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JUN 5-1917

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U. S. DEPARTMENT OF AGRICULTURE
FOREST SERVICE

FIELD NOTES

OF

HOMESTEAD ENTRY SURVEY NO. **333**

SITUATED IN THE **TONTO** NATIONAL FOREST

ADMINISTRATIVE DISTRICT NO. **3**

In Section **30** , un surveyed, Township **11 N.** , Range **7 E.**

of the

Gila and Salt River Base and Meridian.

State of

Arizona.

Applicant for listing **Arthur Heath**

Residence **Prescott, Arizona.**

Application No. **522** , dated **September 14** , 19 **14**

List No. , dated , 19

Applicant for survey **Arthur Heath**

Residence **Prescott, Arizona.**

H. E. No. , dated , 19

Land District **Phoenix, Arizona.**

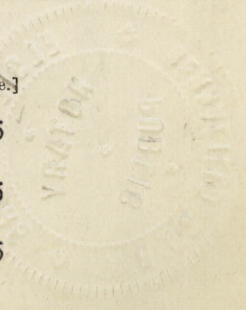
Survey executed by **R. P. A. Johnson, Surveyor Draftsman.**
[Forest Service Title.]

Under special instructions dated **February 11** , 19 **15**

Survey commenced **April 25** , 19 **15**

Survey completed **April 26** , 19 **15**

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



OATH OF ASSISTANTS

We hereby certify that we assisted **R. P. A. Johnson, Surveyor Draftsman** in surveying all those
[Forest Service Title.]

parts or portions of Homestead Entry Survey No. **333**, 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 established, 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 oaths to assistants; hence, they were taken by the Surveyor.

Charles D. Johnson Chairman.
W. Bae chf Chairman.

Subscribed and sworn to before me this *twenty third* day of *May*, 19*15*.

R. P. A. Johnson
Surveyor Draftsman

OATH OF SURVEYOR

I, **R. P. A. Johnson, Surveyor Draftsman.**

[Forest Service Title.]

do solemnly swear that, in strict conformity with the special instructions of the United States Surveyor General for **Arizona**, dated **February 11**, 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**

Application , No. **522**, dated **September 14, 1914**, for Patent , under the Act of **June 11**, 19**06**, the same to be known as Homestead Entry Survey No. **333**, situated within the **Tonto** National Forest, in **un** surveyed Section **30**, Township **11 N.**, Range **7 E.**, 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.

R. P. A. Johnson
Surveyor Draftsman
[Forest Service Title.]

Subscribed and sworn to before me this *twelfth* day of *June*, 19*15*.

Elsie C. Myers
Notary Public



TONTO NATIONAL FOREST

STATE OF ARIZONA

Chains Applicant for listing, Arthur Heath; Application No. 522,
dated September 14, 1914.
Surveyed under special instructions from the Surveyor Gen-
eral for Arizona, dated February 11, 1915, and designated
as Homestead Entry Survey No. 333.
Situating in unsurveyed T. 11 N., R. 7 E., in what will prob-
ably be when surveyed sec. 30, Gila and Salt River Base
and Meridian, Tonto National Forest, Arizona.
Surveyed under the Acts of June 11, 1906, and June 30, 1914
under co-operative plan.

Survey commenced April 25, 1915, and executed with a Buff
and Buff transit.

I test the adjustments of the transit and make necessary
corrections.

All measurements were made directly on the slope with a
500 link steel tape and a Philadelphia stadia rod. The
slope angles were determined with a clinometer.

April 25, 1915.

At 8h. 01m. p.m. l.m.t., I observe Polaris with telescope
direct at cor. No. 1 and mark the line thus determined
with a tack in a stake set 5.00 chs. N. of my station.

Lat. 34° 17' N., long. 111° 41' W. from Verde Sheet,
U. S. G. S.

Astron. l.m.t., obsn. April 24, 32h. 01.0m.

