

ORIGINAL

141

U. S. DEPARTMENT OF AGRICULTURE FOREST SERVICE

NOV 5 - 1918

APR 10 1919

AN 3-1916
MAY 24 1918

FIELD NOTES

OF

HOMESTEAD ENTRY SURVEY NO. 329

SITUATED IN THE **PRESCOTT** NATIONAL FOREST

ADMINISTRATIVE DISTRICT NO. 3

In Section 10, unsurveyed, Township 14 N., Range 3 E.

In Section 6, --surveyed, Township 14 N., Range 4 E.

In Section 7, unsurveyed, Township 14 N., Range 4 E.

of the

Gila and Salt River Base and Meridian.

State of

ARIZONA.

Applicant for listing **Lee N. Wombacker,**

Residence **Cherry, Arizona.**

Application No. **143**, dated **April 16**, 19 **13** ✓

List No. **3-2732**, dated **August 11**, 19 **13** ✓

Applicant for survey **Lee N. Wombacker,**

Residence **Cherry, Arizona.**

H. E. No. **024946**, dated **April 25**, 19 **14** ✓

Land ~~District~~ **Office** **Phoenix, Arizona.**

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

Under special instructions dated **February 11**, 19 **15.**

Survey commenced **May 12**, 19 **15**

Survey completed **May 14**, 19 **15**

Under Acts of **June 4, 1906 and June 30, 1914.** ✓

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OATH OF ASSISTANTS

We hereby certify that we assisted **R. P. A. Johnson,**
Surveyor - Draftsman, in surveying all those
[Forest Service Title.]

parts or portions of Homestead Entry Survey No. **329**, 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.

Charles D. Jackson - Chairman.
Ed. Baecht - Chairman.

Subscribed and sworn to before me this *twenty third* day of
May, 19 *15*.
R. P. A. Johnson
Surveyor Draftsman

OATH OF SURVEYOR

I, **R. P. A. Johnson, Surveyor - Draftsman,**
[Forest Service Title.]

do solemnly swear that, in strict conformity with the special instruc-
tions of the United States Surveyor General for **Arizona**, dated
February 11, 19 **15**, 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**

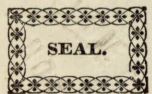
List Patent, No. **3-2732**, dated **August 11**, 19 **13**, for
the same to be known as Homestead Entry Survey No. **329**,
situated within the **Prescott** National Forest, in
un surveyed Section 1, Township **14 N.**, Range **3 E.**, and
-- surveyed Section 6, Township **14 N.**, Range **4 E.** and,
unsurveyed Section 7, Township **14 N.**, Range **4 E.**

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 perpetuated in strict accordance with the stated special
instructions, and in the specific manner described in the field notes,
and that the following are the original field notes of such survey.

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

Subscribed and sworn to before me this *twelfth* day of
June, 19 *15*.

Elsie C. Myers
Notary Public



PRESCOTT NATIONAL FOREST

STATE OF ARIZONA

Chains

Applicant for listing, Lee N. Wombacker; Application No. 143, dated April 16, 1913; List No. 3-2732, dated August 11, 1913; H. E. No. 024946 made in the Phoenix Land Office on April 25, 1914 by Lee N. Wombacker. Surveyed under special instructions from the Surveyor General for Arizona, dated February 11, 1915, and designated as Homestead Entry Survey No. 329. Situated in surveyed sec. 6 and unsurveyed sec. 7, T. 14 N. R., 4 E., and in what will probably by when surveyed, sec. 14 T. 14 N., R. 3 E., Gila and Salt River Base and Meridian, Prescott National Forest, Arizona.

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

Survey commenced May 12, 1915, and executed with a Buff and Buff transit.

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

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

May 12, 1915.

At 7h. 41.5m., p.m., l.m.t., I observe Polaris at cor.

No. 1, telescope direct, and mark line thus determined by a tack in a stake set 5.00 chs. N. of my station.

Lat. $34^{\circ} 39' 15''$ N., (by observation) Long. $111^{\circ} 58' 30''$ W., from special instructions of Surveyor General and later verified.

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Chains

Astron. l.m.t. obsn. May 11, 1915 31h.41.5m.

Astron. l.m.t. U.C. Pol. May 11, 1915 22h.11.8m.

Correction for Long. 9h.29.7m' / 1.2m.

