°
 30' E., 6.40 chs. Destroy all trace of this cor. and
 its witnesses.

Thence N. 54° 42' E.
 Over open mesa, slopes South.
 4.30 Desc. 15 ft.
 6.10 Wash, 10 lks. wide, course S. Asc. 20 ft.

10.00 Enter open mesa, slopes SE. Desc. 5 ft.
 16.00 Leave mesa, bears N. and S. Desc. 15 ft. to foot of
 hill, slopes E.
 18.00 Enter bottom land, bears N. and S.
 19.20 Wash, 20 lks. wide, course S. Continue in bottom land.
 23.00 Leave bottom, bears N. and S. Asc. 30 ft.
 25.20 Top of ridge, slopes SW., bears NE. and SW.
 27.10 Desc. 20 ft.
 28.00 Wash, 10 lks. wide; course SSW. Asc. 40 ft.
 34.25 Edge of flat-topped ridge, course NE. and SW.; slopes SW.
 Asc. 10 ft. over ridge.
 45.07 To cor. No. 7.
 Identical with cor. No. 2 of list No. 1269, which is a
 granite stone 20 x 12 x 10 ins., surrounded by a mound
 of stone, marked and witnessed as described by the For-
 est Service. I destroy all trace of the list cor. and
 at this point I set a sandstone 24 x 10 x 8 ins., 14 ins.
 in the ground, over a marked stone, marked with a (+)

CORONADO NATIONAL FOREST

STATE OF ARIZONA

Chains at the point and 7 H E S 294 on the side facing the claim; and raise a mound of stones, 2 ft. base, 1-1/2 ft. high within the claim, 3-1/2 ft. dist. from cor., from which:

A white oak, 16 ins. dia., blazed and scribed 7 H E S 294 + B T, bears S. 42° 10' W., 146 lks. dist.

A white oak, 6 ins. dia., blazed and scribed 7 H E S 294 + B T, bears S. 11° 43' E., 109 lks. dist.

Cor. H-8 of list 3-2845, a granite stone 6 x 4 x 6 ins. above ground, marked and witnessed as described by the Forest Service, bears S. 48° 24' W., 21.08 chs. dist.

I destroy all trace of this cor. and its witnesses.

Thence S. 19° 29' E.

Over listed land. Desc. 30 ft.

- 4.50 Edge of perpendicular sandstone cliff 25 ft. high.
Desc. 10 ft.
- 7.20 Parker Creek, 3 chs. wide, banks 4 ft. high, course SW.
- 8.10 Road, bears NE. and SW. (Note: Road is in creek bed).
- 11.15 Asc. 10 ft. Small ridge slopes NW., bears NW. and SE.
Desc. 5 ft.
- 15.80 Wash, 2.50 chs. wide, banks 4 ft. high, course W. Enter oak, bears E. and S. Asc. 100 ft. through scattering oak timber on NE. slope.
- 27.43 To cor. No. 1 and place of beginning.

Area.

Area in Sec. 3	56.62 acres
Area in Sec. 4	43.75 acres
Area in Secs. 33 and 34	59.49 acres
(+) Total area	159.86 acres

CORONADO NATIONAL FOREST

STATE OF ARIZONA

Chains Area listed land - - - - - 131.28 acres ✓

Area unlisted land - - - - - 28.58 acres ✓

IMPROVEMENTS.

The improvements made upon and for the benefit of this homestead consist of the following:

An adobe house, 16 x 30 ft., the long side of which bears E. and W. and the SW. cor. of which bears N. 73° 00' E., 19.20 chs. dist. from cor. No. 6.

Value ----- \$250.00

A well, 4 ft. dia. x 28 ft. deep; the center of which bears N. 75° 40' E., 19.80 chs. dist. from cor. No. 6.

Value ----- \$ 60.00

A windmill over the above well.

Value ----- \$125.00

Approximately one mile of wire fence.

Value ----- \$ 75.00

DESCRIPTION.

This claim is located in Parker Canyon. It has a small amount of good agricultural soil, the major part being pasture land. There is a scattered stand of white and black oak timber upon the claim. This timber has no commercial value except as fire wood, and the distance from a railroad or market would make the cost of handling it prohibitive.

This is not a mineralized section and I saw no indication of mineral upon the claim.

CONFLICTS AND ADJOINING CLAIMS.

There are neither conflicts nor adjoining claims.

There is an area of approximately 25-1/2 acres included within this survey that lies on the N., W. and S. sides

CORONADO NATIONAL FOREST

STATE OF ARIZONA

Chains 88. of the listed portion of this survey. This land was
across 88. included to simplify the boundaries of the claim and
reduce the number of corners.

