

U. S. DEPARTMENT OF AGRICULTURE  
FOREST SERVICE

AUG 2-1917

**FIELD NOTES**

MAY 2 1918

OF

HOMESTEAD ENTRY SURVEY NO. 503

SITUATED IN THE SITGREAVES NATIONAL FOREST

ADMINISTRATIVE DISTRICT NO. 3

Approximately

In Section 35, unsurveyed, Township 11 N., Range 16 E.

of the

Gila and Salt River Base and Meridian.

State of

ARIZONA

Applicants for listing John T. McComas, and S. Bungler

Residence	Heber, Arizona		
Application No.	364 ✓	, dated	May 29, 1912 ✓
Application No.	517	, dated	April 10, 1914
List No.	3-2139 ✓	, dated	November 9, 1912 ✓

Applicant for survey <sup>Samuel</sup> S. Bungler,

Residence Heber Arizona

H. E. No. , dated , 19

Office  
Land District Phoenix, Arizona

Survey executed by R. P. A. Johnson, Surveyor - Draftsman  
(Forest Service Title.)

Under special instructions dated July 8, 1916 ✓

Survey commenced July 20, 1916

Survey completed July 22, 1916

Under Acts of June 11, 1906 and June 30, 1916

1

OATH OF ASSISTANTS

We hereby certify that we assisted R.P.A. Johnson  
*Surveyor Draftsman* [Forest Service Title.] in surveying all those  
 parts or portions of Homestead Entry Survey No. 503, 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.

Nelson A. Newman, Chairman

Chester A. Lee, Chairman

Subscribed and sworn to before me this fourteenth day of  
August, 1916.

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 instruc-  
 tions of the United States Surveyor General for Arizona, dated  
July 8, 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 Lot No 3-2139 dated November 9,  
1912 and a tract of land upon the application of  
S. Bunker  
Application, No. 517, dated April 10, 1914, for  
patent, under the Act of June 11, 1906,  
 the same to be known as Homestead Entry Survey No. 503,  
 situated within the Sitgreaves National Forest, in approximately  
unsurveyed Section 35, Township 11N, Range 16E, and  
unsurveyed Section ---, Township ---, Range ---,

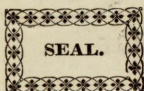
of the Gila and Salt River Basins and meridian, Arizona, and the  
 related retracements and resurveys and section subdivisions, which are  
 represented in the following field notes as having been surveyed by me;  
 and I further solemnly swear that all the corners of said survey have  
 been established 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.

DISTRICT OF COLUMBIA  
 CITY OF WASHINGTON

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

Subscribed and sworn to before me this 27th day of  
February, 1917.

Sylvester L. McFarlin  
 NOTARY PUBLIC, D. C.



Commission expires  
 June 23rd, 1918.

## SITGREAVES NATIONAL FOREST

STATE OF ARIZONA

Chains

Applicants for listing, John T. Mc Comas and S. Bungler;  
Applications No. 364 and 517, dated May 29, 1912 and  
April 10, 1914; List No. 3-2139, dated November 9, 1912.

Also a tract of adjoining unlisted land was included in  
this survey; the land is agricultural in character,  
was desired by claimant and will be listed as a basis  
for entry. Application No. 517, dated April 10, 1914.

Surveyed under special instructions from the Surveyor  
General for Arizona, dated July 8, 1916 and desig-  
nated as Homestead Entry Survey No. 503.

Situated in what will probably be, when surveyed, Sec.  
35, T. 11 N., R. 16 E., Gila and Salt River Base and  
Meridian, Sitgreaves National Forest, Arizona.

Surveyed under the Acts of June 11, 1906 and June 30,  
1916.

Survey commenced July 20, 1916 and executed with a Buff  
and Buff transit equipped with Smith solar attachment.

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

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

July 20, 1916, p.m.

I observe Polaris at cor. No. 1, hereinafter described.

The reading on the reference object is set at zero.

My watch is set for local mean time. Lat.  $34^{\circ} 18'$

$30''$  N., Long.  $110^{\circ} 37' 30''$  W., from special instruc-

tions from the Surveyor General, and later verified.

