

U. S. DEPARTMENT OF AGRICULTURE
FOREST SERVICE

FIELD NOTES

APR 13-1917

OF

HOMESTEAD ENTRY SURVEY NO. 438

SITUATED IN THE **CROOK** NATIONAL FOREST

ADMINISTRATIVE DISTRICT NO. 3

In Section 3 ,--- surveyed, Township 2 S., Range 12 E.

of the

Gila and Salt River Base and Meridian.

State of
Arizona.

Applicant for listing **Filomeno Ruiz,**

Residence **Superior, Arizona.**

Application No. **221** ✓ , dated **September 14** , 1912. ✓

List No. **3-2202** ✓ , dated **January 3** , 1913. ✓

Applicant for survey **Filomeno Ruiz,**

Residence **Superior, Arizona.**

H. E. No. **023359** ✓ , dated **September 15,** , 1913. ✓

Land Office at Phoenix, Arizona.

Survey executed by **Walter G. Turley, Surveyor, Forest Service.**
[Forest Service Title.]

Under special instructions dated **December 2** , 1915. ✓

Survey commenced **February 14** , 1916.

Survey completed **February 14** , 1916.

Under Acts of **June 11, 1906 and March 4, 1915.** ✓

OATH OF ASSISTANTS

We hereby certify that we assisted **Walter G. Turley,**
Surveyor, Forest Service in surveying all those
[Forest Service Title.]

parts or portions of Homestead Entry Survey No. **438**, 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 inconvenient to appear before
an officer to administer the oath
to assistants; hence it was taken
by the Surveyor.

Charles G. Baecht Chainman.
Ferry D. Lewis Chainman.

Subscribed and sworn to before me this *twenty eighth* day of
March, 19 *16*.

Walter G. Turley
Surveyor Forest Service

OATH OF SURVEYOR

I, **Walter G. Turley, Surveyor, Forest Service**
[Forest Service Title.]

do solemnly swear that, in strict conformity with the special instruc-
tions of the United States Surveyor General for **Arizona**, dated
December 2, 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 No. 3-2202 dated January 3, 1913 and a tract
of land upon the application of Filomeno Ruiz,

Application , No. **221**, dated **September 14** 1912, for
Patent , under the Act of **June 11**, 1906,
the same to be known as Homestead Entry Survey No. **1 438**,
situated within the **Crook** National Forest, in
---surveyed Section **3**, Township **2 South**, Range **12 East**, and
---surveyed Section ---, Township ---, Range ---,

of the **Gila & Salt River Base 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.

Walter G. Turley
Surveyor Forest Service
[Forest Service Title.]

Subscribed and sworn to before me this *8th* day of

April, 19 *16*

Elmer C. Meyer
Notary Public



8-2349

CROOK NATIONAL FOREST

STATE OF ARIZONA

Chains Applicant for listing, Filomeno Ruiz; Application No. 221, dated September 14, 1912; List No. 3-2202, dated January 3, 1913; Homestead Entry 023359, made in the Phoenix Land Office on September 15, 1913 by Filomeno Ruiz, whose postoffice address is Superior, Arizona.

Also a tract of unlisted land adjoining claimant's entry on the southwest was included in this survey. The land is agricultural in character, was desired by the entryman, and will be listed as a basis for amendment of his entry 023359.

Surveyed under Acts of June 11, 1906 and March 4, 1915 together with special instructions from the Surveyor General for Arizona dated December 2, 1915 and designated as Homestead Entry Survey No. 438.

Situated in surveyed and accepted sec. 3, T. 2 S., R. 12 E., G. & S. R. B. and M. within the Crook National Forest, Arizona.

Survey commenced February 14, 1916 and executed with a W. and L. E. Gurley light mountain transit No. 12953 provided with prism eye piece, stadia wires, vertical circle, and Burt solar attachment. The horizontal limb of the transit has two double verniers placed opposite 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.

All distances are horizontal and were reduced from measurements made directly on the slope with a 500 link steel tape graduated to links and tenths. The slope angles were determined with a clinometer, the vernier of which reads to degrees.

Chains February 14, 1916.
I set up my transit over cor. H-1 of List 3-2202 which is a diorite stone 12 x 12 x 6 ins. above ground marked and witnessed as described by the Forest Service; and, with telescope direct, I observe Polaris in accordance with instructions at 6h. 50m. a.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, in lat. $33^{\circ} 16' 55''$ N. and long. $111^{\circ} 06' 37''$ W. from special instructions from the Surveyor General.

