

ORIGINAL

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U. S. DEPARTMENT OF AGRICULTURE

FOREST SERVICE

JAN 7 1919

FIELD NOTES

MAY 10 1919

MAR 15 1920

MAY 15 1920

OF

HOMESTEAD ENTRY SURVEY NO. 511

SITUATED IN THE TUSAYAN NATIONAL FOREST

ADMINISTRATIVE DISTRICT NO. 3

In Section 5 , unsurveyed, Township 29 N., Range 6 E.
In Section 6 , unsurveyed, Township 29 N., Range 6 E.
In Section 31 , unsurveyed, Township 30 N., Range 6 E.
In Section 32 , unsurveyed, Township 30 N., Range 6 E.
(T 29 N R 6 E is partly surveyed and accepted)

of the

Gila and Salt River Base and Meridian.

State of

ARIZONA

Applicant for listing George Wilson,
Residence Grand Canyon, Arizona
Application No. 515 , dated December 15 , 1915
List No. , dated , 19

Applicant for survey George Wilson,
Residence Grand Canyon, 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 March 10 , 1917
Survey commenced October 6 , 1917
Survey completed October 6 , 1917

Under Acts of June 11, 1906 and March 4, 1917

OATH OF ASSISTANTS

We hereby certify that we assisted R. P. Johnson
Surveyor Draftsman [Forest Service Title.] in surveying all those
 parts or portions of Homestead Entry Survey No. 511, 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 inconvenient to appear before an Officer to administer oaths to Assistants; hence, they were taken by the Surveyor.

Chas. Johnson, Chainman

Joe Harrell, Chainman

Subscribed and sworn to before me this eleventh day of
October, 1917.

R. P. Johnson
Surveyor Draftsman

OATH OF SURVEYOR

I, R. P. 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 March 10, 1917, 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. 515, dated December 15, 1915, for
Patent, under the Act of June 11, 1906,
 the same to be known as Homestead Entry Survey No. 511,
 situated within the Lucayan National Forest, in
 unsurveyed Section 31, Township 30N, Range 6E, and
 unsurveyed Section 32, Township 30N, Range 6E,
 unsurveyed Section 5, Township 29N, Range 6E,
 unsurveyed Section 6, Township 29N, Range 6E

of the Gila and Salt River Basins 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. Johnson
Surveyor Draftsman
 [Forest Service Title.]

Subscribed and sworn to before me this fifteenth day of
February, 1918.

Ethel M. Gutchall
 Notary Public



8-2349

Competition Survey

TUSAYAN NATIONAL FOREST

STATE OF ARIZONA

Chains Applicant for listing, George Wilson; Application No. 515, dated December 15, 1915.

Surveyed under special instructions from the Surveyor General for Arizona, dated March 10, 1917 and designated as Homestead Entry Survey No. 511.

Situated in what will probably be, when surveyed, Secs. 31 and 32, T. 30 N., R. 6 E., and in unsurveyed Secs. 5 and 6, T. 29 N., R. 6 E., (Partly surveyed and accepted), Gila and Salt River Base and Meridian, Tusayan National Forest, Arizona.

Surveyed under the Acts of June 11, 1906 and March 4, 1917 under the Cooperative Plan.

Survey commenced October 6, 1917 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 measurements made directly on the slope with a 500 link steel tape. The slope angles were determined with a clinometer.

October 6, 1917.

I observe the altitude of the sun for azimuth at cor.

No. 1 of this survey, hereinafter described. The

reading is set at zero and the meridian brought by sustained angulation from meridian established by

Polaris observations on October 5, 1917 at cor. No. 1

of H. E. S. 469. The sun was observed in the lower

left and upper right quadrants of the field. My watch

is set for local mean time. Lat. 35° 56' 13" N.,

Long. 111° 47' 12" W., from Forest Service Base Map

and U. S. G. S. San Francisco Mt. sheet.

TUSAYAN NATIONAL FOREST

STATE OF ARIZONA

Chains	Telescope	Time	Horizontal Angle	Vertical Angle
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Direct 8h. 4lm. 05s. 55° 36' 00" 31° 12' 00"

Reversed 8h. 4lm. 50s. 56° 02' 00" 30° 47' 00"

The two meridian differ 0° 01' 22" and to the mean of the two, all the courses of this survey are referred.

BOUNDARIES OF CIA 111

Beginning at cor. No. 1.

Also cor. No. 2 of H. E. S. 469.

Deposit a limestone 4 x 4 x 1 ins. marked with a +, 14 ins. in the ground, over which set a limestone 24 x 16 x 6 ins., chiseled + for the point, 1 - H E S 511 on

NNE. face and 2 - H E S 469 on ESE. face; and raise a mound of stone 2 ft. base, 1-1/2 ft. high ESE. of cor., whence:

A pinon, 10 ins. dia., bears S. 67° 10' W., 224 lks. dist., scribed 1 H E S 511 + B T.