HOMESTEAD ENTRY SURVEY NO. 503

SITGREAVES NATIONAL FOREST

STATE OF ARIZONA

Chains	Telescope	Time	Horizontal Angle E. of Star
	Direct	7h. 11m. 10s.	1° 05' 30"
	Reversed	7h. 12m. 21s.	1° 06' 00"
		2)14h. 23m. 31s.	2° 11' 30"
	Mean	7h. 11m. 45s.	1° 05' 45"
	1.m.t. obsn., July 20, 1916,	7h. 11.8m.	
	1.m.t. U.C. Pol., July 21, 1916,	5h. 35.4m.	
		10h. 23.6m.	
	Long. correction		01.2m.
	Hour angle Pol. at obsn.,	10h. 22.4m.	
	Azimuth of Polaris	0° 33' 30" E.	
	Bearing of reference object,	N. 0° 32' 15" E.	

July 22, 1916., a.m.

I observe the altitude of the sun for azimuth at same station. The reading on the meridian determined by Polaris observation is set at zero and the sun was observed in the lower left and upper right quadrants of the field.

Telescope	Time	Horizontal Angle	Vertical Angle
Direct	7h. 06m. 13s.	80° 35' 00"	23° 02' 00"
Reversed	7h. 31m. 01s.	80° 06' 00"	22° 40' 00"
		Difference from Polaris meridian, 0° 01' 20".	

To the mean of these two observations, all the courses of this survey are referred.

July 21, 1916.

From cor. No. 1, hereinafter described.

Thence S. 6° 13' 22" E.

By traverse which appears at the end of these notes.

98.07 To Mile Cor. No. 104 of North Boundary of White Mountain

SITGREAVES NATIONAL FOREST

STATE OF ARIZONA

Chains

Indian Reservation, which is a sandstone 16 x 8 x 8 ins. marked N B W M I R 104 M on S. face, whence:

A yellow pine, 40 ins. dia., bears S. 37° 52' W., 85 lks. dist., scribed N B W M I R 104 M B T.

A yellow pine, 34 ins. dia., bears N. 27° 24' E., 56 lks. dist., scribed N B W M I R 104 M B T.

An oak, 20 ins. dia., bears S. 65° 25' E., 101 lks. dist., scribed N B W M I R 104 M B T.

A yellow pine, 16 ins. dia., bears S. 10° 51' W., 125 lks. dist., scribed N B W M I R 104 M B T.

BOUNDARIES OF CLAIM

Beginning at cor. No. 1.

Identical with cor. H-5 of the list survey, which is a sandstone 4 x 3 x 2 ins. above ground, marked and witnessed as described by the Forest Service. I destroy all trace of this list cor. Deposit a sandstone 4 x 3 x 2 ins. marked with a +, 14 ins. in the ground, over which set a sandstone 24 x 8 x 6 ins., chiseled + for the point, and 1 - H E S 503 on N. face; and raise a mound of stone 3 ft. base, 2 ft. high N. of cor., whence:

A yellow pine, 28 ins. dia., bears S. 59° 05' E., 21 lks. dist., scribed 1 H E S 503 + B T.

An oak, 6 ins. dia., bears S. 44° 25' W., 28 lks. dist., scribed 1 H E S 503 + B T.

Mile Post 104 on North Boundary of White Mountain Indian Reservation, heretofore described, bears S. 6° 13' 22" E., 98.07 chs. dist., by traverse which appears at the end of these notes.

Lat. 34° 18' 30" N., Long. 110° 37' 30" W., from special instructions from the Surveyor General, and later verified.

Mag. decl. at 7 a.m. 14° 20' E., mean mag. decl., 14° 16' E.

Chains	Thence N. 71° 04' W. Descend 20 ft. to creek, along edge of timber. Fence on line. 3.85 West Fork Buckskin Wash, 8 lks. wide, 4 ft. deep. Course SSW. Thence over level land, along edge of timber to cor. No. 2. 7.00 To cor. No. 2. Identical with cor. H-4 of the list survey, which is a sandstone 9 x 6 x 8 ins., above ground, marked and witnessed as described by the Forest Service. I destroy all trace of this list cor. Deposit a sandstone 4 x 3 x 2 ins. marked with a +, 10 ins. in the ground, over which set a sandstone 20 x 8 x 8 ins. (no longer stone available), chiseled + for the point and 2 - H. E. S 503 on NE. face. No stone available for mound, therefore dig pits 24 x 24 x 12 ins. crosswise on the claim lines 7 ft. dist.; and raise a mound of earth 4 ft. base, 2 ft. high NE. of cor., whence: A yellow pine, 16 ins. dia., bears S. 38° 45' W., 39 lks. dist., scribed 2 H. E. S 503 + B T. An oak, 22 ins. dia., bears S. 55° 55' E., 64 lks. dist., scribed 2 H. E. S 503 + B T.
	Thence N. 17° 27' W. Ascend gentle slope 10 ft. in brush to cor. Fence on line. 14.00 Cor. H-3 of the list survey, which is a sandstone 10 x 4 x 5 ins. above ground, marked and witnessed as described by the Forest Service. I destroy all trace of this list cor. Leave listed and enter unlisted land. 19.18 To cor. No. 3. Deposit a sandstone 5 x 4 x 1 ins. marked with a +, 9 ins. in the ground, over which set a sandstone 18 x 10 x 6 ins. (no longer stone available), chiseled + for

