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U. S. DEPARTMENT OF AGRICULTURE
FOREST SERVICE

MAY-7-1920

FIELD NOTES

OF

HOMESTEAD ENTRY SURVEY NO. 574

SITUATED IN THE TONTO NATIONAL FOREST

ADMINISTRATIVE DISTRICT NO. 3

In Section 27, unsurveyed, Township 11 N., Range 11 E.
In Section 34, unsurveyed, Township 11 N., Range 11 E.

of the

GILA AND SALT RIVER BASE & Meridian.

State of

ARIZONA

Applicant for listing T. H. Ezell ✓
 Residence Payson, Arizona.
 Application No. 289, dated August 14, 19 11 ✓
 List No. 3-1502, dated October 12 19 11 ✓

Applicant for survey Arthur L. Neal ✓
 Residence Payson, Arizona.
 H. E. No. 040308, dated August 9, 19 18 ✓
 Land Office Phoenix, Arizona. ✓

Survey executed by Frank D. Yost, Surveyor - Forest Service, [Forest Service Title]
 Under special instructions dated May 23, 19 18 ✓
 Survey commenced April 15, 19 19
 Survey completed April 16, 19 19
 Under Acts of June 11, 1906, and October 1, 1918. ✓

200

OATH OF ASSISTANTS

We hereby certify that we assisted
Surveyor - Forest Service,
[Forest Service Title.]

Frank D. Yost,
in surveying all those

parts or portions of Homestead Entry Survey No. 574, 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 inconvenient and expensive to appear before an officer to administer the oaths to assistants; hence, they were taken by the Surveyor.

H. E. Brandlebury
Chainman.

H. H. Longfellow
Chainman.

Subscribed and sworn to before me this
August, 1919.

Frank D. Yost
Surveyor - Forest Service,

OATH OF SURVEYOR

I, Frank D. Yost, Surveyor - Forest Service,
[Forest Service Title.]

do solemnly swear that, in strict conformity with the special instructions of the United States Surveyor General for ARIZONA, dated May 23, 1918, 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. 3-1502, dated October 12, 1911, for patent, under the Act of June 11, 1906, the same to be known as Homestead Entry Survey No. 574, situated within the TONTO National Forest, in surveyed Section 27, Township 11 N., Range 11 E., and surveyed Section 34, Township 11 N., Range 11 E.

of the GILA AND SALT RIVER BASE & 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.

Frank D. Yost
Surveyor - Forest Service,
[Forest Service Title.]

Subscribed and sworn to before me this
November, 1919.

fifth day of

Estel G. Myers
Notary Public,



8-2349

My commission expires March 17, 1921.

TONTONATIONAL FOREST

STATE OF ARIZONA

Chains Applicant for listing, T. H. Ezell; Application 289, dated August 14, 1911; List No. 3-1502, dated October 12, 1911; H. E. 040308, made in the Phoenix Land Office; on August 9, 1918, by Arthur L. Neal.

List 3-1502 was made by legal subdivisions in a township which was never legally surveyed. No attempt was made to locate original list lines on the ground. This survey is therefore in the nature of a cooperative survey and will be used as a basis for substitute listing and amendment of entry. Township 11 N., R. 11 E. was surveyed under contract No. 116 by U. S. Deputy Surveyors Campbell and Oaks, dated April 18, 1904. The East boundary and subdivisions were finally rejected on January 8, 1909. The retracement of portions of south and west boundaries under this contract were accepted on same date.

The changes made in this survey are in accordance with the desires of the entryman and meet with the approval of the Forest Service. The survey as now marked upon the ground includes all possible agricultural land intended to be embraced in the original listing while excluding Forest Land. Copy of a signed statement from the claimant agreeing to the changes and also agreeing to amend his entry to conform to this survey is attached at the end of these notes.

Surveyed under special instructions from the Surveyor General for Arizona, dated May 23, 1918, and designated as Homestead Entry Survey No. 1574.

Situated in what will probably be when surveyed, Secs. 27 and 34, T. 11 N., R. 11 E., Gila and Salt River Base and Meridian, Tonto National Forest, Arizona.

Surveyed under the Acts of June 11, 1906 and October 1, 1918.

Chains Survey commenced April 15, 1919, and executed with a Buff
and Buff transit No. 10019, equipped with Smith solar
attachment.

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

All distances are horizontal, and were reduced from
measurements made directly on the slope with a 500 link
steel tape. The slope angles were determined with a
clinometer.

April 15, 1919.

At Cor. No. 1, of this survey hereinafter described,

at 6h 39.5m p.m., l.m.t., I observe Polaris with tele-
scope direct, reading an angle of 34° 01' 45" from star
to right to a reference mark 3 miles dist.