A pinon, 8 ins. dia., bears S. 9° 35' W., 203 lks. dist., scribed 1 H E S 511 + B T.

A pinon, 10 ins. dia., bears S. 41° 10' W., 127 lks. dist., scribed 2 H E S 469 + B T.

A pinon, 6 ins. dia., bears S. 28° 42' W., 80 lks. dist., scribed 2 H E S 469 + B T.

Cor. for secs. 7, 8, 17 and 18, (Accepted),

T. 29 N., R. 6 E., which is a limestone 24 x 14 x 8 ins. in mound of stone, marked and wit-

nessed as described by the Surveyor General,

bears S. 4° 10' 17" E., 149.30 chs. dist., by

traverse which appears at the end of these

notes.

Lat. 35° 56' 13" N., Long. 111° 47' 12" W.; from Forest

Service Base Map and U. S. G. S. San Francisco Mt. sheet.

see page 7

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TUSAYAN NATIONAL FOREST

STATE OF ARIZONA

Chains Mag. decl. at 8:00 a.m., 15° 00' E. + Mean mag. decl.,
 14° 57' E.
 Thence N. 39° 58' W.
 Ascend 25 ft. along foot of NE. slope in timber and
 sagebrush.
 36.56 To cor. No. 2.
 At cor. of Fence. Fence bears N. 38° E. and S. 60° E.
 Deposit a sandstone 2 x 2 x 2 ins. marked with a +, 14
 ins. in the ground, over which set a sandstone 24 x 10
 x 8 ins., chiseled + for the point and 2 - H E S 511 on
 E. face; and raise a mound of stone 3 ft. base, 2 ft.
 high E. of cor., whence;
 A pinon, 16 ins. dia., bears S. 28° 04' W.,
 58 lks. dist., scribed 2 H E S 511 + B T.
 A pinon, 20 ins. dia., bears S. 62° 58' W.,
 63 lks. dist., scribed 2 H E S 511 + B T.

Thence N. 38° 15' E.
 Along fence in open.
 13.70 Arroyo, 10 lks. wide, banks 1 ft. high, course SE.
 Ascend 30 ft. to ridge in scattered timber.
 4.50 Fence cor., fence bears S. 60° E. Leave fence.
 7.50 Top of ridge, bears NW. and SE. Descend 45 ft. to
 cor. in scattered timber.
 22.08 To cor. No. 3.
 Also cor. No. 1 of H. E. S. 449.
 Deposit a limestone 4 x 3 x 2 ins. marked with a +, 14
 ins. in the ground, over which set a limestone 24 x 10
 x 6 ins., chiseled + for the point, 3 - H E S 511 on SSE
 face and 1 - H E S 449 on NE. face; and raise a mound
 of stone 3 ft. base, 2 ft. high NE. of cor., whence:
 A pinon, 8 ins. dia., bears N. 9° 01' W.,
 169 lks. dist., scribed 1 H E S 449 3 H E S

Chains

511 + B T.

A pinon, 8 ins. dia., bears S. 5° 40' W., 60 lks. dist., scribed 1 H E S 449 3 H E S 511 + B T.

U. S. L. M. No. 449, which is a limestone boulder in place 36 x 36 x 12 ins. above ground, chiseled + U S L M No 449 H E S on top, with mound of stone 7 ft. base, 5 ft. high, bears S. 16° 24' W., 1.30 chs. dist.

Thence S. 78° 26' E.

Descend 5 ft. across sagebrush flat to arroyo.

3.15 Road bears NNW. and SSE;

25.92 Arroyo, 15 lks. wide; banks 1 ft. high, course S.

Ascend 10 ft. to cor.

29.97 To cor. No. 4.

Also cor. No. 4 of H. E. S. 449.

Deposit a limestone 6 x 4 x 4 ins. marked with a +, 14 ins. in the ground, over which set a limestone 22 x 12 x 10 ins. (no longer stone available), chiseled + for the point, 4 - H E S 449 on NW. face and 4 - H E S 511 on SW. face; and raise a mound of stone 3 ft. base, 2 ft. high NW. of cor., whence:

A pinon, 6 ins. dia., bears N. 32° 01' E., 165.7 lks. dist., scribed 4 H E S 511 + B T.

A pinon, 12 ins. dia., bears S. 41° 26' E., 296.38 lks. dist., scribed 4 H E S 511 + B T.

A pinon, 10 ins. dia., bears S. 53° 30' E., 230 lks. dist., scribed 4 H E S 449 + B T.

