

U. S. DEPARTMENT OF AGRICULTURE
FOREST SERVICE

FEB 3-1917

DEC 5-1917

442

FIELD NOTES

OF

HOMESTEAD ENTRY SURVEY NO. 442

SITUATED IN THE CROOK NATIONAL FOREST

ADMINISTRATIVE DISTRICT NO. 3

In Section 5 , unsurveyed, Township 1 N. , Range 15 E.

of the

Gila and Salt River Base and Meridian.

State of

ARIZONA

Applicant for listing R. J. Sheppard, ✓

Residence Miami, Arizona

Application No. 99 ✓ , dated April 26 , 1909 ✓

List No. 3-235 ✓ , dated July 24 , 1909 ✓

Applicant for survey Ralph A. Miller, ✓

Residence Miami, Arizona

H. E. No. 019401 ✓ , dated October 2 , 1912 ✓

Office
Land District Phoenix, Arizona

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

Under special instructions dated December 2 , 1915 ✓

Survey commenced March 4 , 1916

Survey completed March 4 , 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. **442**, 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 H. Beechey, Chairman
Fred D. Lewis, Chairman

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 **Patent**, No. **3-235**, dated **July 24**, 19**09**, for
June 11, 19**06**,
the same to be known as Homestead Entry Survey No. **442**,
situated within the **CROOK** National Forest, in
un surveyed Section **5**, Township **1 N.**, Range **15 E.**, and
-- surveyed Section **-----**, Township **-----**, Range **-----**,

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.

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

Subscribed and sworn to before me this *8th* day of
April, 19*16*

Elsie C. Myers
Notary Public



CROOK NATIONAL FOREST

STATE OF ARIZONA

Chains

Applicant for listing, R. J. Sheppard; Application No. 99, dated April 26, 1909; List No. 3-235, dated July 24, 1909; Homestead Entry No. 019401, made in the Phoenix Land Office on October 2, 1912 by Ralph A. Miller, whose post office address is Miami, Arizona. Surveyed under the 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. 442.

Situated in what will probably be, when surveyed, sec. 5, T. 1 N., R. 15 E., Gila and Salt River Base and Meridian, within the Crook National Forest, Arizona.

Survey commenced March 4, 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.

March 4, 1916.

I set up my transit over the point for the 1/4 sec. cor.

Chains to secs. 5 and 32, Ts. 1 and 2 N., R. 15 E., marked and witnessed as hereinafter described; and, with telescope direct, I observe Polaris in accordance with instructions at 7h. 10m. 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, Lat. $33^{\circ} 27' 48''$ N. and Long. $110^{\circ} 51' 15''$ W., from special instructions of the Surveyor General.

Astron. l.m.t. obsn., March 3, 1916, 19h. 10.0m.
 Astron. l.m.t. U. C. Pol., March 3, 1916, 2h. 43.5m.
 Hour angle Pol. at obsn., 16h. 26.5m.
 23h. 56.1m.
 Time argument, 7h. 29.6m.
 Azimuth Pol. at obsn., $1^{\circ} 15' 06''$ E.

With my transit set up over the point for the $1/4$ sec. cor. to secs. 5 and 32, Ts. 1 and 2 N., R. 15 E., hereinafter described, and with telescope reversed in altitude and azimuth, at 7h. 22m. 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., March 3, 1916, 19h. 22.0m.
 Astron. l.m.t. U.C. Pol., March 3, 1916, 2h. 43.5m.
 Hour Angle Pol. at obsn., 16h. 38.5m.
 23h. 56.1m.
 Time argument, 7h. 17.6m.
 Azimuth of Pol. at obsn., $1^{\circ} 16' 42''$ E.

March 4, 1916.