Lat. 34° 15' 44" N., Long. 111° 12' 56" W., from

Special Instructions from Surveyor General and later
verified.

Greenwich m.t., U.C. Polaris, April 15, 1919, 0h 00.2m p.m.

Corr. for long. 1.2

l.m.t. U. C. Polaris, April 15, 1919, 11h 59.0m a.m.

l.m.t. obsn. Polaris, April 15, 1919, 6h 39.5m p.m.

Hour Angle, 6h 40.5m

Azimuth of Polaris at obsn. 1° 20' 10" W. ✓

Bearing of Reference Mark, N. 32° 41' 35" E. ✓

At the same station at 6h 42.4m p.m., l.m.t., I again
observe Polaris with telescope reversed reading an
angle of 34° 00' 00" from star to right to same refer-
ence mark.

l.m.t., U.C. Polaris, April 15, 1919, 11h 59.0m a.m.

l.m.t., obsn. Polaris, April 15, 1919, 6h 42.4m p.m.

Hour Angle, 6h 43.4 m

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STATE OF ARIZONA

Chains Azimuth Polaris at obsn. $11^{\circ} 19' 48''$ W. ✓
 Bearing of reference mark, N. $32^{\circ} 40' 12''$ E. ✓
 The two obsns. give a mean bearing of reference mark
 as N. $32^{\circ} 40' 53''$ E. I accept N. $32^{\circ} 41'$ E. as bear-
 ing of reference mark and to the corresponding meridian
 all courses of this survey were referred by sustained
 angulation.

BOUNDARIES OF CLAIM

April 16, 1919.
 Beginning at Cor. No. 1.
 Point for cor. falls on an embedded sandstone boulder
 showing 24 x 14 x 6 ins. above ground. I chisel same
 boulder on top and L H E S 574 on NE. face for Cor.
 No. 1 of this survey; raise a mound of stone 3 ft. base,
 2 ft. high NE. of cor., whence:
 A wild cherry tree 8 ins. dia., brs. S. $56^{\circ} 20'$ W.,
 50 lks. dist.
 A sycamore 18 ins. dia., bears N. $25^{\circ} 48'$ W.,
 45 lks. dist.
 Each blazed and scribed, L H E S 574 +, B T
 Cor. to Secs. 3, 4, 33 and 34, Ts. 10 and 11 N.,
 R. 11 E., a granite stone 8 x 10 x 7 ins.
 above ground, marked and witnessed as des-
 cribed by the Surveyor General, bears
 S. $26^{\circ} 14' 14''$ W., 55.51 chs. dist. by tra-
 verse which appears at the end of these notes.
 Lat. $34^{\circ} 15' 44''$ N., Long. $111^{\circ} 12' 56''$ W., from Special
 Instructions from the Surveyor General and later veri-
 fied.
 Mag. decl. at 8 a.m. is $14^{\circ} 30'$ E., Mean Magnetic
 decl. is $14^{\circ} 27'$ E.
 Thence N. $1^{\circ} 22'$ E.

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STATE OF ARIZONA

Chains. Over rolling land, along foot of East slope.

.91 Lion spring Gulch, 60 lks. wide, 5 ft. deep, (dry,
 course SW. Ascend 30 ft. to cor.

14.18 To Cor. No. 2.
 Point for cor. falls on an embedded sandstone boulder
 showing 12 x 12 x 5 ins. above ground. I chisel
 same boulder + and 2 ^H E S 574 on top for Cor. No. 2
 of this survey; raise a mound of stone 3 ft. base, 2 ft.
 high E. of cor., whence:
 A juniper 12 ins. dia., brs. S. 61° 15' E.,
 299 lks. dist.
 A cedar 12 ins. dia., brs. S. 8° 05' W.,
 275 lks. dist.
 Each blazed and scribed 2 H E S 574 + B T

Thence N. 20° 45' E.
 Descend 20 ft. over gradual E. slope, thru scrub oak.

31.88 To Cor. No. 3.
 Deposit a sandstone 6 x 5 x 4 ins. marked with a + 24
 ins. in the ground, over which set an iron post 2 ins.
 dia., 36 ins. long, with brass cap mkd. 1919 on S. rim,
 and 3 H. E. S. 574 in quadrant facing claim; raise a mound
 of stone 3 ft. base, 2 ft. high SE. of cor., whence:
 A juniper 30 ins. dia., brs. S. 25° 09' E.,
 23 lks. dist.
 An oak 8 ins. dia., brs. S. 72° 58' W.,
 56 lks. dist.
 Each blazed and scribed 3 H E S 574 + B T

Thence S. 88° 10' E.
 Desc. 8 ft. over gradual E. slope, thru dense oak brush
 and juniper.