A pinon, 12 ins. dia., bears N. 32° 29' E., 164 lks. dist., scribed 4 H E S 449 + B T.

Thence S. 12° 04' E.

Descend 25 ft. in open.

TUSAYAN NATIONAL FOREST

STATE OF ARIZONA

Chains 27.00 Trail bears NW. and SE.
 40.42 To cor. No. 5.
 On line 2-3 of H. E. S. 469.
 Deposit a sandstone 4 x 3 x 2 ins. marked with a +, 14 ins. in the ground, over which set a sandstone 24 x 12 x 5 ins., chiseled + for the point and 5 - H E S 511 on NW. face. No witnesses available, therefore dig pits 24 x 24 x 12 ins. crosswise on claim lines 8 ft. dist.; and raise a mound of earth 4 ft. base, 2 ft. high, 3-1/2 ft. dist. NW. of cor.
 Cor. No. 3 of H. E. S. 469, which is a limestone 12 x 6 x 10 ins. above ground, marked + on top and 3 - H E S 469 on SW. face, bears S. 89° 36' E., 17.74 chs. dist., by direct measurement.

Thence N. 89° 36' W.
 Along line 2-3 of H. E. S. 469.
 10.00 Arroyo, 15 lks. wide, banks 2 ft. high, course SE.
 17.45 A road bears NW. and SE.
 24.70 Arroyo, 15 lks. wide, banks 2 ft. high, course SE.
 28.00 To cor. No. 1, the place of beginning.

AREA

Total Area - - - - - 158.40 acres

IMPROVEMENTS

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

A one-room frame house, 12 x 9 ft., the long side of which bears N. and S. and the SW. cor. of which bears N. 83° 17' E., 5.00 chs. dist. from cor. No. 2.

Value ----- \$ 75.00

A mud and stone house, 20 x 15 ft., in bad condition

HOMESTEAD ENTRY SURVEY NO. 511

TUSAYAN NATIONAL FOREST

STATE OF ARIZONA

Chains

and not habitable, the SW. cor. of which bears N. 80° 30' E., 4.40 chs. dist. from cor. No. 2.

Value ----- \$ 25.00

Approximately 1/4 mile of wire fence in poor condition.

Value ----- \$ 15.00

DESCRIPTION

This claim lies near the center of Shad Park in the

Coconino Basin at an elevation of approximately 7000

ft. The tract is open park with low timber ridge in

the NW. portion and low timber ridges to the E. and W.

The soil is a clay loam of good depth and capable of

producing good crops.

There is no water for irrigation or domestic use.

The timber consists of approximately 10 acres of scattered

pinon and cedar along line 2-3, of value for fire wood only.

There is no cultivation.

I saw no indications of mineral upon this claim.

CONFLICTS AND ADJOINING CLAIMS

There are no conflicts. H. E. S. 449 of George Sheley

joins this claim on the North and H. E. S. 469 of David

L. Vance on the South.

Grand Canyon, Arizona, the nearest railroad point, post

office and market, lies 20 miles in a Westerly direc-

tion and is reached by good wagon road.

The claim consists of the following:

A one-room frame house, 12 x 9 ft., the long side of which

bears N. and S. and the W. cor. of which bears N. 80°

17' E., 5.00 chs. dist. from cor. No. 2.

Value ----- \$ 75.00

A mud and stone house, 20 x 15 ft., in bad condition

TUSAYAN NATIONAL FOREST

STATE OF ARIZONA

Chains

TRAVERSE

ansHO

Cor.	Course	Dist.	N	S	E	W
1-2	N. 39° 58' W.	36.56	28.02			23.48
2-3	N. 38° 15' E.	22.08	17.34		13.67	
3-4	S. 78° 26' E.	29.97		6.01	29.36	
4-5	S. 12° 04' E.	40.42		39.53	8.45	
5-1	N. 89° 36' W.	28.00	0.20			28.00
		157.03	45.56	45.54	51.48	51.48
			45.54		51.48	
Error in Lat. and Dep.			.02		.00	

Closing Error, 1:7852

TIE FROM COR. NO. 1 TO COR. OF SECS. 7, 8,
17 and 18, T. 29 N., Rs. 5 and 6 E.

Course	Dist.	N	S	E	W
S. 29° 04' E.	39.96		34.93	19.41	
S. 89° 41' E.	45.83		0.25	45.83	
S. 26° 44' W.	120.54		107.66		54.22
S. 1° 30' W.	6.06		6.06		0.16
			148.90	65.24	54.38
				54.38	
				10.86	

Tie is S. 4° 10' 17" E., 149.30 chs. dist.

Survey completed October 6, 1917.