Astron. l.m.t. U.C. Pol. April 24, 23h. 18.5m.

8h. 42.5m.

Long. cor. 1.2m.

Hour angle Pol. at obsn. 8h. 43.7m.

Azimuth Polaris 1° 02' W.

Chains. At 8h. 10.7m. p.m. l.m.t., I again observe Polaris with
 telescope reversed at cor. No. 1 and mark the line thus
 determined by a tack in a stake set 5.00 chs. N. of my
 station.

Astron. l.m.t., obsn April 24, 32h. 10.7m.
 Astron. l.m.t. U.C. Pol. April 24, 23h. 18.5m.
 8h. 52.2m.
 Long. cor. 1.2m.
 Hour angle Pol. at obsn. 8h. 53.4m.
 Azimuth Polaris 1° 00' 06" W.

April 26, 1915.

I turn off 1° 02' and 1° 00' 06" to E. from my lines of
 sight of last night's observations which define two
 lines which differ 00° 00' 06" of arc. I mark the mean
 of these two lines and from the corresponding meridian
 all the courses of this survey were deflected.

There being no cor. of the public land survey or U. S.

L. M. within the prescribed limits, I establish U. S.

L. M. No. 333 H. E. S. on top of a long hogback, approxi-
 mately $\frac{1}{4}$ of a mile E. of Verde River and $\frac{1}{4}$ of a mile N.
 of East Verde River, 250 ft. above the high water marks.

I mark a cross on top of a malpais boulder in place,
 48 x 12 x 10 ins. above ground, and chisel U S L M No
 333 H E S on SE. face and raise a mound of stone 8 ft.
 dia. by 5 ft. high alongside; whence

A cross on a malpais boulder 4 x 4 x 4 ft. above
 ground, chiseled B R-U S L M No 333 H E S bears
 S. 54° 28' E., 55 lks. dist.

A juniper 6 ins. dia. bears N. 3° 45' W., 225 lks.
 dist. scribed U S L M No 333 H E S B T.

GIBSON TONTO NATIONAL FOREST

STATE OF ARIZONA

Chains

Tower No. 279 of Arizona Power Company's line on edge of Tule Mesa bears N. $61^{\circ} 46'$ W. approximately 9 miles dist.

Squaw Butte SW. of junction of Houston Creek with Verde River bears S. $60^{\circ} 53'$ W. approximately 2 miles dist.

Pine Mountain bears N. 85° W. approximately $7\frac{1}{2}$ miles dist.

Junction of Verde River with East Verde River bears S. $53^{\circ} 35'$ W. approximately 22 chs. dist.

South-end of Ike's Backbone which lies N. of junction of Fossil Creek with the Verde River bears N. $16^{\circ} 05'$ W., approximately 2 miles dist.

Cor. No. 1 H. E. S. No. 333 bears N. $65^{\circ} 56'$ W., 12.23 chs. dist.

Beginning at cor. No. 1.

At this point I set a malpais stone 26 x 14 x 8 ins., 16 ins. in the ground, over a small stone marked with a cross, chiseled 1-H E S 333 on S. face, and raise a mound of stone 4 ft. base, $2\frac{1}{2}$ ft. high, around corner to protect it, whence

A mesquit 4 ins. dia. bears S. $54^{\circ} 38'$ E., 84 lks. dist. scribed 1 H E S 333 B T.

A mesquit 4 ins. dia. bears S. $7^{\circ} 31'$ W., 53 lks. dist. scribed 1 H E S-333 B T.

U. S. L. M. No. 333 heretofore described which is in plain view bears S. $65^{\circ} 56'$ E., 12.23 chs. dist.

Lat. $34^{\circ} 17'$ N. Long. $111^{\circ} 41'$ W. from Verde Sheet, U. S. G. S. Mag. Va. at 7 a.m. $14^{\circ} 30'$ E. Mean. Mag. Decl. $14^{\circ} 27'$ E.