Hour angle Polaris at obsn. 9h.30.9m'

Azimuth of Polaris 0° 49' 40" W.

At 7h. 34.9m. p.m., l.m.t., I again observe Polaris at cor. No. 1, telescope reversed.

Astron. l.m.t. obsn. May 11, 1915 31h.44.9m.

Astron. l.m.t. U.C. Pol. May 11, 1915 22h.11.8m.

Correction for Long. 9h.33.1m. / 1.2m.

Hour angle Polaris obsn. 9h.34.3m.

Azimuth of Polaris 0° 48' 40" W.

May 13, 1915.

I turn off 0° 49' 40" and 0° 48' 40" to E. from my line of sight of last night's observations and mark line thus determined with a tack in a stake. These two observations agree within a few seconds.

At 7h.58.4m.a.m., l.m.t., I observe the altitude of the sun for azimuth at cor. No. 1. The reading on the meridian established from last night's observation is set at zero and the sun was observed in the lower left and upper right quadrants of the field. My watch is set for local mean time.

Telescope	Time	Horizontal Angle	Vertical Angle
Direct	7h.58m.20.2s.	89° 19' 00"	34° 14' 00"
Reversed	7h.58m.50s.	89° 46' 00"	33° 18' 00"

This defines a line that differs 0° 01' 03" from the meridian determined from last night's observations. I

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Chains mark mean of these two lines and to corresponding meridian all the courses of this survey are referred.

At apparent noon, I observe the sun on the meridian for time and latitude.

Telescope	Sun's Limb	Watch Time	Vertical Angle
Direct	upper and right	11h. 57m. 32s.	73° 53' 30"
Reverse	Lower and left	11h. 59m. 44s.	73° 21' 00"

From this observation, I calculate the latitude to be 34° 39' 15" N., and my watch to be 2m. 24s. fast. The time of last night's observations of Polaris is corrected accordingly.

RETRACEMENTS AND RESURVEYS

May 13, 1915.

Beginning at 1/4 sec. cor. bet. secs. 1 and 6, T. 14 N., Rs. 3 and 4 E., which is a granite stone 8 x 8 x 8 ins. above ground, marked 1/4 on S. face, with mound of stone to West. I retrace the section line and re-establish lost cor. as follows:
Thence South.

On call between secs. 1 and 6.

40.00 The cor. to secs. 1, 6, 7 and 12, which is described by the Surveyor General as a post with charred stake and pits, but am unable to find any traces of post, stake pits or mound. I proceed to re-establish the cor. in accordance with special instructions as follows:

Set a granite stone 24 x 8 x 10 ins., 14 ins. in the ground, over a small stone marked with a cross, for

cor. secs. 6 and 7 on W. bdy. of T. 14 N., R. 4 E. chiseled with 1 notch on north and 5 notches on S. edges; dig pits 18 x 18 x 12 ins. in each section, 5 1/2 ft. dist. and raise a mound of earth 4 ft. base, 2 ft. high W. of cor.

Note: The protraction of public land lines furnished by the Surveyor General with the special instructions for H.E.S. 329 shows that T. 14 N., R. 3 E. will, when surveyed, exceed six miles. I therefore re-establish

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STATE OF ARIZONA.

Chains from this cor. to cor. to secs. 6 and 7 on W. bdy. of

secs. 14 N., R. 4 E.

Thence S. 89° 54' E.

Retracing W/2 line between secs. 6 and 7, T. 14 N.,

R. 4 E.

38.70 Fall 80 lks. N. of 1/4 sec. cor. between secs. 6 and 7,

which is a granite stone 10 x 7 x 8 ins. above ground,

chiseled 1/4 on E. face with mound of stone to N.

Return course N. 88° 43' W., 38.71 chs.

Thence S. 89° 54' E.

Retracing E/2 line between secs. 6 and 7.

40.00 The cor. to secs. 5, 6, 7 and 8 is not found after care-

ful search.

Thence East.

Retracing line between secs. 5 and 8.

40.00 Fall 199 lks. N. of the 1/4 sec. cor. between secs. 5

and 8, which is a granite stone 12 x 12 x 14 ins. above

ground marked 1/4 on E. face surrounded by mound of

stone.

Return course N. 88° 34' W.

40.01 Set temp. point for cor. to secs. 5, 6, 7 and 8. I again

make a search for sec. cor. and fail to find it.

Thence N. 88° 28' W.

