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U. S. DEPARTMENT OF AGRICULTURE

FOREST SERVICE

OCT.-21916

FIELD NOTES

OF

HOMESTEAD ENTRY SURVEY NO. 402

SITUATED IN THE

TONTO

NATIONAL FOREST

ADMINISTRATIVE DISTRICT NO. 3

In Section 22 , unsurveyed, Township 112 N. Range

27 (See 22)

of the

Gila and Salt River Base and Meridian.

State of

ARIZONA

Applicant for listing Robert Peach,

Residence

Pine, Arizona

Application No. 391

, dated

February 24 , 1913

List No.

3-3001/

, dated

December 31 , 1913

Applicant for survey Robert Peach,

Residence

Pine, Arizona

H. E. No.025227 VOffice

, dated

June 3

, 1914

Land District

Phoenix, Arizona

Survey executed by R. P. A. Johnson,

Surveyor - Draftsman
[Forest Service Title.]

Under special instructions dated

September 23 , 1915

Survey commenced

November 28 , 1915

Survey completed

November 28 , 1915

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

SEAL.

8-2349

OATH OF ASSISTANTS
We hereby certify that we assisted P.A. Johnson
Ourveyor State man in surveying all those [Forest Service Title.]
parts or portions of Homestead Entry Survey No. 402, in the State of 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
6016 14
Note: It would have been very expensive and inconvenient to appear before an officer to administer oaths to Assistants; hence, they
were taken by the Surveyor.
Subscribed and sworn to before me this fifteenth day of December, 19/5.
Rundeyor Shafton
OATH OF SURVEYOR I, Polymon Surveyor Orafts man [Forest Service Title.] do solemnly swear that, in strict conformity with the special instructions of the United States Surveyor General for Augusta dated September 3 1915, and the laws of the United States, I have well, faithfully, and truly, in my own proper person, surveyed a tract of land emmaced in
the same to be known as Homestead Entry Survey No. How National Forest, in unsurveyed Sections 2 2927, Township 11/2N, Range 8E, and surveyed Section, Township, Range,
of the Glaud Self Aver 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.
Sarotun Drattoman
Subscribed and sworn to before me this 241 day of
march, 19/6.

TONTO NATIONAL FOREST

STATE OF ARIZONA

Chains

Applicant for listing, Robert Peach; Application No. 391, dated February 24, 1913; List No. 3-3001, dated December 31, 1913; H. E. 025227, made in the Phoenix Land Office on June 3, 1914 by Robert Peach.

Surveyed under special instructions from the Surveyor

General for Arizona, dated September 23, 1915 and designated as Homestead Entry Survey No. 402.

Situated in unsurveyed T. 11-1/2 N., R. 8 E., in what will probably be, when surveyed, Secs. 22&27Gila and Salt River Base and Meridian, Tonto National Forest, Arizona.

Surveyed under the Acts of June 11, 1906 and March 4,

Survey commenced November 28, 1915, and executed with a Buff and Buff transit No. 9700-6.

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. The slope angles were determined with a clinometer. Horizontal distances only appear in these notes.

At 2h. 09 lm. p.m., l.m.t., I observe the altitude of the sun for azimuth at cor. H-3 of the list survey. The reading on the reference object was set at zero and the sun was observed in the upper left and lower right quadrants of the field. My watch is set for local mean time. Latitude 34° 21' 54" N., Long. 111° 31' 04" W., from special instructions from the Surveyor General.

Chains

HOMESTEAD ENTRY SURVEY NO. 402

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, Horizontal Vertical Telescope : Time Angle Angle -шаре(370 571 00" 24° 11' 00" 2h. 08m. 43s. Direct 2h. 09m. 35s. 37° 33' 00" 24° 46' 00" Reversed Bearing of reference mark, N. '0° 13' 27" W. At 3h. 19.9m. p.m., 1.m.t., I again observe the altitude of the sun for azimuth at cor. No. 4 of this survey, hereinafter described. The reading on the reference object, which is in the meridian brought forward from obsn. at cor. H-3. is set at zero and the sun was observed in the upper left and lower right quadrants of Lat. 34° 22' N. Long. 111° 31' 26" W. the field. Telescope Horizontal Vertical Time . are Angle Angle 51° 28' 30" 14° 00' 00" 3h. 19m. 29s. Direct 51° 05' 30" 140 24' 30" Reversed 3h. 20m. 25s. Bearing of reference object is N. 0° 00' 26" E., which checks the meridian previously determined within less than a half minute. I therefore assume the meridian as brought forward to be correct, and to which all the

November 28, 1915.