I turn off $1^{\circ} 15'$, the azimuth of Polaris, to the W. from its direction at 7h. 10m. a.m., l.m.t., March 4, 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 $1^{\circ} 16-1/2'$, the azimuth of Polaris to the W. from its direction at 7h. 22m. 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 $0^{\circ} 00' 42''$ of measured arc to the E. 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 $33^{\circ} 27' 48''$ N. and Longitude $110^{\circ} 51' 15''$ W. at cor. No. 1 of this survey, by account from values stated in the special instructions of the Surveyor General. It was not possible 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 23m. 25s. for l.m.t.

Observed Magnetic Declination at cor. No. 1 at 8h. 00m. a.m. is $14^{\circ} 50'$ E. Mean Mag. Declination, $14^{\circ} 47'$ E.

RETRACEMENT

The stone for the $1/4$ cor. on the north boundary Sec. 5, T. 1 N., R. 15 E. has been washed away by Pinal Creek. I restore $1/4$ cor. from call of the witness trees, as

Chains follows:

From a 28 in. cottonwood marked 1/4 S 32 B T, I run S. 17° 30' E., 39 lks., to point for 1/4 cor. At this point I drive an iron pipe 1 in. in dia., and 48 ins. long, 40 ins. in the ground, marked 1/4 on N. face. Thence West.

On a random line. Fall 2 lks. S. of C. C. for secs. 31 and 32, which is a quartzite stone 12 x 10 x 7 ins. above ground, chiseled 1 groove on W. face, 5 grooves on E. face and C C on N. face, with mound of stone 2 ft. base, 1-1/2 ft. high S. of cor.

39.76 Fall 2 lks. S. of the cor. to secs. 5 and 6, T. 1 N., R. 15 E., which is a trachyte stone 8 x 5 x 6 ins. above ground, marked and witnessed as described by the Surveyor General. Return course S. 89° 58' E.

SUBDIVISION SEC. 5.

Thence South.

On a random line from 1/4 cor. on N. bdy. sec. 5, T. 1 N., R. 15 E., heretofore described. Fall 51 lks. West of the 1/4 cor. to secs. 5 and 8, T. 1 N., R. 15 E., which is an embedded granite stone 24 x 12 x 6 ins. above ground, marked and witnessed as described by the Surveyor General.

Return course N. 0° 22' W.

BOUNDARIES OF CLAIM

Beginning at cor. No. 1. Identical with the 1/4 cor. on N. bdy. sec. 5, T. 1 N., R. 15 E., heretofore described. I adopt the 1/4 cor.

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CROOK MOUNT NATIONAL FOREST

STATE OF ARIZONA

Chains	<p>for cor. No. 1 of this survey, and alongside I drive a cedar stake scribed 1 - H E S 442; and raise a mound of stone 2 ft. base, 1-1/2 ft. high around cor., from which:</p> <p style="padding-left: 40px;">A 28 in. cottonwood bears N. 17° 30' W., 39 lks., blazed and scribed 1/4 S 32 B T. I add 1 H E S 442.</p> <p>No other bearings available. Pits impracticable.</p>
	<p>Thence S. 0° 22' E. Over sand bar.</p>
2.95	Globe - Phoenix wagon road bears NW. and SE.
3.50	Fence bears NW. and SE. Leave bottom and asc. N. slope 15 ft.
5.00	To cor. No. 2.
	<p>At which point I chisel (+) on a stone 4 x 3 x 2 ins., and deposit it 16 ins. in the ground; over which I set a quartzite stone 26 x 10 x 7 ins., 16 ins. in the ground; chiseled (+) at the point and 2 - H E S 442 on the NW. face; and raise a mound of stone 2 ft. base, 1-1/2 ft. high NW. of cor., from which:</p> <p style="padding-left: 40px;">A 5 in. catclaw bears S. 22° 30' W., 70 lks., blazed and scribed 2 H E S 442 + B T. Pits impracticable. No other witnesses available.</p>
	<p>Thence N. 89° 58' W. Desc. brushy NW. slope 10 ft.</p>
1.80	Cease descending and asc. NE. slope 15 ft.
4.60	Spur bears N. and S. Desc. NW. slope 15 ft.
7.85	Ravine, course N. Asc. E. slope 10 ft.