Chains	<p>Thence S. 50° 45' E.</p> <p>Asc. 70 ft. along SW. slope.</p> <p>8.00 Top ascent. Desc. 50 ft. along SW. slope.</p> <p>16.00 Foot descent. Asc. along S. slope 130 ft. to cor.</p> <p>41.10 To cor. No. 2.</p> <p>A malpais boulder in place 30 x 30 x 20 ins. above ground. I chisel a cross on top of this boulder and 2-H E S 333 on SW. face and raise a mound of stone 3 ft. base, 2 ft. high, SW. of cor. from which</p> <p>A cross on a malpais boulder in place 3 x 2 x 2 ft. above ground chiseled B R - 2 H E S 333 bears N. 80° 50' W., 22 lks. dist.</p> <p>A palo verde 4 ins. dia. bears N. 23° 04' E., 40 lks. dist. scribed 2 H E S 333 B T.</p>
	<p>Thence S. 9° 30' E.</p> <p>Desc. 140 ft. to River.</p> <p>6.13 Irrigation ditch 6 lks. wide, course WNW.</p> <p>9.00 East Verde River, 1 ch. wide, banks 4 ft. high, course WNW. Asc. 140 ft. to cliff.</p> <p>13.00 Top cliff. Asc. 20 ft. to cor.</p> <p>13.37 Fence bears NW. and SE.</p> <p>13.52 To cor. No. 3.</p> <p>At this point I set a malpais rock 28 x 16 x 8 ins., 18 ins. in the ground over a small stone marked with a cross, chiseled 3-H E S 333 on NW. face and raise a mound of stone 3 ft. base, 2 ft. high, NW. of cor. from which</p> <p>A juniper 18 ins. dia. bears S. 2° 48' E., 227 lks. dist. scribed 3 H E S 333 B T.</p> <p>A twin juniper 24 ins. dia. bears N. 27° 54' W., 43 lks. dist. scribed 3 H E S 333 B T.</p>

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TONTO NATIONAL FOREST

STATE OF ARIZONA

Chains Thence N. 67° 49' W.
 Desc. 75 ft. along edge of bench.
 13.30 Fence bears N. and S.
 20.58 Enter old Indian ruins 100 ft. wide.
 22.70 Leave ruins. Desc. 40 ft. to arroyo.
 25.10 Arroyo 40 lks. wide, course N.
 Asc. 30 ft. to mesa.
 27.60 Top mesa. Desc. 10 ft. along mesa.
 40.20 Edge, mesa. Desc. 20 ft. to cor.
 41.72 To cor. No. 4.

I chisel a cross and 4-H E S 333 on top of a limestone bluff 60 x 20 x 20 ft. and raise a mound of stone 3 ft. base, 2 ft. high, NE. of cor. from which
 A cross on a limestone 8 x 5 x 4 ft. above ground
 chiseled B R - 4 H E S 333 bears N. 68° 40' E.,
 132 lks. dist.
 A cottonwood 30 ins. dia. bears N. 16° 35' W.,
 220 lks. dist., scribed 4 H E S 333 B T .

Thence N. 10° 57' E.
 Desc. 60 ft. to River.
 5.00 Left bank East Verde River 120 lks. wide, banks 4 ft. high, course ESE.
 Asc. 5 ft. to cor.
 23.96 To cor. No. 1 the place of beginning.

Area
 Total Area. 67.33 acres.

Improvements.

The improvements made upon and for the benefit of this claim and belonging to applicant consist of following:

Chains A one-room house 20 x 16 ft. the long side, extending
E. and W. and the SW. cor. of which bears S. 11° 12' E.,
15.53 chs. dist. from cor. No. 1.
Value.....\$200.00

A hayshed 42 x 16 ft. the long side extending N. and S.
and the NE. cor. of which bears S. 36° 15' E., 12.98
chs. dist. from cor. No. 1.
Value.....\$200.00

There is approximately 1/2 mile of wire fence and 3/4 of a
mile of irrigation ditch.
Value.....\$375.00

Description.