Astron. l.m.t. obsn. Feb. 13, 1916, 18h. 50.0m.
Astron. l.m.t. U.C. Pol. Feb. 13, 1916, 3h. 58.5m.
Hour angle Pol. at obsn. 14h. 51.5m.
23h. 56.1m.
Time argument 9h. 04.6m.
Azimuth Pol. at obsn. $0^{\circ} 55' 30''$ E.

With my transit set up over cor. H-1 of List 3-2202 heretofore described, and with telescope reversed in altitude and azimuth, at 7h. 02m. a.m. l.m.t. on the same date, I again observe Polaris in accordance with instructions, 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. Feb. 13, 1916, 19h. 02.0m.
Astron. l.m.t. U.C. Pol. Feb. 13, 1916, 3h. 58.5m.
Hour angle Pol. at obsn. 15h. 03.5m.
23h. 56.1m.
Time argument 8h. 52.6m.
Azimuth of Pol. at obsn. $0^{\circ} 58' 36''$ E.

February 14, 1916.
I turn off $0^{\circ} 55\frac{1}{2}'$ the azimuth of Polaris, to the W. from its direction at 6h. 50m. a.m. l.m.t. February 14, 1916,

CROOK NATIONAL FOREST

STATE OF ARIZONA

Chains

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 $0^{\circ} 58\frac{1}{2}'$ the azimuth of Polaris to the W. from its direction at 7h.⁻02m. a.m. l.m.t. 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 $0^{\circ} 00' 08''$ of measured arc to the W. of the line previously established.

I mark 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 angulation.

Latitude $33^{\circ} 16' 55''$ N. and long. $111^{\circ} 06' 37''$ W. at cor. No. 1 of this survey by account from values stated in the special instructions. It was not practicable to check the latitude by direct observation during the execution of this survey.

My watch is set for standard 105th meridian time from which I subtract 24m. 26s. for l.m.t.

Observed magnetic declination cor. No. 1 H. E. S. 438 February 14, 1916 at 7h.⁻00m. a.m. $14^{\circ} 45'$ E. Mean magnetic declination $14^{\circ} 45'$ E.

Beginning at cor. No. 1.

Identical with cor. H-1 of List 3-2202 which is a diorite stone 12 x 12 x 6 ins. above ground marked and witnessed as described by the Forest Service. I destroy cor. H-1 and its witnesses; and for cor. No. 1 of this survey which will also be cor. No. 1 H.E.S. 439 I chisel cross on a stone 4 x 4 x 3 ins. and deposit

CROOK NATIONAL FOREST

STATE OF ARIZONA

Chains

it 14 ins. in the ground over which I set a diorite stone 24 x 10 x 8 ins. 14 ins. in the ground; chiseled cross at the point, 1 - H E S 438 on the SE. face and 1 - H E S 439 on NE. face, and raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, SE. of cor. from which

A 4 in. mesquite bears S. $36^{\circ} 15' E.$, 43 lks.
blazed and scribed 1 H E S 439 - 1 H E S 438+B T

A 5 in. mesquite bears N. $19^{\circ} 10' E.$, 164 lks.
blazed and scribed 1 H E S 439 - 1 H E S 438+B T

$\frac{1}{4}$ cor. to secs. 3 and 4 which is a trachite stone 8 x 6 x 6 ins. above ground chiseled $\frac{1}{4}$ on W. face with mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. bears N. $85^{\circ} 28' W.$, 2.04 chs. by direct measurement.

Thence N. $62^{\circ} 15' E.$

Asc. bottom 5 ft.

5.92 Cor. H-5 of List 3-3028 which is a granite stone 8 x 8 x 6 ins. above ground marked and witnessed as described by the Forest Service.

