

85 E.M.H

U. S. DEPARTMENT OF AGRICULTURE
FOREST SERVICE

JUN 2 - 1916

FIELD NOTES

OF

HOMESTEAD ENTRY SURVEY NO. 316

SITUATED IN THE

-----TONTO----- NATIONAL FOREST

ADMINISTRATIVE DISTRICT NO. 3

in

Section 2, unsurveyed, Township 7 N., Range 6 E.

of the

Gila and Salt River Base and Meridian.

ARIZONA

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

Under special instructions dated January 23, 1915 ✓

Survey commenced January 29, 1915

Survey completed January 30, 1915

Under Acts of June 11, 1906 and June 30, 1914. ✓

Applicant for listing Henry Wallpert.

Residence Phoenix, Arizona.

Application No. 565, dated March 6, 1913

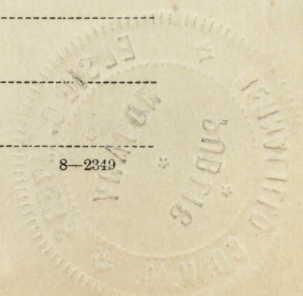
List No. _____, dated _____, 19____

Applicant for survey Henry Wallpert.

Residence Phoenix, Arizona

H. E. No. _____, dated _____

Land district Phoenix, Arizona



OATH OF ASSISTANTS

We hereby certify that we assisted Walter G. Turley,
Surveyor - Forest Service in surveying all those
parts or portions of Homestead Entry Survey No. 316, in
unsurveyed Section 2, Township 7 N., Range 6 E.,
unsurveyed Section - - -, Township - - -, Range - - -,

of the G. & S.R.B. Meridian, State of Arizona, which
are represented in the following field notes as having been
surveyed by him and under his direction; and that said sur-
vey has been in all respects, to the best of our knowledge
and belief, well and faithfully surveyed, and the corner
monuments established, according to the instructions fur-
nished 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.

A. M. Statton Chairman
Francisco Lopez Chairman

Subscribed and sworn to before me this 10th day of
February, 1915.

Walter G. Turley
Surveyor - Forest Service

OATH OF SURVEYOR

I, Walter G. Turley, Surveyor - Forest Service, do solemnly swear
that, in strict conformity with the special instructions of
the United States Surveyor General for Arizona, dated
January 23, 1915, and the laws of the United States, I have
well, faithfully, and truly, in my own proper person, sur-
veyed a tract of land upon the application of Henry Wallpert,
Application, No. 565, dated March 6, 1915, for
Patent, under the Act of June 11, 1906,
the same to be known as Homestead Entry Survey No. 316,
situated within the TONTO National Forest, in
unsurveyed Section 2, Township 7 N., Range 6 E., and
unsurveyed Section - - -, Township - - -, Range - - -,

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 perpet-
uated in strict accordance with the stated special instruc-
tions, 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

Subscribed and sworn to before me this 23^d day of
February, 1915.

Elsie C. Myers
Notary Public



TONTONATIONAL FOREST

STATE OF ARIZONA

Chains Applicant for listing, Henry Wallpert; Application No. 565; dated March 6; 1913.

Surveyed under special instructions from the Surveyor General for Arizona, dated January 23, 1915, and designated as Homestead Entry Survey No. 316.

Situated in what will probably be, when surveyed, sec. 2, T. 7 N., R. 6 E., Gila and Salt River Base and Meridian, within the Tonto National Forest, Arizona.

Surveyed under Acts of June 11, 1906 and June 30, 1914 under the cooperative plan, as a basis for listing and patent.

Survey commenced January 29, 1915, 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 to 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. The stadia wire interval is adjusted to read 1:132.

All distances are horizontal; and were reduced from measurements made directly on the slope with a standard 500 link steel tape graduated to links and tenths; and the slope angles determined with a clinometer, the vernier of which reads to degrees; and a Philadelphia stadia rod, graduated to feet and hundredths, provided with two targets the verniers of which read to thousandths of a foot.

Chains January 29, 1915.

I set up my transit over cor. No. 5 of H. E. S. No. 312, which is a quartzite stone 12 x 5 x 10 ins. above ground marked and witnessed as hereinafter described, and, with telescope direct, I observe Polaris in accordance with instructions at 7h. 50m. 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. $33^{\circ} 58' 57''$ N. and Long. $111^{\circ} 42' 25''$ W.