Chains
10.00

To cor. No. 3.

At which point I chisel (+) on a stone 4 x 4 x 3 ins., and deposit it 16 ins. in the ground; over which I set a quartzite stone 26 x 10 x 6 ins., 16 ins. in the ground; chiseled (+) at the point and 3 - H E S 442 on the NE. face; and raise a mound of stone 2 ft. base, 1-1/2 ft. high, NE. of cor., from which:

A 6 ins. cedar, bears S. 11° 22' W., 172 lks.,
blazed and scribed 3 H E S 442 + B T.

A 3 in. catclaw bears S. 60° 25' E., 62 lks.,
blazed and scribed 3 H E S 442 + B T.

Thence N. 0° 22' W.

Desc. open NE. slope 5 ft.

5.00 To cor. No. 4, and C. C. on line bet. secs. 5 and 32,
Ts. 1 and 2 N., R. 15 E.

At which point I chisel (+) on a stone 4 x 4 x 2 ins., and deposit it 15 ins. in the ground; over which I set a quartzite stone 25 x 9 x 8 ins., 15 ins. in the ground; chiseled (+) at the point, C C on the S. face, and 4 - H E S 442 on the SE. face; and raise a mound of stone 2 ft. base, 1-1/2 ft. high, S. of cor., from which:

A 5 in. catclaw bears S. 34° 52' E., 26 lks.,
blazed and scribed 4 H E S 442 + B T.

+ on an embedded basalt stone 30 x 20 x 10 ins.
above ground, bears N. 4° 52' W., 53 lks.,
chiseled + B R 4 H E S 442.

Cor. to secs. 5 and 6, heretofore described,
bears N. 89° 58' W., 29.75 chs.

1/4 cor. on N. bdy. sec. 5, heretofore de-

TRE CROOK MOUNT NATIONAL FOREST

STATE OF ARIZONA

Chains	described, bears S. 89° 58' E. 10.01 chs.	Chains
	Thence S. 89° 58' E. 30.00 chs. from cor. No. 1 of this survey.	
00.00	Along S. bdy. sec. 32, T. 2 N., R. 15 E.	
	Desc. open E. slope 10 ft. to	
3.40	Fence bears N. and S. Foot of slope bears N. and S.	
	Continue over cultivated land.	
6.80	Fence bears NW. and SE. Leave cultivated land.	
7.90	Globe -- Phoenix wagon road bears NW. and SE;	
10.01	To cor. No. 1, the place of beginning.	

AREA

Total Area - - - - - 5.00 acres

IMPROVEMENTS

A frame dwelling 32 x 14 ft., the long side extending NW. and SE. and the E. cor. of which bears S. 47° 33' W., 3.60 chs. from cor. No. 1 of this survey.

Estimated value ----- \$600.00

A cement store house, 14 x 12 ft., the long side extending NW. and SE. and the E. cor. of which bears S. 66° 32' W., 4.13 chs. from cor. No. 1 of this survey.

Estimated value ----- \$300.00

A well, 5 x 5 x 52 ft., and pump, the center of which bears S. 42° 05' W., 3.60 chs. from cor. No. 1 of this survey.

Estimated value ----- \$150.00

A 2 H.P. gasoline engine, the center of which bears S. 41° 45' W., 3.82 chs. from cor. No. 1 of this survey.

Estimated value ----- \$150.00

A cement shed, 14 x 12 ft., the long side extending N. and S. and the NW. cor. of which bears S. 49° 30' E., 4.99 chs. from cor. No. 4 of this survey.

Estimated value ----- \$ 40.00

Chains	<p>A frame stable 30 x 24 ft., the long side extending NW. and SE. and the W. cor. of which bears N. 58° 27' E., 3.02 chs. from cor. No. 3 of this survey.</p> <p>Estimated value ----- \$200.00</p> <p>A frame and cement chicken house, 90 x 20 ft., the long side extending NW. and SE. and the W. cor. of which bears S. 54° 50' E., 2.88 chs. from cor. No. 4 of this survey.</p> <p>Estimated value ----- \$750.00</p> <p>Approximately 3/8 mile of fencing.</p> <p>Estimated value ----- \$ 40.00</p> <p>Approximately 1 acre of cultivated land.</p>
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DESCRIPTION

This claim is situated on Pinal Creek, and is used for a chicken ranch.