10.70 Florence-Superior wagon road bears E. and W.

14.92 To cor. No. 2, also cor. No. 3 of H. E. S. 437 and cor. No. 5 of H. E. S. 439

Identical with cor. H-2 of List 3-2202 and cor. H-1 of List 3-3028 which is a porphyry stone 6 x 6 x 5 ins. above ground marked and witnessed as described by the Forest Service. I destroy cor. H-2 and its witnesses. At this point I previously established cor. No. 3 of H. E. S. 437 which is a diorite stone 15 x 5 x 10 ins. above ground chiseled cross on top for exact point, 3 H E S 437 on E. face, 2 H E S 438 on SW. face, and 5 H E S 439 on NW. face with mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, E. of cor. whence

CROOK NATIONAL FOREST
STATE OF ARIZONA

Chains	<p>A 4 in. mesquite bears S. 53° 00' E. 62 lks. blazed and scribed 3 H E S 437 + B T</p> <p>A 5 in. hackberry bears N. 24° 30' E. 194 lks. blazed and scribed 3 H E S 437 + B T</p> <p>A 4 in. mesquite bears S. 50° 40' E. 63 lks. blazed and scribed 2 H E S 438 + B T</p> <p>A 4 in. mesquite bears S. 28° 10' W. 22 lks. blazed and scribed 2 H E S 438 + B T</p> <p>A 4 in. mesquite bears N. 45° 00' W. 223 lks. blazed and scribed 5 H E S 439 + B T</p> <p>A 5 in. hackberry bears N. 20° 10' E. 190 lks. blazed and scribed 5 H E S 439 + B T</p>
	<p>Thence S. 15° 27' E.</p>
0.33	Superior-Florence wagon road bears NE. and SW.
1.27	Cor. fence. Fences bear NE. SW. and SSE. along line.
2.73	Cor. fence. Fence bears E. and along line.
8.83	To cor. No. 3. also cor. No. 2 of H. E. S. 437.
	<p>Identical with cor. H-3 of List 3-2202 which is a dacite stone 6 x 6 x 15 ins. above ground marked and witnessed as described by the Forest Service.</p> <p>I destroy cor. H-3 and its witnesses. At this point I previously established Cor. No. 2 of H. E. S. 437 which is a basalt stone 12 x 5 x 10 ins. above ground chiseled cross at the point and 2-H E S 437 on E. face with mound of stone 2 ft. base, 1½ ft. high, E. of cor. I chisel same stone 3 - H E S 438 on W. face for cor. No. 3 of this survey whence</p>
	<p>A 5 in. hackberry bears S. 56° 55' E. 149 lks. blazed and scribed 2 H E S 437 + B T</p> <p>A 6 in. ash bears N. 87° 20' E. 190 lks. blazed and scribed 2 H E S 437 + B T</p>

CROOK NATIONAL FOREST

STATE OF ARIZONA

Chains. A 4 in. mesquite bears S. 49° 40' W. 84 lks.
blazed and scribed 3 H E S 438 + B T

A 3 in. mesquite bears N. 44° 45' W. 49 lks.
blazed and scribed 3 H E S 438 + B T

Thence S. 43° 09' W.
Over bottom in undergrowth.

6.95 Cor. H-4 of List 3-2202 which is a porphyry stone
12 x 12 x 10 ins. above ground marked and witnessed
as described by the Forest Service. I destroy cor.
H-4 and its witnesses. Leave List No. 3-2202.
Enter unlisted land.

6.97 Cor. Fence. Fence bears NE. along line, and West.

8.22 Right bank Queen Creek, 2 ft. high, course SW. 150 lks.
wide.

10.88 Left bank Queen Creek, 12 ft. high, course SW.

12.64 Road bears E. and W.

12.72 To cor. No. 4.
Identical with cor. No. 1 H. E. S. No. 437 which is
a quartzite stone 10 x 5 x 10 ins. above ground
chiseled cross at the point and 1 - H E S 437 on
E. face with mound of stone 2 ft. base, 1½ ft. high
E. of cor. I chisel same stone 4 - H E S 438 on
N. face from which

- A 4 in. mesquite bears N. 28° 15' E. 185 lks.
blazed and scribed 4 H E S 438 - 1 H E S 437+B T

- A 6 in. mesquite bears N. 71° 05' E., 208 lks.
blazed and scribed 4 H E S 438 - 1 H E S 437+B T

Thence N. 54° 04' W.
Desc. brushy NW. slope 5 ft.

0.20 Road bears E. and W.

2.10 Left bank Queen Creek 12 ft. high, course W. Creek bed
120 lks. wide.

4.25 Right bank Queen Creek 2 ft. high, course W. Continue

CROOK NATIONAL FOREST

STATE OF ARIZONA

Chains

6.90

over brushy bottom.

To cor. No. 5.