Parker Canyon Post Office is 1 mile in a southwesterly
direction. Patagonia, the nearest railroad station
in the United States is 28 miles by wagon road in a
westerly direction.

Traverse, Sec. 3, Surveyed

Course	Dist.	N	S	E	W
S. 19° 29' E.	12.17		11.47	4.06	
S. 70° 52' W.	36.01		11.80		34.02
N. 0° 02' W.	23.22	23.22			0.01
N. 89° 51' E.	29.91	0.08		29.91	
	101.31	23.30	23.27	33.97	34.03
		23.27			33.97
Error in lat. and dep.	0.03				0.06

Closing error 1:1510.

Traverse in Sec. 4, Surveyed.

Course	Dist.	N	S	E	W
S. 0° 02' E.	23.22		23.22	0.01	
S. 70° 52' W.	17.75		5.82		16.77
North	28.45	28.45			
N. 54° 42' E.	0.96	0.55		0.78	
N. 89° 58' E.	15.98	0.01		15.98	
	86.36	29.01	29.04	16.77	16.77
			29.01	16.77	
Error in Lat. and Dep.		0.03		0.00	

Closing error 1:2879.

Traverse in Secs. 33 and 34, unsurveyed.

Course	Dist.	N	S	E	W
S. 89° 58' W.	15.98		0.01		15.98
N. 54° 42' E.	45.07	26.04		36.78	
S. 19° 29' E.	27.43		25.86	9.15	
S. 89° 51' W.	29.91		0.08		29.91
	118.39	26.04	25.95	45.93	45.89
		25.95		45.89	
Error in Lat. and Dep.	0.09			0.04	

Closing error 1:1202

Survey completed January 27, 1915.

Charles D. Hodson
Surveyor - Draftsman

HOMESTEAD ENTRY SURVEY NO. 294

CORONADO NATIONAL FOREST

STATE OF ARIZONA

Chains

Computations.

(1)

Telescope	l.m.t.	Horizontal Angle	Vertical Angle	Pos. of Sun
Direct	2h. 32m. 46s.	51° 00' 00"	29° 49'	+
Reverse	2h. 34m. 22s.	51° 15' 00"	29° 03'	+
Total	<u>5h. 07m. 08s.</u>	<u>102° 15' 00"</u>	<u>58° 52'</u>	
Mean	2h. 33m. 34s.	51° 07' 30"	29° 26' 01' 26"	
Apparent time	2h. 20m. 55s.		<u>29° 24' 34"</u> = Alt.	
18° 48' 38".8 = decl.				
31° 22' 37" = lat.				
log. sin. decl. = 9.508454		log. tan. lat. = 9.785223		
log. cos. lat. = 9.931336		log. tan. alt. = <u>9.751039</u>		
log. cos. alt. = <u>9.940085</u>		- .34377 = log. -9.536262		
log. = <u>9.871421</u>				
log. = <u>9.637033</u>		- .43354		
Cos. A. = - .77731				
A. = S. 38° 59' 07" W.				
		<u>51° 07' 30"</u>		
		S. 90° 06' 37" W.		
		N. 89° 53' 23" W.		

(2)

Telescope	l.m.t.	Horizontal Angle	Vertical Angle	Pos. of Sun
Direct	2h. 35m. 35s.	50° 22' 00"	29° 26'	+
Reverse	2h. 36m. 45s.	50° 43' 00"	28° 44'	+
Total	<u>5h. 12m. 20s.</u>	<u>101° 05' 00"</u>	<u>58° 10'</u>	
Mean	2h. 36m. 10s.	50° 32' 30"	29° 05' 01' 27"	
Apparent time	2h. 23m. 31s.		<u>29° 03' 33"</u> = Alt.	
18° 48' 37".2 = decl.				
31° 22' 37" = lat.				
log. sin. decl. = 9.508444		log. tan. lat. = 9.785223		
log. cos. lat. = 9.931336		log. tan. alt. = <u>9.744807</u>		
log. cos. alt. = <u>9.941570</u>		- .33887 = log. 9.530030		
log. = <u>9.872906</u>				
log. = <u>9.635538</u>		- .43205		
Cos. A. = - .77092				
A. = 39° 33' 47"				
		<u>50° 32' 30"</u>		
		S. 90° 06' 17" W.		
		N. 89° 53' 43" W.		

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. 294, STATE OF Arizona.