Astron. l.m.t. obsn., January 29, 1915,	7h. 50.0m.
Astron. l.m.t. U.C.Pol., Jan. 29, 1915,	<u>4h. 56.1m.</u>
Hour angle Pol. at obsn.	2h. 53.9m.

Azimuth Pol. at obsn., $0^{\circ} 57' 30''$ W.

With my transit set up over cor. No. 5 of H. E. S. No. 312, heretofore described, and the telescope reversed in altitude and azimuth, at 8h. 02m. 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., January 29, 1915,	8h. 02.0m.
Astron. l.m.t. U.C. Pol., Jan. 29, 1915,	<u>4h. 56.1m.</u>
Hour angle Pol. at obsn.	3h. 05.9m.

Azimuth of Pol. at obsn., $1^{\circ} 00' 24''$ W.

January 29, 1915.

January 30, 1915.

I turn off $0^{\circ} 57\text{-}1/2'$, the azimuth of Polaris, to the E. from its direction at 7h. 50m. p.m., l.m.t., January 29, 1915; and mark the line thus determined with a tack in a stake set firmly in the ground 5.00 chs. N. of my station.

TONTON NATIONAL FOREST

STATE OF ARIZONA

Chains

I also turn off $1^{\circ} 00' - 1/2'$, the azimuth of Polaris, to the E. from its direction at 8h. 02m. 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 $0^{\circ} 00' 20''$ 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.

Observed latitude January 28, 1915, cor. No. 1, H. E. S. 312, $33^{\circ} 59'$ N., which reduced gives Latitude $33^{\circ} 58' 57''$ N. at cor. No. 1 of this survey. It was not practicable to check the latitude by direct observation on January 29, 1915.

Long. $111^{\circ} 42' 25''$ W., from special instructions of Surveyor General.

My watch is set for standard 105th. meridian time, from which I subtract 26m. 48s. for l.m.t.

Observed magnetic declination January 29, 1915 at 8h. 00m. a.m., l.m.t., at cor. No. 1 of this survey, $14^{\circ} 30'$ E., which reduced gives a mean magnetic declination of $14^{\circ} 29'$ E.

There being no corner of the public land surveys within two miles of this claim, I therefore tie this survey to U. S. L. M. No. 312 H. E. S., located upon a high butte approximately one mile North of the confluence of Davenport Arroyo with the Verde river, and is an embedded basalt stone 5 x 5 x 4 ft. above ground, chiseled + at the point and U S L M No 312 H E S on the

Chains NW. face, with mound of stone 6 ft. base, 4 ft. high

East of cor., from which:

E. end of proposed dam for Horseshoe Reservoir

bears N. 69° 30' W., approximately 1 mile.

Mt. Buford bears S. 52° 00' W., approximately

6-1/2 miles.

Mesa Mt. (Black Mt.) bears N. 51° 12' E.,

approximately 4-1/2 miles.

Davenport Butte bears N. 66° 30' E., approx-

imately 7 miles.

E. end of Cedar Mt. bears N. 34° 00' W.,

approximately 7-1/2 miles.

Mazatzal Peak bears N. 70° 45' E., approxi-

mately 15 miles.

Saddle Mt. bears S. 82° 08' E., approximately

10-1/2 miles.

Mouth of Lime Creek bears N. 67° 00' W.,

approximately 1-1/2 miles.

Mouth of Sycamore Creek bears N. 4° 30' W.,

approximately 5-1/2 miles.

Cor. No. 1 of H. E. S. 312, a quartzite stone

9 x 5 x 10 ins. above ground, chiseled + on

top and 1 - H E S 312 on SW. face, with mound

of stone 2 ft. base, 1-1/2 ft. high, SW. of

cor., bears S. 12° 45' W., 45.22 chs.

Cor. No. 1, H. E. S. 316, hereinafter described,

bears S. 55° 03' W., 86.23 chs.

Thence S. 55° 03' W.

86.23 To cor. No. 1.

Identical with cor. No. 5 H. E. S. No. 312, which is

a quartzite stone 12 x 5 x 10 ins. above ground, chis-

eled + at the point and 5 - H E S 312 on the SE. face,

TONTON NATIONAL FOREST

STATE OF ARIZONA

Chains

with mound of stone 2 ft. base, 1-1/2 ft. high SE. of cor. I chisel 1 - H E S 316 on the SW. face of the corner stone, from which:

A 7 in. mesquit, blazed and scribed 5 H E S 312 + B T, bears S. 87° 35' E., 101 lks.