40.01 To 1/4 sec. cor. between secs. 6 and 7, heretofore de-

scribed.

I find 1/4 sec. cor. between secs. 5 and 6, which is a

granite stone 6 x 6 x 4 ins., chiseled 1/4 on south

face with mound of stone to W. This cor. is described

by the Surveyor General as post with mound of earth

and pits. I find no trace of post, pits or mound.

Thence North.

Retracing line between secs. 5 and 6.

38.79 Fall 244 lks. west of cor. common to secs. 5, 6, 31 and 32,

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Chains which is a lava stone 12 x 8 x 8 ins. above ground, marked and witnessed as described by the Surveyor General.

Thence S. 3° 36' W. On true line between secs. 5 and 6. 38.87 To 1/4 sec. cor. between secs. 5 and 6, heretofore described.

Thence S. 0° 09' E. On call between secs. 5 and 6. 40.00 Set temp. point for cor. to secs. 5, 6, 7 and 8. At this point I again make a careful search for sec. cor. which is described by the Surveyor General as a post with pits mound of earth and marked stone, but I am unable to find any traces of post, pits, mound or memorial. I turn right angle to this line and intersect right angle line, through point previously established by double proportionate measurements between 1/4 sec. cors. between secs. 6 and 7 and secs. 5 and 8, 102 lks. west of the temp. 40 chain point and 60 lks. N. of proportionate measure point. At the intersection, I re-establish the cor. to secs. 5, 6, 7 and 8 as follows:

Set a granite stone 24 x 8 x 8 ins. 14 ins. in the ground, over a small stone marked with a cross, for cor. of secs. 5, 6, 7 and 8, chiseled with 5 notches on south and east edges; dig pits 18 x 18 x 12 ins. in each sec. 5 1/2 ft. dist.; and raise a mound of earth 4 ft. base, 2 ft. high W. of cor.

1/4 cor. between secs. 5 and 8 bears S. 87° 43' E. 40.04 chs. dist.

1/4 cor. between secs. 5 and 6 bears N. 1° 18' E. 40.01 chs. dist.

1/4 cor. between secs. 6 and 7 bears N. 89° 20' W. 40.00 chs. dist.

Chains From cor. for secs. 5, 6, 31 and 32 heretofore described.

Thence West.

Retracing line between E/2 sec. 6 and 31.

40.23 Fall 140 lks. S. of 1/4 sec. cor. between secs. 6 and 31 which is a granite stone 8 x 4 x 10 ins. above ground marked 1/4 on S. face and witnessed as described by Surveyor General.

Return course S. 88° E., 40.25 chs.

Thence West,

Retracing line between W/2 secs. 31 and 6.

39.00 Point for cor. sec. 1, 6, 31 and 36, Ts. 14 and 15 N., Rs. 3 and 4 E., which is described by Surveyor General as post with marked stone, pits and mound. I make strict search for cor. but fail to find any trace of post, pits, mound or memorial.

Thence South.

Retracing line between N/2 of secs. 1 and 6.

38.62 Fall 276 lks. East of 1/4 sec. cor. between secs. 6 and 1 heretofore described.

May 14, 1915.

BOUNDARIES OF CLAIM

Beginning at cor. No. 1 and Closing Corner on line between secs. 6 and 7, set a granite stone 24 x 18 x 8 ins. 14 ins. in the ground, over a small stone marked with a cross, chiseled L H E S 329 on the south face and C C on SW. face. No witnesses available; therefore dig pits crosswise on each line 30 x 24 x 12 ins. N. 88° 43' W., 3 ft. dist. and 24 x 18 x 12 ins. S. 70° 22' W. of stone, 7 ft. dist., and raise a mound of earth and stone 5 ft. base, 3 ft. high, S. 70° 22' W. of cor.

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STATE OF ARIZONA.

Chains Cor. to secs. 6 and 7 on W. bdy T. 14 N., R. 4 E. heretofore described, bears N. 88° 43' W., 2.76 chs. dist.

1/4 cor. bet. secs. 6 and 7, heretofore described bears S. 88° 43' E., 35.95 chs. dist.

Lat. 34° 39' 15" N. by observation. Long 111° 58' 30"

W. by account from special instructions, and later

verified.

Mag. decl. at 8:00 a.m., 14° 48' E. Mean Mag. decl.

14° 45' E.

Thence N. 70° 22' E.

Descend along flat 20 ft. to cor.