Beginning at Cor. No. 1.

courses of this survey are referred.

Identical with cor. H-4 of the list survey, which is a malpais stone 14 x 6 x 9 ins. above ground, marked and witnessed as described by the Forest Service. destroy all trace of this list cor. Deposit a stone 6 x 4 x 2 ins. marked with a +, 18 ins. in the ground, over which set a malpais stone 28 x 6 x 6 ins. chiseled + for the point and 1 - H E S 402 on S. face; and

.3.

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raise a mound of stone 3 ft. base, 2 ft. high. S. of cor., whence:

A juniper, 12 ins. dia., bears S. 33° 48' E., 163 lks. dist., blazed and scribed 1 H E S 402 + B T.

A juniper, 16 ins. dia., bears N. 3° 05' E., 253 lks. dist., blazed and scribed 1 H E S 402 f B T.

Cor. for secs. 32 and 33, on S. bdy. T. 12 N. R. 8 E., which is a 2 in: iron post with brass cap, marked and witnessed as described 'by the Surveyor General, bears N. 17° 02' E.: 48.25 chs. dist., by traverse which appears

Lat. 34° 22' 06" N., Long. 111° 31' 11" W., by account from special instructions from Surveyor General, and later verified. . Mag. decl. at 1 p.m., 14° 30' E. Mean mag. decl., 14° 32' E. . Too full what he sound fig votteen

Thence S. 24° 46', E. drive beforem . out 3 or 6 x

. In open, over level land.

Fence, bears NE. and SW. 17.70

20.64

To cor. No. 2. easd . The Second to beyon a eater Identical with cor. H-3 of the list survey, which is a malpais stone 12 x 10 x 16 ins. above ground, marked and witnessed as described by the Forest Service. destroy all trace of this list cor. Deposit a stone 3 x 3 x 3 ins. marked with a +, 14 ins. in the ground, over which set a malpais stone 24 x 12 x 5 ins., chiseled + for the point and 2 - H E S 402 on W. face; and raise a mound of stone 3 ft. base, 2 ft. high, W. of cor., whence:

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A juniper, 14 ins. dia., bears S. 26° 55' E.,

117 lks. dist., blazed and scribed.

An oak, 8 ins. dia., bears, S. 83° 20' W.,

193 lks. dist., blazed and scribed

2 H E S 402 + B.T.

Thence S. 66° 52' W. SON B M I hedites

In open, over level land.

7.08 Fence, bears NE. and SW.

13.57 Button Wash, 43 lks. wide, 3 ft. deep, course S.

14.05 Enter edge of cultivated land, bears NNE. and WSW.

16.50 Leave cultivated land, bears NW. and SE.

20.56 To cor. No. 3. negon energy to be out to

Identical with cor. H-2 of the list survey, which is a malpais stone 14 x 12 x 10 ins. above ground, marked and witnessed as described by the Forest Service. I destroy all trace of this list cor. Deposit a stone 3 x 2 x 2 ins. marked with a +, 18 ins. in the ground, over which set a malpais stone 28 x 10 x 4 ins., chiseled + for the point and 3 - H E S 402 on N. face; and raise a mound of stone 3 ft. base, 2 ft. high, N. of cor., whence:

A juniper, 7 ins. dia., bears N. 56° E.,

123 lks. dist., blazed and scribed

3 H E S 402 + B T.

A juniper, 10 ins. dia., bears S. 12°
18' E., 85 lks. dist., blazed and
scribed 3 H E S 402 + B T.

Thence N. 23° 46' W.

In open, over level land.

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Chains 20.26

To cor. No. 4. og ans nour same stromevergut ent

At fence cor. Fence bears NE. and SE.

Deposit a stone 3 x 2 x 2 ins. marked with a +, 14

ins. in the ground, over which set a malpais stone

24 x 12 x 4 ins. chiseled + for the point and 4
H E S 402 on E. face; and raise a mound of stone 3 ft.

base, 2 ft. high, E. of cor., whence:

A juniper, 75 ins. dia., bears S. 52°
27' E., 12 lks. dist., blazed and
scribed 4 H E S 402 + B T.

A juniper, 10 ins. dia., bears S. 18°
09' W., 198 lks. dist., blazed and
scribed 4 H E S 402 + B T.

Juniper, 75 ins. dia., marked and witnessed as described by the Forest Service,
bears S. 52° 27' E., 12 lks. dist. I destroy all trace of this list cor.

Thence N. 65° 50' E.

In open, over level land.