A 5 in. mesquit, blazed and scribed 5 H E S 312 and 1 H E S 316 + B T, bears S. 31° 25' E., 127 lks.

A 7 in. mesquit, blazed and scribed 1 H E S 316 + B T, bears N. 32° 45' W., 18 lks.

U. S. L. M. No. 312 H. E. S., heretofore described, bears N. 55° 03' E., 86.23 chs.

Thence S. 9° 41' E.

Descend 5 ft. along line 5-4 of H. E. S. 312 in undergrowth.

0.79 Cor. fence; fence bears E., W. and S. 9° 41' E.

5.73 Left bank old ditch, 23 lks. wide, banks 3 ft. high, course E.

6.15 Cor. wire fence; fence bears E., W. and N. 9° 41' W. and S. 9° 41' E.

21.43 Cor. wire fence; fence bears N. 9° 41' W., S. 9° 41' E. and E.

24.49 Cor. wire fence; fence bears E., W. and N. 9° 41' W.

25.59 Road, bears E. and W.

26.15 To cor. No. 2.

Identical with cor. No. 4 of H. E. S. 312, which is a quartzite stone 17 x 10 x 10 ins. above ground, chiseled + at the point and 4 - H E S 312 on the NE. face, with a mound of stone 2 ft. base, 1-1/2 ft. high, NE. of cor. I chisel 2 - H E S 316 on the NW. face of the corner stone, from which:

Chains	<p>A 7 in. mesquit, blazed and scribed 2 H E S 316 + B T, bears S. 80° 20' W., 75 lks.</p> <p>A 7 in. mesquit, blazed and scribed 2 H E S 316 + B T, bears N. 68° 30' W., 89 lks.</p> <p>A 15 in. mesquit, blazed and scribed 4 H E S 312 + B T, bears N. 48° 25' E., 24 lks.</p> <p>A 14 in. mesquit, blazed and scribed 4 H E S 312 + B T, bears N. 4° 40' E., 13 lks.</p>
	<p>Thence N. 86° 19' W.</p> <p>Over bottom in undergrowth.</p>
24.50	Road, bears NE. and SW.
25.34	To cor. No. 3.
	<p>At which point I chisel (+) on a stone 4 x 3 x 2 ins. and deposit it 18 ins. in the ground; over which I set a quartzite stone 28 x 10 x 7 ins., 18 ins. in the ground; chiseled (+) at the point and 3 - H E S 316 on the NE. face; and raise a mound of stone 2 ft. base, 1-1/2 ft. high, NE. of cor., from which:</p> <p>A 10 in. mesquit, blazed and scribed 3 H E S 316 + B T, bears S. 72° 50' E., 72 lks.</p> <p>A 16 in. sycamore, blazed and scribed 3 H E S 316 + B T, bears N. 13° 15' E., 70 lks.</p>
	<p>Thence N. 7° 28' W.</p> <p>Asc. bottom 5 ft. in undergrowth.</p>
1.20	Cor. wire fence; fence bears E., W. and N. 7° 28' W.
9.46	Cor. wire fence; fence bears N. 7° 28' W., S. 7° 28' E. and W.
9.60	Right bank old ditch, 23 lks. wide, banks 3 ft. high, course E.
15.80	Cor. wire fence; fence bears S. 7° 28' E. and E.
15.97	To cor. No. 4.

TONTO NATIONAL FOREST

STATE OF ARIZONA

Chains

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 14 x 14 ins., 16 ins. in the ground; -chiseled-(+)- at the point and 4 - H E S 316 on the SE. face; and raise a mound of stone 2 ft. base, 1-1/2 ft. high, SE. of cor., from which:

A 10 in. mesquit, blazed and scribed 4 H E S 316 + B T, bears S. 21° 30' E., 187 lks.

A 7 in. mesquit, blazed and scribed 4 H E S 316 + B T, bears S. 75° 45' W., 150 lks.

Thence N. 70° 03' E.

Over bottom in undergrowth.

- 7.20 Wire fence, bears N. 60° E. and S. 60° W.
- 9.45 Wire fence, bears N. and S. Enter cultivated land.
- 14.90 Wire fence, bears N. and S. Leave cultivated land.
- 22.65 Wire fence, bears NW. and SE.
- 24.39 To cor. No. 1, the place of beginning.

AREA

Total Area - - - - - 51.25 acres

IMPROVEMENTS

A well, 4 x 4 x 30 ft., the center of which bears S. 22° 15' W., 11.20 chs. from cor. No. 1 of this survey.