Identical with cor. H-5 of List 3-2202 which is a dacite stone 6 x 6 x 4 ins. above ground marked and witnessed as described by the Forest Service. I destroy cor. H-5 and its witnesses; and for cor. No. 5 of this survey I chisel cross on a stone 4 x 4 x 4 ins. and deposit it 14 ins. in the ground over which I set a diorite stone 24 x 14 x 6 ins. 14 ins. in the ground chiseled cross at the point and 5 - H E S 438 on the NE. face and raise a mound of stone 2 ft. base, 1½ ft. high, NE. of cor. from which

A 15 in. sycamore bears N. 17° 40' E. 5 lks. blazed and scribed 5 H E S 438 + B T

A 10 ins. sycamore bears N. 68° 14' W. 133 lks. blazed and scribed 5 H E S 438 + B T

At this point pass from unlisted to listed land.

Thence N. 10° 34' W.

Over open bottom. Fence 3 lks. to right and parallel to line.

6.91

To cor. No. 1 the place of beginning.

Area.

Listed area..... 14.01 acres

Unlisted area..... 1.97 acres

Total area..... 15.98 acres.

Improvements.

A frame dwelling 18 x 18 ft. the long side extending E. and W. and the NE. cor. of which bears S. 24° 10' W. 3.78 chs. from cor. No. 2 of this survey.

Value.....\$ 150.00

A well 4 x 4 x 14 ft. deep the center of which bears

6.90
6.91
78.1
33.31
16.

CROOK NATIONAL FOREST

STATE OF ARIZONA

Chains S. 30° 28' W. 3.78 chs. from cor. No. 2 of this survey.

Value.....\$ 50.00

A well 4 x 4 x 16 ft. deep the center of which bears

S. 31° 28' W. 2.42 chs. from cor. No. 2 of this survey.

Value.....\$ 25.00

Approximately $\frac{3}{4}$ mile of wire fencing.

Value.....\$ 50.00

Approximately 8 acres of cultivated land.

Description.

This claim is situated on Queen Creek, a tributary to the Gila River, and is valuable for gardening.

The soil is a sandy loam and produces the ordinary crops of the temperate zone. Good garden vegetables and grain hay have been produced.

Sufficient water for all purposes flows in Queen Creek or is obtained from the wells.

The mountains to the north are mineralized but no townsites, coal, oil, or mining claims are known to conflict herewith.

Superior postoffice and railway station is 1 mile in a northeasterly direction.

This survey is joined on the north by H. E. S. No. 439 and on the East by H. E. S. 437.

Traverse.

Cor.	Course	Dist.	N.	S.	E.	W.
1-2	N. 62° 15' E.	14.92	6.95		13.20	
2-3	S. 15° 27' E.	8.83		8.51	2.35	
3-4	S. 43° 09' W.	12.72		9.28		8.70
4-5	N. 54° 04' W.	6.90	4.05			5.59
5-1	N. 10° 34' W.	6.91	6.79			1.27
		50.28	17.79	17.79	15.55	15.56
				17.79		15.55
				.00		.01

Error in lat. and dep.

Closing error 1:5028
Survey completed February 14, 1916.

Walter P. Turley
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 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. 438, STATE OF Arizona.

CORNERS.	BEARING.	DISTANCE.	LATITUDES.		DEPARTURES.		DOUBLE M. D.	N. AREAS.	S. AREAS.
			NORTH.	SOUTH.	EAST.	WEST.			
1-2	N. 62° 15' E.	14.22	6.95		13.20		13.21	91.81	
2-3	S. 15° 27' E.	8.83		8.51	2.35		28.77		244.83
3-4	S. 43° 09' W.	12.72		9.28		8.70	22.42		208.06
4-5	N. 54° 04' W.	6.20	4.05			5.59	8.13	32.93	
5-1	N. 10° 34' W.	6.91	6.79			1.27	1.27	8.62	
		50.28	17.79	17.79	15.55	15.56		133.36	452.89
			17.79		15.56			133.36	133.36
									319.53
									15.98 Acres.

85

EMH

APPROVAL


Office of the United States Surveyor General,

Phoenix, Arizona JUL 3 1917 , 191

The foregoing field notes of Homestead Entry Survey No.

438

executed by *Walter D. Turley, Surveyor* [Forest Service Title.]
under his special instructions, dated *Dec. 2*, 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.