This claim is situated at the junction of the East Verde
River with the Verde River in bottom of 2000 ft. canyon.
It lies at an elevation of 2800 ft. and consists largely
of bottom land with steep slopes rising to NW. and a
low mesa on south. The general slope is to NW. with N.
and SW. exposures.

There is no merchantable timber on this claim. The cover
consists of mesquit on flat south of river, cottonwood
along river banks, and at west end, and oak brush on
the slopes.

The bottom land has a rich dark sandy loam which produces
good crops. The soil on slope is rocky, shallow, and
non-tillable.

East Verde River furnishes abundance of water for irriga-
tion, and domestic use... Water for irrigation is claimed
to have been appropriated in 1889.

Mayer the nearest railroad point is 45 miles to west, and
is reached by six miles of poor trail and 39 miles of
fair wagon road. Camp Verde the nearest postoffice is
30 miles to north and is reached by 24 miles of good
trail and six poor. Power House of Arizona Power Co.

TONTO NATIONAL FOREST

STATE OF ARIZONA

Chains

is six miles to north.

I saw no indications of mineral upon this claim.

Conflicts and Adjoining Claims.

The entire area lies within First Form Reclamation withdrawal but Reclamation Service has agreed to release this tract. There are no adjoining claims.

Traverse

Cor.	Course	Dist.	N.	S.	E.	W.
1-2	S. 50° 45' E.	41.10		26.00	31.83	
2-3	S. 9° 30' E.	13.52		13.33	2.23	
3-4	N. 67° 49' W.	41.72	15.75			38.63
4-1	N. 10° 57' E.	23.96	23.52		4.55	
		120.30	39.27	39.33	38.61	38.63
				39.27		38.61
	Error in lat. and dep.			0.06		0.02

Closing error 1:1904

Survey completed April 26, 1915.

R. P. Johnson
Surveyor Draftsman.

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. Surveyors are required to use the Standard Field Tables issued by the G. L. O.

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.

TABLE AND CALCULATIONS OF HOMESTEAD ENTRY SURVEY NO. 333, STATE OF ARIZONA

CORNERS.	BEARING.	DISTANCE.	LATITUDES.		DEPARTURES.		DOUBLE M. D.	N. AREAS.	S. AREAS.
			NORTH.	SOUTH.	EAST.	WEST.			
77439 63371 1-2	S. 50° 45' E.	41.10		26.00 ✓	31.84 ✓	31.83 ✓	40.94	1063.62 ✓	
16505 98639 2-3	S. 9° 30' E.	13.52		13.33 ✓	2.23 ✓	38.63 ✓	75.01	999.13 ✓	
92548 37757 3-4	N. 67° 49' W.	41.72	15.77 ✓			38.63 ✓	38.62		609.04 ✓
18995 98179 4-1	N. 10° 57' E.	23.96	23.52 ✓		4.55 ✓		4.55		107.06 ✓
		120.30	39.27	59.33	38.61	38.63		716.10 ✓	2062.75 ✓
			39.30	37.30	38.62	38.62		716.10	1346.65 ✓
								67.332 acres.	

CLOSING ERROR 1:1904

T. A.

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APPROVAL

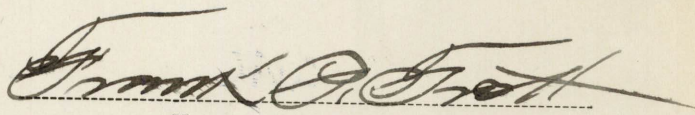
Office of the United States Surveyor General,

Phoenix, Arizona JUL 3 1917 , 191

The foregoing field notes of Homestead Entry Survey No.

333

executed by R. P. A. Johnson, Surveyor-Draftsman
under his special instructions, dated February 11, 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.