SITCREAVES NATIONAL FOREST

STATE OF ARIZONA

Chains	<p>the point and 3 - H E S 503 on E. face; and raise a mound of stone 3 ft. base, 2 ft. high E. of cor., whence:</p> <p>An oak, 10 ins. dia., bears N. 11° 04' E., 64 lks. dist., scribed 3 H E S 503 + B T.</p> <p>A yellow pine, 18 ins. dia., bears N. 57° 16' E., 91 lks. dist., scribed 3 H E S 503 + B T.</p> <hr/> <p>Thence N. 56° 56' E.</p> <p>In open, over level land. Fence on line.</p> <p>1.50 Foot ascent. Ascend 20 ft. to ridge in timber.</p> <p>5.45 Top ridge, bears N. and S. Descend 25 ft. to cor. in timber.</p> <p>10.57 To cor. No. 4.</p> <p>Identical with cor. H-2 of the list survey, which is a sandstone 6 x 3 x 5 ins. above ground, marked and witnessed as described by the Forest Service. I destroy all trace of this list cor. Deposit a sandstone 8 x 2 x 2 ins. marked with a +, 10 ins. in the ground, over which set a sandstone 20 x 10 x 9 ins., (no longer stone available) chiseled + for the point and 4 - H E S 503 on SE. face; and raise a mound of stone 3 ft. base, 2 ft. high SE. of cor., whence:</p> <p>A yellow pine, 18 ins. dia., bears N. 1° 36' E., 52 lks. dist., scribed 4 H E S 503 + B T.</p> <p>A yellow pine, 28 ins. dia., bears N. 79° 27' W., 47 lks. dist., scribed 4 H E S 503 + B T.</p> <hr/> <p>Thence S. 88° 44' E.</p> <p>Leave unlisted and enter listed land. Descend 25 ft. to bottom in edge of timber. Fence on line.</p> <p>2.35 Foot descent. Thence over open level land.</p> <p>3.92 Road, bears N. and SW.</p> <p>4.07 Corral fence, bears N. and along line.</p>
--------	--

Chains

5.08 Corral fence bears N.

6.10 West Fork Buckskin Wash, 15 lks. wide, 2 ft. deep,  
course N. Ascend 10 ft. to cor.

7.08 To cor. No. 5.

Identical with cor. H-1 of the list survey, which is a sandstone 6 x 3 x 4 ins. above ground, marked and witnessed as described by the Forest Service. I destroy all trace of this list cor. Deposit a sandstone 3 x 2 x 2 ins. marked with a +, 14 ins. in the ground, over which set a sandstone 24 x 8 x 8 ins., chiseled + for the point and 5 - H E S 503 on SW. face; and raise a mound of stone 3 ft. base, 2 ft. high SW. of cor., whence:

A yellow pine, 38 ins. dia., bears S. 68° 10' E.,  
89 lks. dist., scribed 5 H E S 503 + B T.

An oak, 8 ins. dia., bears S. 83° 39' W., 47 lks.  
dist., scribed 5 H E S 503 + B T.

---

Thence S. 0° 40' W.

Ascend 15 ft. along West slope in edge of timber.

Fence on line.

20.05 To cor. No. 6.

Identical with cor. H-6 of the list survey, which is a sandstone 6 x 10 x 5 ins. above ground, marked and witnessed as described by the Forest Service. I destroy all trace of this list cor. Deposit a sandstone 5 x 4 x 2 ins. marked with a +, 14 ins. in the ground, over which set a sandstone 24 x 12 x 8 ins., chiseled + for the point and 6 - H E S 503 on W. face; and raise a mound of stone 3 ft. base, 2 ft. high W. of cor., whence:

A yellow pine, 16 ins. dia., bears N. 4° 55' E.,  
35 lks. dist., scribed 6 H E S 503 + B T.



