

U. S. DEPARTMENT OF AGRICULTURE

FOREST SERVICE

191

FEB 3-1917

447

FIELD NOTES

OF

HOMESTEAD ENTRY SURVEY NO. 447

SITUATED IN THE TONTO NATIONAL FOREST

ADMINISTRATIVE DISTRICT NO. 3

In Section 2 , unsurveyed, Township 3 N. , Range 13 E.

In Section 11 , unsurveyed, Township 3 N. , Range 13 E.

of the

Gila and Salt River Base and Meridian.

State of

ARIZONA

Applicant for listing Thomas A. Crow,

Residence Kirby, Arizona

Application No. 232 ✓ , dated March 11 , 19 09 ✓

List No. 3-209 ✓ , dated June 23 , 19 09 ✓

Applicant for survey Isaac Johnson,

Residence Kirby, Arizona

H. E. No. 017474 ✓ , dated May 3 , 1912 ✓

Office
Land District Phoenix, Arizona

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

Under special instructions dated February 7 , 19 16 ✓

Survey commenced March 1 , 1916

Survey completed March 1 , 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. 447, 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 G. Beechey, Chairman
Ferry D. Lewis, Chairman

Subscribed and sworn to before me this twenty eighth day of
March, 1916.

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
February 7, 1916, 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. 3-209, dated June 23, 1909, for
Patent, under the Act of June 11, 1906,
the same to be known as Homestead Entry Survey No. 447,
situated within the TONTO National Forest, in
unsurveyed Section 2, Township 3 N., Range 13 E., and
unsurveyed Section 11, Township 3 N., Range 13 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.

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

Subscribed and sworn to before me this 8th day of

April, 1916

Elsie C. Myers
Notary Public



8-2349

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TONTO NATIONAL FOREST

STATE OF ARIZONA

Chains Applicant for listing, Thomas A. Crow; Application No. 232, dated March 11, 1909; List No. 3-209, dated June 23, 1909; Homestead Entry No. 017474, made in the Phoenix Land Office on May 3, 1912 by Isaac Johnson, 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 February 7, 1916, and designated as Homestead Entry Survey No. 447. Situated in what will probably be, when surveyed, secs. 2 and 11, T. 3 N., R. 13 E., Gila and Salt River Base and Meridian, within the Tonto National Forest, Arizona.

Survey commenced March 1, 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 1, 1916.

I set up my transit over cor. H-1 of List 3-209, which is a granite stone 6 x 6 x 5 ins. above ground, marked and witnessed as described by the Forest Service; and, with telescope direct, I observe Polaris in accordance

Chains 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, in Lat. $33^{\circ} 37' 58''$ N. and Long. $110^{\circ} 59' 58''$ W., from special instructions from the Surveyor General.

Astron. l.m.t. obsn., Feb. 29, 1916, 19h. 10.0m.
 Astron. l.m.t. U.C. Pol., Feb. 29, 1916, 2h. 55.3m.
 Hour angle, Pol. at obsn., 16h. 14.7m.
 23h. 56.1m.
 Time argument, 7h. 41.4m.
 Azimuth. Pol. at obsn., $1^{\circ} 13' 24''$ E.

With my transit set up over cor. H-1 of List 3-209, heretofore 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., Feb. 29, 1916, 19h. 22.0m.
 Astron. l.m.t. U.C. Pol., Feb. 29, 1916, 2h. 55.3m.
 Hour angle Pol. at obsn., 16h. 26.7m.
 23h. 56.1m.
 Time argument, 7h. 29.4m.
 Azimuth of Pol. at obsn., $1^{\circ} 15' 12''$ E.

March 1, 1916.

I turn off $1^{\circ} 13-1/2'$, the azimuth of Polaris, to the W. from its direction at 7h. 10m. a.m., l.m.t., March 1, 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.

I also turn off $1^{\circ} 15'$, 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

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Chains firmly in the ground 5.00 chs. N. of my station. This line falls $0^{\circ} 00' 22''$ 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 $33^{\circ} 37' 58''$ N. and Longitude $111^{\circ} 00' 00''$ W.

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

My watch is set for standard 105th. meridian time, from which I subtract 24m. 00s. for l.m.t.

Observed magnetic declination at cor. No. 1 at 9h. 00m. a.m., is $14^{\circ} 45'$ E. Mean magnetic declination, $14^{\circ} 42'$ E.

RETRACEMENT

March 1, 1916.

Thence West.

On a random line from the 1/4 sec. cor. to secs. 2 and 35, Ts. 3 and 4 N., R. 13 E., which is a quartzite stone 7 x 5 x 5 ins. above ground, chiseled 1/4 on N. face, with mound of stone 2 ft. base, 1-1/2 ft. high, N. of cor., from which:

A 5 in. mesquit bears N. $68^{\circ} 43'$ E., 323 lks., blazed, but I could not detect scribing.