CORNERS.	BEARING.	DISTANCE.	LATITUDES.		DEPARTURES.		DOUBLE M. D.	N. AREAS.	S. AREAS.
			NORTH.	SOUTH.	EAST.	WEST.			
1-2	S. 19° 29' E.	12.17		11 47	4 06	33 49	63 92	733 16	
2-3	S. 70° 52' W.	36.01		11 80		34 02	33 99	401 42	
3-cor. secs. 3, 4, 33 and 34	N. 0° 02' W.	23.22	23 22		43	0 01	00 00		
3-cor. secs. 3, 4, 33 & 34 - 1.	N. 89° 51' E.	29.91	0 08		29 91		29 93		
		101.31	23 30	23 27	33 97	34 03		1134 58	
	Closing error	1:1510	23 21	23 28	33 99	33 99		2 10	
Surveyed Sec. 3.								1132 48	
								Area -	56 62 Acres
cor. secs. 3, 4, 33 & 34 - 3, 4	S. 0° 02' E.	23.22		23 22	0 01		33 53	778 23	
3 - 4	S. 70° 52' W.	17.75		5 82		16 77	16 77	97 43	
4 - 5	North	28.45	28 45				00 00		
5 - 6	N. 54° 42' E.	0 96	0 55		0 78		0 78		
6 - cor. secs. 3, 4, 33 & 34.	N. 89° 58' E.	15.98	0 01		15 98		17 54		
		86.36	29 01	29 04	16 77	16 77		875 66	
	Closing error	1:2879	29 02	29 02	16 77	16 77		0 61	
Surveyed Sec. 4.								875 05	
								Area -	43 75 Acres

T.H.

- 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. 294, STATE OF Arizona

CORNERS.	BEARING.	DISTANCE.	LATITUDES.		DEPARTURES.		DOUBLE M. D.		N. AREAS.	S. AREAS.
			NORTH.	SOUTH.	EAST.	WEST.				
3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34	S. 89° 58' W.	15.98	0 01	0 01	76	15 98	15 98			0 48
6-7	N. 54° 42' E.	45.07	26 04	88	36 78	36 76	36 76	956 13		
7-1	S. 19° 29' E.	27.43		25 86	9 15	82 66	82 66		2139 24	
3, 4, 23 & 24	S. 89° 51' W.	29.91		0 08		29 91	61 88		6 19	
		118.39	26 04	25 95	45 93	45 89		956 13	2145 91	
			26 01	26 01	45 90	45 90			956 13	
Closing error 1:1202									1189 78	
Unsurveyed Secs. 33 and 34.								Area -	59 49 Acres	

APPROVAL

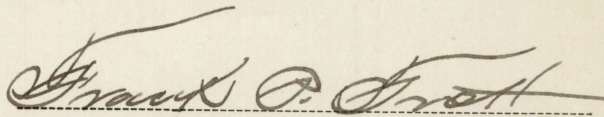
Office of the United States Surveyor General,

Phoenix, Arizona, April 4, , 1917.

The foregoing field notes of Homestead Entry Survey No.

294

executed by Charles D. Hodson, Surveyor-Draftsman, [Forest Service Title.]
under his special instructions, dated October 17 , 1914, 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.

- 73
- 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.

8-2340

Mass. of Silled Area.

TABLING AND CALCULATIONS OF HOMESTEAD ENTRY SURVEY NO. 294, STATE OF Wisconsin

CORNERS.	BEARING.	DISTANCE.	LATITUDES.		DEPARTURES.		DOUBLE M. D.		N. AREAS.	S. AREAS.
			NORTH.	SOUTH.	EAST.	WEST.				
<i>Subd</i> A6-N5	S9°26'2"	20.07		19.80	3.29	9.69	16.09		318.42	
<i>Subd</i> N5-N4	S48°01'W	13.04		8.72	6.84	6.84	9.69		84.40	
<i>Subd</i> N4-N3	S76°48'5"	21.03			6.31	6.84	6.84		11.01	
<i>Subd</i> N3-N2	N44°15'E	9.04	6.49		6.96	9.99	19.99	129.74		
<i>Subd</i> N2-N1	N67°51'E	21.51	2.83		2.82	33.26	33.26	94.46		
<i>Subd</i> N1-N0	S35°07'S	4.91	2.48		2.82	43.04	43.04		173.02	
<i>Subd</i> N0-N9	N70°20'S	29.59	2.48		2.82	73.72	73.72	735.73		
<i>Subd</i> N9-N8	N19°29'W	39.60	3.35		13.22	88.36	88.36	3300.25		
<i>Subd</i> N8-N7	S48°24'W	21.08		1.90	15.76	59.38	59.38		830.73	
<i>Subd</i> N7-N6	N46°16'W	1.36	94		98	42.64	42.64	40.08		
<i>Subd</i> N6-N5	S56°39'W	17.27		8.48	14.43	27.28	27.28		258.14	
		170.50	57.54	57.64	54.08	54.07		4300.26	1675.72	
			57.60	57.60	54.08	54.08		1675.72		
								20	2624.54	
								31	28	

Closing Error 18° 16' 97"

Area.