SITGREAVES NATIONAL FOREST

STATE OF ARIZONA

Chains

An oak, 8. ins. dia., bears S. 83° 39' W., 47

lks. dist., scribed 6 H E S 503 + B.T.

July 21, 1916.

July 22, 1916.

Thence S. 28° 16' W.

Ascend 15 ft. along West slope in edge of timber.

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

AREA

Area of listed land - - - - - 28.30 acres

Area of unlisted land - - - - - 2.36 acres

Total area - - - - - 30.66 acres

IMPROVEMENTS

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

A log house, 45 x 15 ft., the long side of which bears N. and S. and the NE. cor. of which bears S. 54° 40' W., 9.55 chs. dist. from cor. No. 5.

Value ----- \$300.00

Approximately one mile of wire fence.

Value ----- \$125.00

DESCRIPTION

This claim lies in the head waters of the West Fork of Buckskin Wash, approximately one mile N. of the Mogollon Rim.

The elevation is approximately 7200 ft. and the general slope is to the North. The claim consists of an open park with timber ridge to East and West and steep timber ridge to South.

The soil is a rich black loam of good depth and very fertile.

SITGREAVES NATIONAL FOREST

STATE OF ARIZONA

Chains

There is no water for irrigation. Water for domestic use is obtained from West Fork of Buckskin Wash.

Timber consists of a good stand of mixed oak and yellow pine, which occurs along boundary lines and on ridge in NW. portion of claim.

I saw no indications of mineral upon the claim.

CONFLICTS AND ADJOINING CLAIMS

There are no conflicting or adjoining claims.

Heber, Arizona, the nearest post office, is 12 miles to North and is reached by a poor wagon road. Holbrook, Arizona, the nearest railroad point and commercial center, is 60 miles to North and is reached by 12 miles of poor and 48 miles of good wagon road.

TRAVERSE

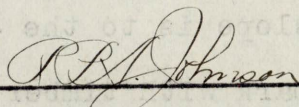
Cor.	Course	Dist.	N	S	E	W
1-2	N. 71° 04' W.	7.00	2.27			6.62 ✓
2-3	N. 17° 27' W.	19.18	18.30			5.75 ✓
3-4	N. 56° 56' E.	10.57	5.77		8.86 ✓	
4-5	S. 88° 44' E.	7.08		0.16 ✓	7.08 ✓	
5-6	S. 0° 40' W.	20.05		20.05 ✓		0.23 ✓
6-1	S. 28° 16' W.	7.00		6.17 ✓		3.32 ✓
		70.88	26.34	26.38	15.94	15.92 ✓

Error in Lat. and Dep.

.04 .02 ✓

Closing error, 1:1585.

Survey completed July 22, 1916.



Surveyor - Draftsman

HOMESTEAD ENTRY SURVEY NO. 503

SITGREAVES NATIONAL FOREST

STATE OF ARIZONA

Chains

Direct Solar, July 22, 1916, at cor. 1, H. E. S. 503  
 Lat. 34° 18' 30" N., Long. 110° 37' 30" W. Elev. 7200 ft.

Telescope	Time	Horizontal Angle	Vertical Angle	Pos. Sun
Direct	7h. 06m. 13s.	80° 35' 00"	23° 02' 00"	+°
Reversed	7h. 31m. 01s.	80° 06' 00"	22° 40' 00"	+°
	7h. 18m. 37s.	80° 20' 30"	22° 51' 00"	
			1' 46"	
			22° 49' 14"	

Decl. 20° 16' 54" N.

$$\text{Cos. Q.} = \frac{\sin. 20^\circ 16' 54''}{\cos. 34^\circ 18' 30'' \times \cos. 22^\circ 49' 14'' - \tan. 34^\circ 18' 30'' \times \tan. 22^\circ 49' 14''}$$

log. sin. 20° 16' 54" = 9.539873 ✓  
 log. cos. 34° 18' 30" = 9.916989 ✓  
 log. cos. 22° 49' 14" = 9.964601 ✓  
 9.658283 = log. .45528 ✓

log. tan. 34° 18' 30" = 9.834018 ✓  
 log. tan. 22° 49' 14" = 9.624059 ✓  
 9.458077 = log. .28713 ✓

Cos. Q. = .16815 ✓  
 Q. = 80° 19' 10" ✓

Difference in meridian, 0° 01' 20" ✓

Chains

Direct Solar, July 22, 1916, at cor. I, H. E. S. 203

Lat. 34° 18' 30" N., Long. 110° 31' 30" W., Elev. 7200 ft.