A 7 in. mesquit stump bears S. $70^{\circ} 55'$ E., 307

Chains 20.00 lks. This stump has been cut a few inches above ground and no blaze could be detected. This cor. was established in 1881, and all evidence found in this vicinity substantiates the fact that this is the original corner.

40.00 No cor. found. This point falls in a mesquit flat near the school house, and most of the older trees have been cut for wood.

TIE

Thence S. 33° 20' W.

On a true line by direct measurement from 1/4 cor. bet. secs. 2 and 35, above described, for a tie.

28.88 To cor. No. 1.

At which point I chisel (+) on a stone 4 x 4 x 3 ins., and deposit it 18 ins. in the ground; over which I set a diorite stone 28 x 15 x 6 ins., 18 ins. in the ground; chiseled (+) at the point and 1 - H E S 447 on the SW. face; and raise a mound of stone 2 ft. base, 1-1/2 ft. high, SW. of cor., from which:

+ on an embedded diorite stone 32 x 28 x 15 ins.

above ground, bears N. 75° 35' E., 222 lks.,

chiseled + B R 1 H E S 447

A 4 in. catclaw bears N. 11° 18' W., 239 lks.,

blazed and scribed 1 H E S 447 + B T.

1/4 sec. cor. to secs. 2 and 35, heretofore de-

scribed, bears N. 33° 20' E., 28.88 chs.

Cor. H-1 of List 3-209, which is a granite

stone 6 x 6 x 5 ins. above ground, marked and

witnessed as described by the Forest Service,

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Chains . . . bears S. 89° 33' E., 1.65 chs. I destroy
 cor. H-1 and its witnesses.
 Thence S. 1° 20' E.
 Asc. open bottom, 10 ft.
 39.96 Left bank Pinto Creek, 6 ft. high, course NNE. Enter
 creek, approximately 8.00 chs. wide.
 59.15 Left bank Pinto Creek, 6 ft. high, course NNW. Continue
 over brushy bottom.
 79.25 Fence cor., from which fence bears N. and W.
 79.27 To cor. No. 2.
 Identical with cor. H-2 of List 3-209 and H-4 of List
 3-203, H. E. 029824, Chas. E. Steward, which is a
 granite stone 10 x 10 x 6 ins. above ground, marked
 and witnessed as described by the Forest Service. I
 destroy cor. H-2 and its witnesses; and, for cor. No.
 2 of this survey, I chisel (+) on a stone 4 x 4 x 3 ins.
 and deposit it 15 ins. in the ground; over which I set
 a diorite stone 25 x 8 x 7 ins., 15 ins. in the ground,
 chiseled (+) at the point and 2 - H E S 447 on the NW.
 face; and raise a mound of stone 2 ft. base, 1-1/2 ft.
 high, NW. of cor., from which:
 A 6 in. catclaw bears N. 33° 02' W., 76 lks.
 blazed and scribed 2 H E S 447 + BT.
 A 6 in. catclaw bears S. 33° 18' W., 17 lks.,
 blazed and scribed 2 H E S 447 + B T.
 Thence N. 89° 08' W.
 Asc. brushy bottom, 5 ft. Wire fence, 1 lk. N., runs
 parallel with line.
 25.90 To cor. No. 3.
 Identical with cor. H-3 of List 3-209 and H-1 of List

Chains 3-203, which is a mesquit stake, 12 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 3 ins. and deposit it 15 ins. in the ground, over which I set a diorite stone 25 x 12 x 6 ins., 15 ins. in the ground, chiseled (+) at the point and 3 - H E S 447 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 in. mesquit bears N. 80° 14' E., 101 lks.,

blazed and scribed 3 H E S 447 + B T.

A 7 in. mesquit, bears S. 5° 26' E., 82 lks.,

blazed and scribed 3 H E S 447 + B T.

Thence N. 6° 54' E.

Over brushy bottom.

23.80 Campaign Creek bed, 6.75 chs. wide, banks 3 ft. high,

course E. Asc. SE. slope 5 ft.

33.72 Road bears NE. and SW.

51.75 Desc. NW. slope, 15 ft.

55.85 Ravine, course NE. Asc. E. slope, 10 ft.

64.05 Spur bears NE. and SW. Desc. N. Slope 10 ft.

69.25 Road bears NNW. and SSE. Foot of hill bears E. and W.

Desc. brushy bottom 5 ft.