8.79 Arroyo, 60 lks. wide, banks 3 ft. high, course ESE.

39.86 To cor. No. 2.

On line 3 - 4 of H. E. S. 330.

Identical with cor. H-4 of the list survey which is a

granite stone 8 x 9 x 5 ins. above ground, marked and

witnessed as described by the Forest Service. I des-

troy all trace of this list cor. in place of which I

set a granite stone 24 x 14 x 6 ins., 14 ins. in the

ground over a small stone marked with a cross, chisel-

ed 2 H E S 329 on S. face. No witnesses, therefore

of dig pits 24 x 24 x 12 ins. crosswise on this and the

succeeding course, 7 ft. dist.; raise a mound of earth

and rock, 5 ft. base, 3 ft. high, 3 1/2 ft. dist. with-

in the claim.

Cor. No. 4 of H. E. S. 330, a granite stone 12 x 12

x 10 ins. above ground, marked + on top and 4 H E

S 330 on SE. face, bears N. 19° 01' W., 7.50 chs.

by direct measurement.

Thence S. 19° 01' E.

Along line 4 - 3 of H. E. S. 330 across flat.

Chains

4.65 Arroyo, 35 lks. wide, 12 ft. deep, course ENE. Continue across flat.

12.50 Foot of ascent. Ascend 30 ft. to top of ridge.

15.13 To cor. No. 3 and Closing Corner on line between secs.

6 and 7, bearing S. 89° 20' W., 33.44 chs. dist.

Also cor. No. 3 of H. E. S. 330. Deposit a granite stone 4 x 4 x 2 ins. marked with a +. 14 ins. in the ground, over which set a granite stone 24 x 12 x 8 ins. chiseled + for the point, 3 H E S 329 on W. face and 3 H E S 330 on E. face, and C C on NW. face. No witnesses available, therefore dig pits 24 x 30 x 12 ins., S. 89° 20' W., 3 1/2 ft. dist., and dig pits 24 x 18 x 12 ins. N. 19° 01' W. and S. 19° 01' E., 7 ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high, 3 1/2 ft. dist. NW. of cor:

1/4 sec. cor. between secs. 6 and 7, heretofore described, bears N. 89° 20' W., 6.56 chs. dist.

Cor. for secs. 5, 6, 7 and 8, heretofore described bears S. 89° 20' E., 33.44 chs. dist.

Thence S. 19° 01' E.

Along line 3 - 2 of H. E. S. 330.

.37 Top ridge, bears ENE. and SSW. Descend 30 ft. to arroyo.

7.37 Arroyo, 10 lks. wide, 3 ft. deep, course ESE.

19.74 To cor. No. 4.

Identical with cor. H-3 of the list survey, which is a granite stone 6 ins. above ground, marked and witnessed as described by the Forest Service. I destroy all trace of this list cor. and in its place I set a granite stone 24 x 12 x 6 ins., 14 ins. in the

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ground over a small stone marked with a cross, chiseled
4 - H E S 329 on W. face. No bearings; therefore dig
pits 24 x 24 x 12 ins., crosswise on this and the suc-
ceeding course, 7 ft. dist., and raise a mound of earth
and rock, 5 ft. base, 3 ft. high, 3-1/2 ft. dist.
within the claim.

Cor. No. 2 of H. E. S. 330, a granite stone 12 x 6
x 10 ins. above ground, marked † on top and
2 - H E S 330 on N. face, bears S. 19° 01' E.,
12.66 chs. dist. by direct measurement.

Thence S. 70° 20' W.

Ascend along bottom 50 ft. to cor.

19.60 Arroyo, 30 lks. wide, 7 ft. deep, course NE.

50.25 Road, bears N. and S.

63.61 To cor. No. 5.

Identical with cor. H-2 of the list survey which is a
granite stone 8 x 6 x 5 ins. above ground, marked and
witnessed as described by the Forest Service. I de-
stroy all trace of this list cor., in place of which
I set a granite stone 24 x 14 x 12 ins., 14 ins. in
the ground, over a small stone marked with a cross,
chiseled 5 - H E S 329 on NE. face. No bearings;
therefore dig pits 24 x 24 x 12 ins. crosswise on this
and succeeding line, 7 ft. dist., and raise a mound
of earth and rock 5 ft. base, 3 ft. high, 3-1/2
ft. dist. within the claim.

Thence N. 19° 31' W.