15.20 Fence, bears NNW. and SSE.

18.06 Button Wash, 5 lks. wide, 1 ft. deep, course S.

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

AREA

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Total Area - - - - - - - - - - - 41.67 acres.

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IMPROVEMENTS

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

An uncompleted log dwelling, 24 x 12 ft., the long side of which bears NE. and SW. and the S. cor. of which bears N. 10° 59' W., 2.40 chs. dist. from cor. No. 3.

There is approximately 1-1/4 miles of wire fencing.

Value ----- \$100.00

DESCRIPTION.

This claim is situated on Hardscrabble Mesa, three miles South of Mogollon Rim and near the head of Button Wash. The tract is part of an open level mesa lying at an elevation of 6100 ft. The general slope is to the North and is slight.

The soil is shallow sandy loam, sprinkled with small malpais boulders. It is tillable and may produce cops without irrigation when cultivated.

There is no water for any purpose and water for domestic use is hauled from Strawberry, 3 miles dist.

There are two acres of cultivated land on tract.

There is no timber on the claim.

I saw no indication of mineral upon this claim.

CONFLICTS AND ADJOINING CLAIMS

There are no conflicting or adjoining claims.

Strawberry, the nearest settlement, is 3 miles to North,

H E S 134 lies northeasterly about one mile dist.

H E S 133 lies southwesterly about 1-3/4 miles dist.

7.

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and Pine, the nearest post office, is 5 miles East.

Both are reached by poor road.

Flagstaff, the nearest railroad point, is 90 miles to North and over mountain road.

			T	RAVERSE				
Cor.	Cou	rse		Dist.	N	S	E	W
1-2 S	24°	461	E.	20.64		18.74	8.65	V
2-3 S	. 66°	521	W.	20.56		8.08		18.91
3-4 N	. 23°	46'	W.	20.26	18.54			8.17
4-1 N	65°	50'	E	20.21	8.27 / 26.81	26.82		27.08
						26.81	27.08	

Error in Lat. and Dep.

.01 . 01

Closing error, 1:5776.

Survey completed November 28, 1915.

Surveyor - Draftsman

NATIONAL FOREST

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Surveyor - Draftsman

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Direct Solar at Cor. No. 4, November 28, 1915. Chains Lat. 34° 22' N., Long. 111° 31' 26" W. Elev. 6100 ft. Horizontal Telescope Time Vertical Pos. Angle Angle Direct 3h. 19m. 29s. 51° 28' 30" 14° 00' 00"

Reversed 3h. 20m. 25s. 51° 05' 30" 14° 24' 30"

Mean 3h. 19m. 57s. 51° 17' 00" 14° 12' 15"

7h. 26m. 06s. 03' 01"

10h. 46m. 03s. 14° 09' 14" Decl. 21° 15' 15" S. Cos. Q. = sin. 21° 15' 15"
cos. 34° 22' x cos. 14° 09' 14" tan. 34° 22' x Tan. 14° 09' 14" log. sin. 21° 15' 15" = + 9.559315 log. cos. 34° 22' 00" = + 9.916687 log. cos. 14° 09' 14" = - 9.986612 9.656016 = log. .45291 log. tan. 34° 22' 00" = 9.834967/ log. tan. 14° 09' 14" = 9.401715 9.236682 = log. .17246 Cos. Q. = 62537 Q. = 51° 17' 26" Bearing of reference object, N. 0° 00' 26" E. Direct Solar at cor. No. 2, November 28, 1915. Lat. 34° 21' 54" N., Long. 111° 31' 04" W. Elev. 6100 ft. Telescope Time Horizontal Vertical Pos. Angle Angle Sun Direct 2h. 08m. 43s. 37° 57' 00" 24° 11' 00"

Reversed 2h. 09m. 35s. 37° 33' 00" 24° 46' 00"

Mean 2h. 09m. 09s. 37° 45' 00" 24° 28' 30"

7h. 26m. 04s. 01' 42" 9h. 35m. 13s. 24° 26' 48" Decl. 21° 14' 43" S. Cos. Q. = - sin. 21° 14' 43"

Cos. 34° 21' 54" x cos. 24° 26' 48" tan. 34° 21' 54" x tan. 24° 26' 48" log. sin. 21° 14' 43" = + 9.559142 log. sin. 21° 14° 45" = + 9.555142 log. cos. 34° 21' 54" = - 9.916696 log. cos. 24° 26! 48" = - 9.959206 9.683240 = log. .48221 log. tan. 34° 21' 54" = 9.834940 \(\)
log. tan. 24° 26' 48" = 9.657632 9.657632 9.492572 = log. _.31087/ Cos. Q. .79308 Q. = 37° 31' 33" V

Bearing of reference object, N. 0° 13' 27" W.