There is no timber in this section.

Water is obtained from Pinal Creek and from the well.

The bottom soil is a sandy loam and produces the ordinary crops of the temperate zone. Good crops of fruit, strawberries and garden vegetables have been produced.

This section is mineralized, but no town sites, coal, oil or mining claims are known to have been located in conflict with this survey.

Globe post office and railway station is 7 miles by wagon road in a Southeasterly direction.

There are no conflicts. This survey is joined on the North by portion of claimant's H. E. No. 019401 embracing SE/4 SW/4, W/2 NE/4 SW/4 and W/2 E/2 NE/4 SW/4, sec. 32, T. 2 N., R. 15 E. There are no other adjoining claims known.

Estimated value ----- \$ 40.00

CROOK NATIONAL FOREST

STATE OF ARIZONA

Chains	TRAVERSE							
	Cor.	Course	Dist.	N	S	E	W	
1-2	S.	0° 22' E.	5.00		5.00	0.03		
2-3	N.	89° 58' W.	10.00	0.01			10.00	
3-4	N.	0° 22' W.	5.00	5.00			0.03	
4-1	S.	89° 58' E.	10.01		0.01	10.01		
			<u>30.01</u>	5.01	<u>5.01</u>	<u>10.04</u>	<u>10.03</u>	
					<u>5.01</u>	<u>10.03</u>		
					.00	.01		
Error in Lat. and Dep.								
Closing error, 1:3001.								
Survey completed March 4, 1916.								

Walter G. Turley
 Surveyor - Forest Service

Chains

Course	Dist.	Angle	Dist.	Angle	Dist.	Angle
1-2	8.00	89° 58'	8.00	89° 58'	8.00	89° 58'
2-3	10.00	89° 58'	10.00	89° 58'	10.00	89° 58'
3-4	8.00	89° 58'	8.00	89° 58'	8.00	89° 58'
4-1	10.01	89° 58'	10.01	89° 58'	10.01	89° 58'
<hr/>						
	10.04	89° 58'	10.04	89° 58'	10.04	89° 58'
	10.03	89° 58'	10.03	89° 58'	10.03	89° 58'
	10.01	89° 58'	10.01	89° 58'	10.01	89° 58'

Closing error, 1:3001.
Error in lat. and Dep.

Survey completed March 4, 1916.

[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 the G. L. O.

4. Only three copies of this tabulation are necessary, for the District Office, the Surveyor General, and the Commissioner.

TABLE AND CALCULATIONS OF HOMESTEAD ENTRY SURVEY NO. 442, STATE OF ~~Arizona~~ CRACK

CORNERS.	BEARING.	DISTANCE.	LATITUDES.		DEPARTURES.		DOUBLE M. D.	N. AREAS.	S. AREAS.
			NORTH.	SOUTH.	EAST.	WEST.			
1-2	S. 0° 22' E.	5.00		5 00	0 03		20 03		100 15 ✓
2-3	N. 89° 58' W.	10.00	0 01			10 00	10 06	0 10 ✓	
3-4	N. 0° 22' W.	5.00	5 00		0	0 03	0 03	0 15 ✓	
4-1	S. 89° 58' E.	10.01		0 01	10 01		10 00		0 10 ✓
		30.01	5 01	5 01	10 04	10 03		0 25	100 25
			5 01	5 01	10 03	10 03			0 25
									100 00
									5 00 ACRES.
Closing error, 1:3001									

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EMH

APPROVAL

Office of the United States Surveyor General,

Phoenix, Arizona JUL 3 1917 , 191

The foregoing field notes of Homestead Entry Survey No.

442

executed by *Walter G. 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.

Frank P. Trott

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.