

U. S. DEPARTMENT OF AGRICULTURE

FOREST SERVICE

MAR 2- 1917

404

FIELD NOTES

OF

HOMESTEAD ENTRY SURVEY NO. 404

SITUATED IN THE TONTO NATIONAL FOREST

ADMINISTRATIVE DISTRICT NO. 3

In Section 35 , unsurveyed, Township 5 N. , Range 13 E.

of the

Gila and Salt River Base and Meridian.

State of

ARIZONA

Applicant for listing Fred H. Armer, ✓

Residence Kirby, Arizona

Application No. 365 ✓ , dated September 3 , 1912 ✓

List No. 3-2519 ✓ , dated May 2 , 1913 ✓

Applicant for survey Fred H. Armer, ✓

Residence Kirby, Arizona

H. E. No. 025067 ✓ , dated May 8 , 1914 ✓

Office
Land District Phoenix, Arizona

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

Under special instructions dated September 23 , 1915 ✓

Survey commenced March 24 , 1916

Survey completed March 25 , 1916

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

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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. 404, 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. Baecht, Chairman
Ferry 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
September 23, 1915, 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. 3-2519[✓], dated **May 2**, 1913[✓], for
the same to be known as Homestead Entry Survey No. 404,
situated within the **TONTO** National Forest, in
unsurveyed Section 35, Township 5 N., Range 13 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*.

Clair C. Meyer
Notary Public



8-2349

TONTO NATIONAL FOREST

STATE OF ARIZONA

Chains Applicant for listing, Fred H. Armer; Application No. 365, dated September 3, 1912; List No. 3-2519, dated May 2, 1913; Homestead Entry No. 025067, made in the Phoenix Land Office on May 8, 1914 by Fred H. Armer, whose post office address is Kirby, Arizona.

Surveyed under Acts of June 11, 1906 and March 4, 1915, together with special instructions from the Surveyor General for Arizona, dated September 23, 1915, and designated as Homestead Entry Survey No. 404.

Situated in what will probably be, when surveyed, sec. 35, T. 5 N., R. 13 E., Gila and Salt River Base and Meridian, within the Tonto National Forest, Arizona.

Survey commenced March 24, 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 24, 1916.

Chains I set up my transit over cor. H-1 of List 3-2519, which is a basalt stone 10 x 4 x 5 ins. above ground, marked and witnessed as described by the Forest Service; and, with telescope direct, I observe Polaris in accordance with instructions at 5h. 35m. 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, in Lat. $33^{\circ} 43' 39''$ N., and Long. $110^{\circ} 58' 56''$ W., from special instructions from the Surveyor General.

Astron. l.m.t. obsn., March 24, 1916, 5h. 35.0m.
 Astron. l.m.t. U.C. Pol., March 24, 1916, 1h. 20.8m.
 Hour angle Pol. at obsn., 4h. 14.2m.
 Azimuth Pol. at obsn., $1^{\circ} 14' 06''$ W.

With my transit set up over cor. H-1 of List 3-2519, heretofore described, and with telescope reversed in altitude and azimuth, at 5h. 46m. p.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 24, 1916, 5h. 46.0m.
 Astron. l.m.t. U.C. Pol., March 24, 1916, 1h. 20.8m.
 Hour angle Pol. at obsn., 4h. 25.2m.
 Azimuth of Pol. at obsn., $1^{\circ} 15' 42''$ W.

March 25, 1916.

I turn off $1^{\circ} 14'$, the azimuth of Polaris, to the E. from its direction at 5h. 35m. p.m., l.m.t., March 24, 1916; and mark the line thus determined with a tack in a stake set firmly in the ground 5.00 chs. N. of my station.

TONTONATIONAL FOREST

STATE OF ARIZONA

Chains

I also turn off $1^{\circ} 15-1/2'$, the azimuth of Polaris, to the E. from its direction at 5h. 46m. p.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 $0^{\circ} 00' 18''$ 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 $33^{\circ} 43' 39''$ N., and Longitude $110^{\circ} 58' 56''$ W.

at cor. No. 1, by account from values stated in the special instructions of the Surveyor General. It was cloudy at apparent noon and a latitude observation was not possible.

My watch is set for standard 105th. meridian time, from which I subtract 23m. 56s. for l.m.t.

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

TIE

Thence N. $31^{\circ} 23'$ W.

On a true line by direct measurement from the Standard $1/4$ sec. cor. to sec. 35, T. 5 N., R. 13 E., which is a porphyry stone 16 x 14 x 6 ins. above ground, chiseled S C $1/4$ on N. face, with mound of stone, 2 ft. base, $1-1/2$ ft. high, N. of cor., from which:

A 7 in. palo verde bears S. $38^{\circ} 00'$ W., 40

lks., blazed and scribed S C $1/4$ S B T.