70.16 Wire fence bears NNW. and SSE.

79.60 To cor. No. 4.

Identical with cor. H-4 of List 3-209, which is a gneiss stone 12 x 6 x 6 ins. above ground, marked and witnessed as described by the Forest Service. I destroy cor. H-4 and its witnesses; and, for cor. No. 4 of this survey, I chisel (+) on a stone 4 x 4 x 3 ins. and deposit it 14 ins. in the ground, over which I set

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Chains a diorite stone 24 x 14 x 4 ins., 14-ins. in the ground, chiseled (+) at the point and 4 - H E S 447 on the SE. face; and dig pits 24 x 24 x 12 ins. crosswise on this and the succeeding course 3-1/2 ft. dist.; and raise a mound of earth, 4 ft. base, and 2 ft. high, SE. of cor. from which:

A 4 in. catclaw bears S. 27° 10' E., 64 lks., blazed and scribed 4 H E S 447 + B T.

A 4 in. mesquit bears N. 36° 55' E., 50 lks., blazed and scribed 4 H E S 447 + B T.

Thence S. 89° 33' E.

Over brushy bottom.

8.40 Enter cultivated land, bears N. and S.

14.48 Leave cultivated land, bears N. and S.

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

AREA

Total Area - - - - - 159.95 acres

IMPROVEMENTS

A frame dwelling, 28 x 18 ft., the long side extending N. and S. and the NE. cor. of which bears S. 6° 05' W., 43.70 chs. from cor. No. 1 of this survey.

Estimated value ----- \$1000.00

A frame stable, 30 x 24 ft., the long side extending N. and S. and the NE. cor. of which bears S. 6° 40' W., 44.83 chs. from cor. No. 1 of this survey.

Estimated value ----- \$ 300.00

Approximately 3 miles of wire fencing, partly on outside

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Chains of claim. Estimated value ----- \$300.00

Approximately 32 acres of cultivated land.

DESCRIPTION

This claim is situated on Pinto Creek, a tributary to Salt River, and is chiefly valuable for general farming and stock raising.

There is no timber in this section.

Sufficient water for all purposes is obtained from Pinto Creek.

The bottom soil is a sandy loam, and produces the ordinary crops of the temperate zone; with irrigation. Good crops of barley hay are raised without irrigation.

This section is not known to be mineralized. No town-sites, mining, coal or oil claims are known to have been located in conflict herewith.

Kirby post office is 3/4 mile in a Southerly direction.

Globe railway station is 26 miles by wagon road in a Southeasterly direction.

There are no conflicts. List No. 3-203 adjoins this survey on the South and H E S 70 lies about 1/2 mile southeast of this claim.

TRAVERSE

Cor.	Course	Dist.	N	S	E	W
1-2	S. 1° 20' E.	79.27		79.25	1.84	
2-3	N. 89° 08' W.	25.90	0.39			25.90
3-4	N. 6° 54' E.	79.60	79.02		9.56	
4-1	S. 89° 33' E.	14.50		0.11	14.50	
		199.27	79.41	79.36	25.90	25.90
			79.36		25.90	

Error in Lat. and Dep. .05 .00

Closing error, 1:3985.

Survey completed March 1, 1916.

Walter J. 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 footing of the original figures, but put below them the corrected footing in red ink. 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. 447, STATE OF ARIZONA, Tonto.

CORNERS.	BEARING.	DISTANCE.	LATITUDES.		DEPARTURES.		DOUBLE M. D.	N. AREAS.		S. AREAS.	
			NORTH.	SOUTH.	EAST.	WEST.					
1-2	S. 1° 20' E.	79.27		79 25 ⁷	1 84		49 96			3260 33	
2-3	N. 89° 08' W.	25.90	0 39 ⁸			25 90	25 90	9 84	9 84		
3-4	N. 6° 54' E.	79.60	79 02		9 56		9 56	755 24	755 24		
4-1	S. 89° 33' E.	14.50		0 11	14 50		33 62			3 70	
		199.27	79 41	79 36	25 90	25 90		765 08	765 08	3964 03	
			79 38	79 38	25 90	25 90				765 08	
										3198 95	
										159 95	
	Closing error, 1:3985										

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EMH

APPROVAL

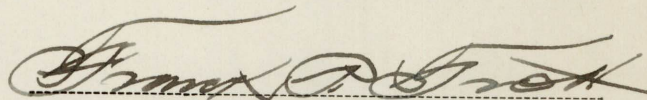
Office of the United States Surveyor General,

Phoenix, Arizona, June 19 , 1917.

The foregoing field notes of Homestead Entry Survey No.

447

executed by **Walter G. Turley, Surveyor-Forest Service**
under his special instructions, dated **February 7** , 191**6**, 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.