Descend 20 ft. across flat to cor.

12.17 Arroyo, 10 lks. wide, 2 ft. deep, course East.

19.65 Arroyo, 60 lks. wide, 8 ft. deep, course ENE.

21.95 Arroyo, 50 lks. wide, 4 ft. deep, course SE.

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Chains

24.83 To cor. No. 6.

Identical with cor. H-1 of the list survey which is a granite stone 8 x 6 x 6 ins. above ground, marked and witnessed as described by the Forest Service. I destroy all trace of this list cor. in place of which I set a granite stone 24 x 12 x 8 ins., 14 ins. in the ground, over a small stone marked with a cross, chiseled 6 - H E S 329 on E. face. No bearings; therefore dig pits 24 x 24 x 12 ins. crosswise on this and the succeeding course, 7 ft. dist., and raise a mound of earth and rock 5 ft. base, 3 ft. high, 3-1/2 ft. dist. within the claim.

Thence N. 70° 22' E.
Descend 10 ft. along flat.

11.21 Arroyo 100 lks. wide, 3 ft. deep, course E.
19.70 Road, bears N. and S.
23.93 To cor. No. 1, the place of beginning.

AREA

Sec. 6, surveyed - - - - - 30.28 acres.
Secs. 7 and 13, unsurveyed - - - - - 128.04 acres.
Total area - - - - - 158.32 acres.

IMPROVEMENTS

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

One dry well approximately 500 ft. deep, bears N. 18° 34' W. 15.02 chs. dist. from cor. No. 5.
Cost. - - - - - \$800.00

There is no fencing and no cultivated land.

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DESCRIPTION

This claim is situated near the head of Mexican Flat at foot of the Black Hills on edge of Verde Valley. There is no timber upon the claim. The general slope is to NE. The land consists of level bottom land with a low ridge running through the center. The bottom land is cut by deep arroyos.

The soil is weathering product of granite and very deep. It will produce crops if irrigated. There is no water for irrigation or domestic use.

I saw no indication of mineral upon this claim although it is in a mineralized section.

CONFLICTS AND ADJOINING CLAIMS

There are no conflicts. H. E. S. 329 joins this claim on the east.

Camp Verde, Arizona, the nearest post office, is approximately 10 miles to SE.

Jerome, Arizona, the nearest railroad point is approximately 14 miles north. There is a good wagon road to both places.

TRAVERSES

Cor.	Courses	Dist.	N.	S.	E.	W.
1-2	N.70°22' E.	39.86	13.39		37.54	
2-4	S.19°01' E.	24.87		23.51	8.10	
4-5	S.70°20' W.	63.61		21.41		59.20
5-6	N.19°31' W.	24.83	23.40			8.29
6-1	N.70°22' E.	23.93	8.04		22.54	
		177.10	44.83	44.92	68.18	68.19
				44.83		68.18
	Error in lat and dep.			.09		.01

Closing error 1:1956

HOMESTEAD ENTRY SURVEY NO. 329

PRESCOTT NATIONAL FOREST

STATE OF ARIZONA

Chains

Sec. 6

Cor.	Course	Dist.	N.	S.	E.	W.
1-2	N. 70° 22' E.	39.86	13.39		37.54	
2-3	S. 19° 01' E.	15.13		14.30	4.93	
3-1/4	N. 89° 20' W.	6.56	.08			6.56
1/4-1	N. 88° 43' W.	35.95	.81			35.94
		97.50	14.28	14.30	42.47	42.50
				14.28		42.47
Error in lat. and dep.					.02	.03

Closing error 1:2708

Secs. 1 and 7

Cor.	Course	Dist.	N.	S.	E.	W.
1-1/4	S. 88° 43' E.	35.95		0.81	35.94	
1/4-3	S. 89° 20' E.	6.56		0.08	6.56	
3-4	S. 19° 01' E.	9.74		9.21	3.17	
4-5	S. 70° 20' W.	63.61		21.41		59.90
5-6	N. 19° 31' W.	24.83	23.40			8.29
6-1	N. 70° 22' E.	23.93	8.04		22.54	
		164.62	31.44	31.51	68.21	68.19
				31.44	68.19	
Error in lat. and dep.					.07	.02

Closing error 1:2264

Survey completed May 14, 1915.

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

R. A. Johnson

Surveyor - Draftsman

PRESCOTT NATIONAL FOREST

STATE OF ARIZONA.