R. L. Johnson

Surveyor - Draftsman

Chains

TRAVELER

Chains

Course	Dist.	W	E	S	N
1-3 N. 32° 58'	38.02				38.02
2-3 N. 38° 15'	32.08			13.87	
3-4 S. 78° 26'	32.27		8.01		32.30
4-5 S. 12° 04'	40.42			32.52	8.45
5-1 N. 52° 36'	38.00	0.20			38.00
Total		137.02	46.52	48.84	51.48
Error in lat. and dep.		46.54	51.48		0.00

Closing error, 1:7852.
The from com. no. 1 to com. of sec. 7, 8,
17 and 18, T. 29 N., R. 2 and 3 E.

Course Dist. W E S N

1. 29° 04'	32.28			24.22	12.41
2. 29° 41'	43.83		0.22		43.63
3. 26° 44'	120.54			107.66	54.22
4. 1° 30'	6.06	6.06			0.16
Total		148.30	6.28	62.34	54.38
Error		10.86	54.38		

The is 2.4° 10' 17" E., 149.30 chs. dist.
Survey completed October 6, 1914.

[Signature]
Surveyor - District

TUSAYAN NATIONAL FOREST

STATE OF ARIZONA

Chains

Direct Solar At Cor. No. 1,

October 6, 1917.

Lat. 35° 56' 13" N., Long. 111° 47' 12" W.,

Elevation 7,000 ft.

Telescope	Time	Horizontal Angle	Vertical Angle
Direct	8h 41m. 05s	55° 36' 00"	31° 12' 00"
Reversed	8h 41m 50s	56° 02' 00"	30° 47' 00"
Mean	8h 41m 27s	55° 49' 00"	30° 59' 30"
Corr. for refr.			01' 16"
			30° 58' 14"

Decl. 5° 03' 50" S.

$$\text{Cos. } Q. = \frac{\text{Sin. } 5^{\circ} 03' 50''}{\text{Cos. } 35^{\circ} 56' 13'' \times \text{cos. } 30^{\circ} 58' 14''} - \text{tan. } 35^{\circ} 56' 13'' \times \text{tan. } 30^{\circ} 58' 14''$$

log. sin. 5° 03' 50" =	8.9457960	
log. cos. 35° 56' 13" =	9.9083045	
log. cos. 30° 58' 14" =	<u>9.9331996</u>	
	9.1042919 =	.12714
log. tan. 35° 51' 13" =	9.8602556	
log. tan. 30° 58' 14" =	<u>9.7782681</u>	
	9.6385237 =	<u>.43503</u>
	Cos. Q. =	.56217

$$Q = 55^{\circ} 47' 38''$$

Diff. in obsn. 0° 01' 22"

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HOMESTEAD ENTRY SURVEY NO.

NATIONAL FOREST

STATE OF ALABAMA

Chains

Chains

Direct Solar Az. Cor. no. 1.
October 6, 1913.

Lat. 33° 55' 13" N., Long. 111° 47' 13" W.,
Elevation 7,000 ft.

Telescope	Time	Horizontal Angle	Vertical Angle
Direct	8h 41m. 00s	55° 58' 00"	31° 15' 00"
Reversed	8h 41m. 00s	55° 52' 00"	30° 47' 00"
Mean	8h 41m. 00s	55° 45' 00"	30° 31' 30"

Corr. for refraction.
30° 38' 14"

Decl. 5° 03' 30" E.

Cos. d. = $\frac{\sin. 5^{\circ} 03' 30''}{\cos. 30^{\circ} 31' 30''} = 0.0838048$
 $\times \cos. 30^{\circ} 31' 30'' = 0.01518$
 = $\sin. 30^{\circ} 58' 14''$

Log. sin. 5° 03' 30" = 9.947390
 Log. cos. 30° 31' 30" = 9.9288048
Log. cos. 30° 58' 14" = 9.9281998
 Diff. = 0.0006050

Log. tan. 25° 51' 13" = 9.6903066
Log. tan. 30° 58' 14" = 9.7782081
 Diff. = 0.0879015

Cos. d. = 0.9998474
 = $\sin. 5^{\circ} 47' 39''$

Diff. in obs. 0° 01' 38"

APPROVAL

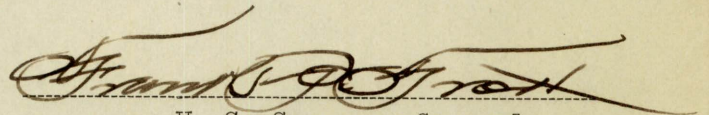
Office of the United States Surveyor General,

Phoenix, Arizona, March 17, 1920

The foregoing field notes of Homestead Entry Survey No.

511

executed by R. P. A. Johnson, Surveyor. Draftsman [Forest Service Title.]
under his special instructions, dated March 10, 1917, 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.