Estimated Value ----- \$100.00

A frame hay shed 40 x 25 ft., the long side extending E. and W. and the NE. cor. of which bears S. 16° 40' W., 9.40 chs. from cor. No. 1 of this survey.

Estimated Value ----- \$ 75.00

A frame dwelling 30 x 20 ft., the long side extending E. and W. and the NE. cor. of which bears S. 23° 20' W., 11.50 chs. from cor. No. 1 of this survey.

HOMESTEAD ENTRY SURVEY NO. 316

TONTO NATIONAL FOREST

STATE OF ARIZONA

Chains Estimated Value ----- \$250.00

Approximately 12 acres of cultivated land.

Approximately 1-1/2 miles of wire fencing.

Estimated Value ----- \$175.00

DESCRIPTION

This claim is situated on the E. side of the Verde River at an elevation of approximately 2600 ft. and is chiefly valuable for general farming and stock raising. There is no timber in the section. The undergrowth is mesquit, with a few sycamore trees.

Sufficient water for all purposes can be obtained from the Verde River. Water for domestic purposes is obtained from the well.

The soil is a deep sandy and clay loam and produces the ordinary crops of the temperate zone with irrigation. Good crops of small grains, corn and garden truck have been raised.

This not reported to be a mineralized section and no townsites, coal, oil or mining claims are known to have been located in this vicinity.

Phoenix post office and railway station is 50 miles by wagon road in a southwesterly direction.

There are no conflicts. H. E. S. No. 312 adjoins this survey on the East, line 4-5 thereof being identical with line 1 to 2 of this survey.

Only the improved land was included in this survey.

TONTO NATIONAL FOREST

STATE OF ARIZONA

Chains

TRAVERSE

Cor.	Course	Dist.	N	S	E	W
1-2	S. 9° 41' E.	26.15		25.78 ✓	4.40 ✓	
2-3	N. 86° 19' W.	25.34	1.63 ✓			25.29 ✓
3-4	N. 7° 28' W.	15.97	15.83 ✓			2.08 ✓
4-1	N. 70° 03' E.	24.39	8.32		22.93	
			91.85	25.78	25.78	27.33
					<u>25.78</u>	<u>27.33</u>

Error in Lat. and Dep. .00 .04

Closing error 1:2296. ✓

Survey completed January 30, 1915.

Walter G. Turley

Surveyor - Forest Service

96

HOMESTEAD ENTRY SURVEY NO. 101

NATIONAL FOREST

STATE OF ARIZONA

Chains

TRAVELERS

Chains

W	S	E	N	Dist.	Course	Cor.
	4.40	22.78		22.12	S. 92° 41' W.	1-2
22.22			1.22	22.84	N. 86° 12' W.	2-3
20.8			12.83	12.97	N. 7° 28' W.	3-4
	22.22		22.22	22.22	N. 70° 02' E.	4-1

27.27	27.22	22.78	22.78	21.62		
27.22		22.78				

Error in lat. and dep. 00.
Closing error 1:2222.
Survey completed January 30, 1912.

[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.

TABLING AND CALCULATIONS OF HOMESTEAD ENTRY SURVEY NO. 316, STATE OF Arizona

CORNERS.	BEARING.	DISTANCE.	LATITUDES.		DEPARTURES.		DOUBLE M. D.	N. AREAS.	S. AREAS.
			NORTH.	SOUTH.	EAST.	WEST.			
1-2	S. 9° 41' E.	26.15		25 78	4 40	8	50 29	1296.48	✓
2-3	N. 86° 19' W.	25.34	1 63		25 29		29 42	47 95	
3-4	N. 7° 28' W.	15.97	15 83		2 08		2 07	32 77	✓
4-1	N. 70° 03' E.	24.39	8 32		22 93		22 94	190 86	✓
		91.85	25 78	25 78	27 33	27 37		271 58	
			25 78	25 78	27 35	27 35		271 58	
							1024 90		
								51 25	acres.

Closing error 1:2296

97

EMH

APPROVAL

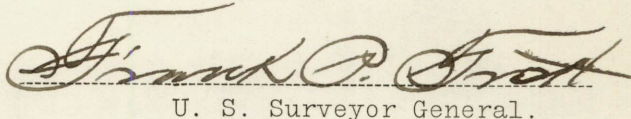
Office of the United States Surveyor General,

Phoenix, Arizona, May 4, 1917

The foregoing field notes of Homestead Entry Survey No.

316

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