3.18 Lion Spring Gulch, 50 lks. wide, 5 ft. deep, (dry),

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STATE OF ARIZONA

Chains

course S. Bottom of desc. Ascend gradual SW. slope,
11 ft., thru dense Oak brush and juniper.

7.82

To Cor. No. 4.

Deposit a sandstone 4 x 3 x 2 ins. marked with a + 24
ins. in the ground, over which set an iron post 2 ins.
dia., 36 ins. long, with brass cap mkd. 1919 on S. rim,
and 4 H E S 574 in SW. quadrant; raise a mound of stone

3 ft. base, 2 ft. high, SW. of cor., whence:

An oak 12 ins. dia., brs. S. 64° 07' W.,

21 lks. dist.

A cedar 7 ins. dia., brs. S. 13° 31' E.,

6 lks. dist.

Each blazed and scribed 4 H E S 574 + B T

Thence S. 20° 45' W.

Desc. 30 ft. over gradual SW. slope, thru dense scrub
oak.

46.75

To Cor. No. 5.

Deposit a sandstone 5 x 3 x 3 ins. marked with a + 22
ins. in the ground, over which set a blue limestone
32 x 12 x 5 ins. chiseled + for the point and 5 H E S
574 on NW. face; raise a mound of stone 3 ft. base, 2
ft. high NW. of cor., whence:

An oak 7 ins. dia., brs. S. 55° 00' W.,

15 lks. dist.

An oak 12 ins. dia., brs. S. 0° 42' E.,

15 lks. dist.

Each blazed and scribed 5 H E S 574 + B T

Thence S. 88° 55' W.

Over level bottom land,

2.97

To Cor. No. 1, the place of beginning.

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STATE OF ARIZONA

Chains

AREA

Total Area - - - - - 31.30 Acres

IMPROVEMENTS

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

A frame house, 30 x 35 ft., the long sides extending E. and W., and the NW. cor. of which bears S. 45° 40' E., 262 lks. dist. from Cor. No. 3,

Value - - - - - \$ 400.00

A frame barn, 18 x 22 ft., the long sides extending N. and S.; the NW. cor. of which bears S. 13° 01' E., 547 lks. dist. from cor. No. 3.

Value - - - - - \$ 150.00

A frame shed 12 x 18 ft., the long sides extending E. and W., the NW. corner of which bears S. 27° 40' E., 562 lks. dist. from cor. No. 3,

Value - - - - - \$ 50.00

A well 4 ft. dia., 28 ft. deep, rock walled, is located at the SE. cor. of house,

Value - - - - - \$ 75.00

Approximately 1-1/4 miles of barbed wire fencing,

Value - - - - - \$ 125.00

DESCRIPTION

This claim consists mostly of flat bottom land in Lion Springs Gulch, which traverses the claim from NE. to

TONTO NATIONAL FOREST

STATE OF ARIZONA

Chains

SW.

The soil is a sandy loam of good depth, and very fertile. About 75 per cent of the claim is suitable for agricultural purposes. Approximately 20 acres were under cultivation at the time of survey. The hillsides are rough and rocky and fit for grazing land only.

Water for domestic use is obtained from the well near the house.

I saw no evidence of mineral on the claim.

There is no merchantable timber on the claim.

CONFLICTS AND ADJOINING CLAIMS

There are no conflicts or adjoining claims.

Payson, Arizona, the nearest settlement and postoffice, is 10 miles in a westerly direction.

TRAVERSE

Course	Dist.	N.	S.	E.	W.
N. 1° 22' E.	14.18	14.18		.34	
N. 20° 45' E.	31.88	29.81		11.29	
S. 88° 10' E.	7.82		.25	7.82	
S. 20° 45' W.	46.75		43.72		16.56
S. 88° 55' W.	2.97		.06		2.97
	103.60	43.99	44.03	19.45	19.53
			43.99		19.45
Error in Lat. and Dep.			.04		.08

Closing Error, 1: 1158

TIE FROM COR. No. 1 to Cor. to Secs. 3, 4, 33 and 34, T. 10 & 11 N., R. 11 E.

Course	Dist.	N.	S.	E.	W.
S. 11° 13' E.	2.14		2.10	.42	
S. 69° 49' W.	6.09		2.10		5.72
S. 52° 43' W.	7.08		4.29		5.63
S. 45° 23' W.	10.44		7.33		7.43
S. 28° 56' W.	1.97		1.72		.95
S. 12° 13' W.	33.20		32.45		7.03
N. 83° 42' E.	1.81	.20		1.80	
	62.73	.20	49.99	2.22	26.76
			.20		2.22
			49.79		24.54

Resultant Course S. 26° 14' 14" W., 55.51 chs.

Survey completed, April 16, 1919.