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STATE OF

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Chains diel ,88 redmevoll .4 .on .roo te reloc toerio
    Lat. 34° 22' N., Long. 111° 31' 26" T. Blev. 6100 ft.
             Horizontel Leineziron
             Direct Sh. 19m. 29s. 51° 28' 30" 14° 00' 00 80 80 80 80m. 25s. 51° 05' 30" 14° 24' 30 14° 31. 19m. 57s. 51° 17' 00" 14° 12' 15 7h. 26m. 06s.
                                               7h. 26m. 069.
                          Dool. 21° 15' 15" 3.
                      008. 0. = six. 81° 15' 15"
cos. 4° 28' x cos. 14° 09' 14"
                   tan. 84° 22' x 780. 14° 09' 14"
                                 log. sin. 21° la' 15" = + 9.559315
log. sos. 34° 28' 00" = + 9.916687
log. sos. 14° 09' 14" = - 9.986612
             log. tan. 14° 09' 14" = 9.834967 = 9.401715
             008. 0. = .62557
0. = 51° 17' 86"
                Bearing of reference object, M. 9° 00' 26" I.
             Direct Solar at cor. No. E, November 28, 1976.
Lat. 54° 81' 54" N., Long. 111° 51' 04" W. Blev. 6100 16.
              Horizov Leinesland
  . 209
             Direct Sh. Com. 45c. 37° 57' 00" 24° 11' 00
             Reversed 2h, Osm. 25s. 37° 38' 00" 24° 46' 00 Hean 2h. 09s. 87° 45' 00 34° 26' 86 7h. 26s. 04s. 01' 42 9b. 05s. 13s. 24° 26' 48
              24 26 26 4
                      Deed. 21° 14' 48" 8.
               Cos. 2. = ___ sin. 21° 14' 45"

Cos. 84° 21' 54" x cos. 84' 16' 48"
            ten. 34° 21' 54" x ten. 24° 25' 48"
                               log. sin. 21° 14' 45" = + 9.559142
10g. cos. 34° 21' 54" = - 9.915696
10g. cos. 24° 26' 48" = - 9.959206
            log. tan. 34° 26' 48" = 9.854940°
log. tan. 24° 26' 48" = 9.957632
9.492572 = 108. .01087
            00s. Q. = 37° 31' 85"
                    Bearing of reference object, M. 0º 15' 27" W.
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Form 85. Sheet No. 3.—Revised Feb., 1915.

DIRECTIONS.—1. Carry out calculations to two decimals only.

2. In balancing Latitudes and Departures do not obliterate or change the original figures.

2. In balancing Latitudes and Departures do not obliterate or change the footing of the original figures, but put below them the corrected figure or figures above in red ink. Do not change the footing of the lines.

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.

						1												3	7		
S. AREAS.		852 59	284 82			1137 41	303 97	833 44	41 67 Acres.									A			
N. AREAS.				151 47	152 50																
DOUBLE M. D.		45 52	35 25	8 17	18 44			3									at.				
URES.	West.		18 91	8 17		80 73	2708			R 8			1 03	1,03			25 chs. dist.				
DEPARTURES	EAST.	8 65	7		18 44	27 09	2708			33, T. (2 N	5 44	9 72		15 16	2000000	14 13	02 E. 48				
DES.	South.	18 73	808			26 82	18 81			secs. 32 and				00 0			M. 17°				
LATITUDES.	North.			18 54	8 27	26 81	2681			cor. for se	5 94	38 37	1 82	46 13	00 0	46 13	and 33 bears				
DISTANCE.		20.64	20.56	20.26	20.21	81.67				1 to	8.05	29.58	2.09				secs. 32				
BEARING.		S. 24° 46' E.	S. 66° 52' W.	N. 23° 46 W.	N. 65° 50 B.				error, 1:5776.	Tie from cor. No.	N. 42° 28° E.	N. 14° 13' E.	N. 29° 28° W				Therefore cor. for				
CORNERS.		1-2	2-3	3-4	4-1				Closing		1-Tp.	TpTp.	TpSec.Cor. N.				Ther		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		

APPROVAL

Office of the United States Surveyor General,

Phoenix, Arizona, June 19, 1917.

The foregoing field notes of Homestead Entry Survey No.

402

executed by R.P.A.Johnson, Surveyor-Draftsman

[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

8-2349

U. S. Surveyor General.