A 7 in. mesquit bears N. $54^{\circ} 00'$ E., 46 lks.,

Chains
21.47 To cor. No. 1. blazed and scribed S C 1/4 S B T.

Identical with cor. H-1 of List 3-2519, which is a basalt stone 10 x 4 x 5 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, I chisel (+) on a stone 4 x 4 x 3 ins. and deposit it 16 ins. in the ground; over which I set a diorite stone 26 x 12 x 8 ins., 16 ins. in the ground, chiseled (+) at the point and 1 - H E S 404 on the N. face; and raise a mound of stone 2 ft. base, 1-1/2 ft. high, N. of cor., from which:

A 5 in. mesquit bears S. 28° 00' W., 160 lks., blazed and scribed 1 H E S 404 + B T.

A 6 in. mesquit bears N. 51° 33' W., 97 lks., blazed and scribed 1 H E S 404 + B T.

Standard 1/4 sec. cor. to sec. 35, T. 5 N., R. 13 E., heretofore described, bears S. 31° 23' E., 21.47 chs.

Thence N. 70° 37' W.

Asc. brushy NE. slope, 5 ft.

1.50 Wire fence bears NE. and SW.; on ridge bears NNE. and SSW.
Desc. W. slope 15 ft.

9.80 Ranch road bears NE. and SW.

14.35 To cor. No. 2.

Identical with cor. H-4 of List 3-2519, which is a quartzite stone 6 x 4 x 3 ins. above ground, marked and witnessed as described by the Forest Service. I destroy cor. H-4 and its witnesses; and, for cor. No. 2 of this survey, I chisel (+) on a stone 4 x 4 x 2

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ins. and deposit it 18 ins. in the ground, over which
I set a quartzite stone 28 x 10 x 6 ins., 18 ins. in
the ground, chiseled (+) at the point and 2 - H E S 404
on the E. face; and raise a mound of stone 2 ft. base,
1-1/2 ft. high, E. of cor., from which:

A 13 in. mesquit bears N. 56° 10' W., 71 lks.,

blazed and scribed 2 H E S 404 + B T.

A 7 in. mesquit bears N. 23° 40' E., 71 lks.,

blazed and scribed 2 H E S 404 + B T.

Thence N. 39° 00' E.

Along brushy NW. slope.

2.50 Spring branch, 10 lks. wide, banks 4 ft. high, course

NW. Asc. S. slope 20 ft.

11.90 Ridge bears N. and S. Desc. NE. slope 5 ft.

12.85 Arroyo, 30 lks. wide, banks 10 ft. high, course SE.

Continue over bottom.

17.20 Wire fence bears NW. and SE.

17.81 To cor. No. 3.

Identical with cor. H-3 of List 3-2519, which is a

quartzite stone 18 x 12 x 8 ins. above ground, marked

and witnessed as described by the Forest Service. I

destroy cor. H-3 and its witnesses; and, for cor. No.

3 of this survey, I chisel (+) on a stone 4 x 4 x 2

ins. and deposit it 15 ins. in the ground, over which I

set a diorite stone 25 x 10 x 6 ins., 15 ins. in the

ground, chiseled (+) at the point and 3 - H E S 404 on

the S. face; and raise a mound of stone 2 ft. base,

1-1/2 ft. high, S. of cor., from which:

A 6 in. mesquit, bears S. 41° 50' E., 110 lks.,

Chains

blazed and scribed 3 H E S 404 + B.T.

A 6 in. mesquit bears S. 43° 20' W., 68 lks.,

blazed and scribed 3 H E S 404 + B T.

Thence S. 71° 28' E.

Asc. brushy W. slope, 15 ft.

7.93 To cor. No. 4.

Identical with cor. H-2 of List 3-2519, which is a limestone 8 x 4 x 3 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 15 ins. in the ground, over which I set a limestone 25 x 9 x 8 ins., 15 ins. in the ground, chiseled (+) at the point and 4 - H E S 404 on the SW. face; and raise a mound of stone 2 ft. base, 1-1/2 ft. high, SW. of cor., from which:

A 5 in. mesquit bears S. 5° 45' W., 79 lks.,

blazed and scribed 4 H E S 404 + B T.

A 7 in. mesquit bears N. 47° 18' W., 114 lks.,

blazed and scribed 4 H E S 404 + B T.

Thence S. 17° 55' W.

Desc. brushy SW. slope, 5 ft.