Frank J. York
Surveyor - Forest Service,

HOMESTEAD ENTRY SURVEY NO. 108

NATIONAL FOREST

STATE OF ARIZONA

Chains

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Chain	Distance	Bearing	Area	Remarks
1	11.25	S 85° 15' E	0.11	...
2	15.75	S 75° 15' E	0.17	...
3	15.75	S 65° 15' E	0.17	...
4	11.25	S 55° 15' E	0.11	...
5	11.25	S 45° 15' E	0.11	...
6	15.75	S 35° 15' E	0.17	...
7	15.75	S 25° 15' E	0.17	...
8	11.25	S 15° 15' E	0.11	...
9	11.25	S 5° 15' E	0.11	...
10	15.75	S 35° 15' E	0.17	...
11	15.75	S 25° 15' E	0.17	...
12	11.25	S 15° 15' E	0.11	...
13	11.25	S 5° 15' E	0.11	...
14	15.75	S 35° 15' E	0.17	...
15	15.75	S 25° 15' E	0.17	...
16	11.25	S 15° 15' E	0.11	...
17	11.25	S 5° 15' E	0.11	...
18	15.75	S 35° 15' E	0.17	...
19	15.75	S 25° 15' E	0.17	...
20	11.25	S 15° 15' E	0.11	...
21	11.25	S 5° 15' E	0.11	...
22	15.75	S 35° 15' E	0.17	...
23	15.75	S 25° 15' E	0.17	...
24	11.25	S 15° 15' E	0.11	...
25	11.25	S 5° 15' E	0.11	...
26	15.75	S 35° 15' E	0.17	...
27	15.75	S 25° 15' E	0.17	...
28	11.25	S 15° 15' E	0.11	...
29	11.25	S 5° 15' E	0.11	...
30	15.75	S 35° 15' E	0.17	...
31	15.75	S 25° 15' E	0.17	...
32	11.25	S 15° 15' E	0.11	...
33	11.25	S 5° 15' E	0.11	...
34	15.75	S 35° 15' E	0.17	...
35	15.75	S 25° 15' E	0.17	...
36	11.25	S 15° 15' E	0.11	...
37	11.25	S 5° 15' E	0.11	...
38	15.75	S 35° 15' E	0.17	...
39	15.75	S 25° 15' E	0.17	...
40	11.25	S 15° 15' E	0.11	...
41	11.25	S 5° 15' E	0.11	...
42	15.75	S 35° 15' E	0.17	...
43	15.75	S 25° 15' E	0.17	...
44	11.25	S 15° 15' E	0.11	...
45	11.25	S 5° 15' E	0.11	...
46	15.75	S 35° 15' E	0.17	...
47	15.75	S 25° 15' E	0.17	...
48	11.25	S 15° 15' E	0.11	...
49	11.25	S 5° 15' E	0.11	...
50	15.75	S 35° 15' E	0.17	...

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DEC 15 1919

April 16, 1919.

I, Arthur L. Neal, hereby agree to the survey of my homestead, number 574, as made on 16th day of April, 1919, by Forest Service Surveyor Frank D. Yost, and further agree that when notified that the survey has been approved and before attempting to make final proof on my entry, I will apply for amendment of the same to conform with said survey.

The changes made by the surveyor are including all land desired by me of an agricultural nature, and excluding all forest land.

(Sgd.) Jay F. Vann,

(Sgd.) Arthur L. Neal,

Witness,

Claimant,

- 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. 574, STATE OF Arizona

8-2349

CORNERS.	BEARING.	DISTANCE.	LATITUDES.		DEPARTURES.		DOUBLE M. D.	N. AREAS.		S. AREAS.	
			NORTH.	SOUTH.	EAST.	WEST.					
1 - 2	N. 1-22 E.	14.18	14 18		34		35	4 96			
2 - 3	N. 20-45 E.	31.88	29 81		11 29		12 02	358 56			
3 - 4	S. 88-10 E.	7.82		25	7 82		31 16			7 79	
4 - 5	S. 20-45 W.	46.75		43 72		16 56	22 46			981 50	
5 - 1	S. 88-55 W.	2.97		06		2 97	2 97			18	
		103.60	43.99	44 03	19 45	19 53		363 52		989 47	
			44 01	43 99	19 49	19 45				363 52	
	Error in Lat. and Dep.			04		08				20 625 95	
										31 30	Acres,
	Closing Error, 1:1158										I.S.

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APPROVAL

Office of the United States Surveyor General,

Phoenix, Arizona, May 10, 1920

The foregoing field notes of Homestead Entry Survey No.

574

executed by *Frank D. Gost, Surveyor* [Forest Service Title.]
under his special instructions, dated *May 23*, 1918, 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.