Chains

Computations

Chains

Azimuth.

Direct solar May 13, 1915 at cor. No. 1.

Telescope	Time	Horizontal Angle	Vertical Angle	Pos. Sun
Direct	7h. 58m. 02s.	89° 19' 00"	34° 14' 00"	o+
Reversed	7h. 58m. 50s.	89° 46' 00"	33° 48' 00"	+°
2/15h. 56m. 52s.		179° 05' 00"	68° 02' 00"	
7h. 58m. 26s.		89° 32' 30"	34° 01' 00"	
4h. 32m. 06s.			01' 16"	
3h. 26m. 20s.			33° 59' 44"	

Decl. 18° 13' 14"

Lat. 34° 39' 15" N. Long. 111° 58' 30" W. Elevation
3600 ft.

$$\text{Cos. } Q. = \frac{\sin. 18^\circ 13' 14''}{\cos. 34^\circ 39' 15'' \times \cos. 33^\circ 59' 44'' - \tan. 34^\circ 39' 15'' \times \tan. 33^\circ 59' 44''}$$

log. sin. 18° 13' 14"	= -9.495094	
log. cos. 34° 39' 15"	= +9.915188	
log. cos. 33° 59' 44"	= +9.918597	
	9.661309=	.45847
log. tan. 34° 39' 15"	= 9.839636	
log. tan. 33° 59' 44"	= 9.828903	
	9.668539=	.46616
	Cos. Q. =	.00769

$$Q. = 89^\circ 33' 33''$$

Bearing of object N. 0° 01' 03" W.

Latitude.

Telescope	Sun's limb	Vertical Angle
Direct	Upper	73° 53' 30"
Reversed	Lower	73° 20' 00"
Apparent alt.		2/147° 13' 30"
		73° 36' 45"
Refraction		15"
		73° 36' 30"
Dec.		-18° 15' 45"
Co. lat.		55° 20' 45"
Lat.		34° 39' 15"

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Chains

Time

May 13, 1915.

Telescope	Sun's limb	Watch time
Direct	Right	11h. 57m. 32s.
Reversed	Left	11h. 59m. 44s.
		<u>2/23h. 57m. 16s.</u>
Watch time, apparent noon		11h. 58m. 38s.
Time correction		<u>3m. 46s.</u>
Watch time, noon		12h. 02m. 24s.
Noon		<u>12h. 00m. 00s.</u>
Correction, watch fast		0h. 02m. 24s.

Lat. 34° 39' 15" N. Long. 111° 58' 30" W. Elevation 3600 ft.

Cor. 1. = 13' 14" sin. 18° 15' 14"

Cor. 2. = 31' 13" x cos. 34° 39' 15"

Cor. 3. = 31' 13" x tan. 34° 39' 15"

log. sin. 18° 15' 14" = 9.492034

log. cos. 34° 39' 15" = 9.912188

log. tan. 34° 39' 15" = 9.912877

9.912877 - 9.492034 = 0.420843

log. tan. 34° 39' 15" = 9.832386

9.832386 + 0.420843 = 9.888333

9.888333 = log. tan. 34° 39' 15"

9.888333 = log. tan. 34° 39' 15"

9.888333 = log. tan. 34° 39' 15"

Bearing of object N. 0° 01' 03" W.

Latitude.

Vertical angle

Sun's limb

Telescope

78° 58' 30"

Upper

Direct

78° 50' 00"

Lower

Reversed

78° 38' 45"

apparent alt.

78° 35' 30"

Refraction

-18° 15' 45"

Dec.

83° 20' 45"

Co. lat.

84° 39' 15"

Lat.

APPROVAL

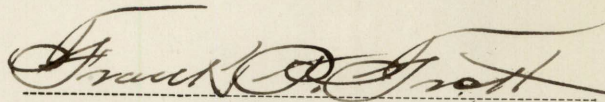
Office of the United States Surveyor General,

Phoenix, Arizona, Nov. 9, 1918

The foregoing field notes of Homestead Entry Survey No.

329

executed by R. P. A. Johnson, Surveyor-Draftsman
[Forest Service Title.]
under his special instructions, dated Feb. 11, 1915, having
been critically examined, and the necessary corrections and explanations
made, the said field notes, and the surveys they describe, are hereby
approved.


U. S. Surveyor General.

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

FRANK P. TROTT

U. S. Surveyor General.