Telescope Time Horizontal Vertical  
Angle Angle

Direct Vn. Obj. 1.58 80° 35' 00" 23° 02' 00"

Reversed Vn. Obj. 0.1a 80° 06' 00" 23° 40' 00"

Vn. Obj. 3.7a 80° 30' 30" 23° 51' 00"

1' 45"  
23° 49' 14"

Decl. 20° 16' 54" N.

cos. 34° 18' 30" x cos. 23° 49' 14" =  
tan. 34° 18' 30" x tan. 23° 49' 14"

log. sin. 20° 16' 54" = 9.538373

log. cos. 34° 18' 30" = 9.818322

log. cos. 23° 49' 14" = 9.934301

9.538373 = log.

log. tan. 34° 18' 30" = 9.834018

log. tan. 23° 49' 14" = 9.634082

9.634082 = log.

cos. 20° 16' 54" = 9.971815

9.971815 = log.

Difference in meridian, 0° 01' 20"

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. 503, STATE OF ARIZONA.

CORNERS.	BEARING.	DISTANCE.	LATITUDES.		DEPARTURES.		DOUBLE M. D.	N. AREAS.	S. AREAS.
			NORTH.	SOUTH.	EAST.	WEST.			
1-2	N. 71° 04' W.	7.00	2.27			6.62	18 14	41 18 ✓	
2-3	N. 17° 27' W.	19.18	18 30 ✓			5 75	5 76	105 47 ✓	
3-4	N. 56° 56' E.	10.57	5 77		8 86		8 86	51 21 ✓	
4-5	S. 88° 44' E.	7.08		0 16 <sup>5</sup>	7 08		24 80		3 72 ✓
5-6	S. 0° 40' W.	20.05		20 05		0 23 <sup>4</sup>	31 64		634 07 ✓
6-1	S. 28° 16' W.	7.00		6 17		3 32	28 08		173 25 ✓
		70.88	26 34	26 38	15 94	15 92		197 86 ✓	811 04 ✓
			26 36	26 36	15 94	15 94			197 86 ✓
									613 18
									30 66 ✓ acres

37

EMH.

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. 503, STATE OF ARIZONA.

CORNERS.	BEARING.	DISTANCE.	LATITUDES.		DEPARTURES.	DOUBLE M. D.	N. AREAS.	S. AREAS.
			NORTH.	SOUTH.				
		Tie from cor. No. 1, H. E. S. 503 to M. B. W. M. I. R.						
	N. 28° 16' E.	7.00	6 17 ✓		3 32 ✓			
	N. 0° 40' W.	20.05	20 05 ✓			0 23 ✓		
	S. 62° 51' W.	6.12		2 79 ✓		5 45 ✓		
	S. 39° 16' W.	3.80		2 94 ✓		2 40 ✓		
	S. 11° 19' E.	57.19		56 08 ✓	11 22 ✓			
	S. 47° 50' E.	3.59		2 41 ✓	2 66 ✓			
	S. 25° 11' E.	15.00		13 57 ✓	6 38 ✓			
	S. 18° 26' E.	11.63		11 03 ✓	3 68 ✓		10.63	1.026533 ✓
	S. 3° 34' E.	10.35		10 33 ✓	0 64 ✓		10.63	1.988960 ✓
	S. 11° 03' W.	6.94		6 81 ✓		1 33 ✓	6° 13' 22"	9.037573
	S. 54° 21' W.	8.43		4 91 ✓		6 85 ✓		
	S. 19° 44' W.	4.54		4 27 ✓		1 53 ✓		1.988960
	S. 45° 11' W.	1.26		0 89 ✓		0 89 ✓	6° 13' 22"	9.997434 ✓
	S. 10° 23' E.	7.81		7 68 ✓	1 41 ✓		98.07 ✓	1.991526
			26 22 ✓	123 71 ✓	29 31 ✓	18 68 ✓		
				26 22	18 68			
				97 49 ✓	10 63 ✓			

APPROVAL

Office of the United States Surveyor General,

Phoenix, Arizona, *May 22*, 1918

The foregoing field notes of Homestead Entry Survey No.

503

executed by *R. P. A. Johnson, Surveyor-Draftsman*  
[Forest Service Title.]  
under his special instructions, dated *July 8*, 1916, 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.