3.80 Ridge bears NE. and SW. Continue descending brushy SE. slope, 15 ft.

16.91 To cor. No. 1, the place of beginning.

AREA

Total Area --- 18.75 acres

TONTON NATIONAL FOREST

STATE OF ARIZONA

Chains

IMPROVEMENTS

A frame dwelling 40 x 28 ft., the long side extending NE. and SW. and the S. cor. of which bears N. 16° 35' W., 10.28 chs. from cor. No. 1 of this survey.

Estimated value ----- \$1600.00

A frame chicken house, 12 x 10 ft., the long side extending NE. and SW. and the S. cor. of which bears N. 12° 22' W., 8.55 chs. from cor. No. 1 of this survey.

Estimated value ----- \$ 40.00

Approximately 3/4 mile of wire fencing, the majority of which is on the outside of the claim.

Estimated value ----- \$ 75.00

Approximately 3 acres of cultivated land.

DESCRIPTION

This claim is situated on the upper end of the mesa at the foot of Baker Mountain. The drainage is South into Salt River.

There is no timber in this section.

There is a mud hole N. of the dwelling, from which sufficient water rises for domestic purposes and to irrigate a garden and small orchard planted out.

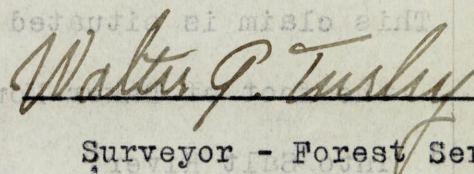
The soil is a dark loam and produces the ordinary crops of the temperate zone.

The mountains to the N. of this claim have been located for asbestos and the mesa to the South for oil, but no townsites, mining, coal or oil claims are known to conflict with this survey.

Kirby post office is 7 miles by wagon road in a Southerly direction, and Globe railway station is 26 miles beyond Kirby in a Southeasterly direction.

There are no known conflicts or adjoining claims.

Chains	Course	Dist.	N	S	E	W
1-2	N. 70° 37' W.	14.35	4.76			13.54 ✓
2-3	N. 39° 00' E.	17.81	13.84		11.21 ✓	
3-4	S. 71° 28' E.	7.93		2.52 ✓	7.52 ✓	
4-1	S. 17° 55' W.	16.91		16.09 ✓		5.20 ✓
		57.00	18.60	18.61	18.73	18.74
				18.60		18.73
Error in Lat. and Dep.				.01		.01
Closing error, 1:4031.						
Survey completed March 25, 1916.						


 Surveyor - Forest Service

DESCRIPTION

This claim is situated on the upper end of the mesa at the north end of the mountain. The drainage is southward. There is no timber in this section. There is a mud hole N. of the dwelling, from which sufficient water rises for domestic purposes and to irrigate a garden and small orchard planted out. The soil is a dark loam and produces the ordinary crops of the temperate zone. The mountains to the N. of this claim have been located for asbestos and the mesa to the South for oil, but no townships, mines, coal or oil claims are known to conflict with this survey. Kirby post office is 7 miles by wagon road in a southerly direction, and Globe railway station is 26 miles beyond Kirby in a southeasterly direction.

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.

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. 404, STATE OF ARIZONA, Tontoe

CORNERS.	BEARING.	DISTANCE.	LATITUDES.		DEPARTURES.		DOUBLE M. D.	N. AREAS.	S. AREAS.
			NORTH.	SOUTH.	EAST.	WEST.			
1-2	N. 70° 37' W.	14.35	4 76		11 21	13 54	13 54	64 45	
2-3	N. 39° 00' E.	17.81	13 84		7 52		11 22	155 40	
3-4	S. 71° 28' E.	7.93		2 52			29 96		75 50 ✓
4-1	S. 17° 55' W.	16.91		16 09		5 20	32 28		519 39 ✓
		57.00	18 60	18 61	18 73	18 74		219 85	594 89
			18 61	18 61	18 74	18 74			219 85
									375 04
									18 75 Acres.
Closing error, 1:4031									

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APPROVAL

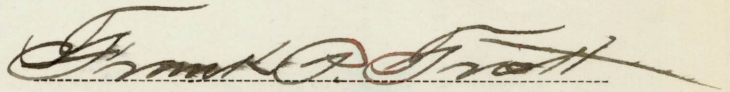
Office of the United States Surveyor General,

Phoenix, Arizona, June 19 , 1917.

The foregoing field notes of Homestead Entry Survey No.

404

executed by **Walter G. Turley, Surveyor-Forest Service**
[Forest Service Title.]
under his special instructions, dated **September 23, 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.