

U. S. DEPARTMENT OF AGRICULTURE

FOREST SERVICE

JAN. 7. 1919
MAY 10. 1919
MAY 15. 1920

FIELD NOTES

OF

HOMESTEAD ENTRY SURVEY NO. 469

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
(T. 29 N. R. 6 E. is partly Surveyed and Accepted)

of the

Gila and Salt River Base & Meridian.

State of Arizona.

*For inspection report
on this case see
HES 359*

Applicant for listing John Mc. Laughlin
Residence Grand Canyon, Arizona,
Application No. 242 , dated July 29 , 19 12
List No. 3-2099 , dated October 23 , 19 12

Applicant for survey David L. Vance
Residence Grand Canyon, Arizona.
H. E. No. 024097 , dated February 25, , 19 14
Office
Land District Phoenix, Arizona.

Survey executed by R. P. A. Johnson, Surveyor, Draftsman
[Forest Service Title.]
Under special instructions dated April 20 , 19 16
Survey commenced October 4 , 19 17
Survey completed October 5 , 19 17
Under Acts of June 11, 1906, and March 4, , 1917.

OATH OF ASSISTANTS

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

parts or portions of Homestead Entry Survey No. 469, 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 oaths to Assistants; hence, they were taken by the Surveyor.

Chas. Robinson Chairman

Joe Farrell Chairman

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

P. P. Johnson
Surveyor Draftsman

OATH OF SURVEYOR

I, P. 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 April 20, 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 List 3-2099, dated October 23, 1912, and a tract of land upon the Application of John McLaughlin, July 29, 1912

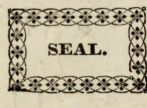
Application, No. 242, dated July 29, 1912, for Patent, under the Act of June 11, 1906, the same to be known as Homestead Entry Survey No. 469, situated within the Presbyterian National Forest, in unsurveyed Section 5, Township 29N., Range 6E., and unsurveyed Section 6, Township 29N., Range 6E.

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.

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

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

Ethel M. Gutchall
Notary Public



TUSAYAN NATIONAL FOREST

STATE OF ARIZONA

Chains Applicant for listing, John Mc. Laughlin; Application No. 242, dated July 29, 1912; List No. 3-2099, dated October 23, 1912; H. E. 024097, made in the Phoenix Land Office on February 25, 1914 by David L. Vance.

Also a tract of unlisted land adjoining claimant's entry was included in this survey; the land is agricultural in character, was desired by entryman and will be listed as a basis for amendment of his entry No. 024097, Surveyed under special instructions from the Surveyor General for Arizona, dated April 20, 1916, and designated as Homestead Entry Survey No. 469.

Situated in unsurveyed secs. 5 and 6, T. 29 N., R. 6 E., (partly surveyed and accepted), Gila and Salt River Base and Meridian, within the Tusayan National Forest, Arizona.

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

Survey commenced October 4, 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 4, 1916, P. M.

I observe Polaris for azimuth at cor. No. 1, hereinafter described. The reading on the reference object East of star is set at zero. My watch is set for local mean time.

Lat. 35° 55' 50" N. Long. 111° 46' 57" W. from Forest

TUSAYAN NATIONAL FOREST

STATE OF ARIZONA.

Chains Service Base map and U. S. G. S. San Francisco Mt. sheet.

Telescope Time Horizontal Angle

Direct 5h. 33m. 32s. 1° 14' 14"

Reversed 5h. 35m. 57s. 1° 16' 00"

2) 11h. 09m. 29s. 2° 30' 00"

Mean 5h. 34m. 44s. 1° 15' 00"

Astron. l.m.t. obsn. Oct. 4, p.m. 5h. 34.7m.

Astron. l.m.t. U.C. Pol. Oct. 5, a.m. 38.0m.

Hour angle Pol. at obsn. 7h. 3.3m.

Azimuth of Polaris 1° 20' 25" E.

Bearing of reference object N. 0° 05' 25" E.

October 4, 1916.

I observe Polaris for Azimuth at cor. No. 1 hereinafter described. The reading on the reference object East of star is set at zero.

Telescope Time Horizontal Angle

Direct 5h. 39m. 12s. 1° 15' 00"

Reversed 5h. 39m. 57s. 1° 16' 30"

2) 11h. 19m. 09s. 2° 31' 30"

Mean 5h. 39m. 34s. 1° 15' 45"

Astron. l.m.t. obsn. Oct. 4 P. M. 5h. 39.6m.

Astron. l.m.t. Pol. Oct. 5 A. M. 38.0m.

Hour angle Pol. at obsn. 6h. 58.4m.

Azimuth of Polaris 1° 20' 54" E.

Bearing of reference object N. 0° 5' 09" E.

The mean of these two observations is N. 0° 5' 17"

and to the corresponding Meridian all courses of this survey are referred.

October 5, 1917.

BOUNDARIES OF CLAIM

Beginning at cor. No. 1.

Identical with cor. H-2 of the list survey, a limestone 14 x 8 x 6 ins., surrounded by a mound of stone, marked

TERRITUSAYAN NATIONAL FOREST

STATE OF ARIZONA

Chains

and witnessed as described by the Forest Service.

destroy all trace of this list cor. and at same point

deposit a limestone 4 x 3 x 2 ins. marked with a + 15

ins. in the ground, over which set a limestone 25 x 12

x 8 ins. chiseled + for the point and 1 - H E S 469 on

NE. face; and raise a mound of stone 2 ft. base, 1-1/2

ft. high NE. of cor., whence:

A Pinon, 8 ins. dia., blazed and scribed

1 H E S 469 + B T, bears N. 34° 41' E.,

38 lks. dist.

A Pinon, 6 ins. dia., blazed and scribed

1 H E S 469 + B T, bears N. 59° 12' W.

26 lks. dist.

(Accepted),

Cor. to secs. 7, 8, 17 and 18, T. 29 N.,

R. 6 E., a limestone 24 x 14 x 8 ins., sur-

rounded by a mound of stone 4 ft. base,

1-1/2 ft. high, marked and witnessed as

described by the Surveyor General, bears

S. 4° 17' 25" W., 114.29 chs., by traverse

which appears at the end of these notes.

U.S.L.M. No. 449 H.E.S., 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 N. 20° 31' 27" W. 84.40 chs. dist. by

traverse which appears at the end of these

notes.

Lat. 35° 55' 50" N., Long. 111° 46' 57" W. from Forest

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

Mag. decl. at 12h. 00m. noon., 1.m.t., 15° 00' E. Mean

mag. decl., 15° 02' E.

Thence N. 29° 04' W.

Desc. 20 ft. through pinon and juniper on N. slope.

TUSAYAN NATIONAL FOREST

STATE OF ARIZONA

Chains.	Description	Chains
5.00	Foot of desc., asc. 35 ft. over E. slope.	
12.00	Rimrock, bears N. and S. Enter flat, slopes E.	
25.00	Rimrock, bears NW. and SE. Desc. 30 ft. over NE. slope.	
35.00	Foot of slope bears NW. and ESE. Enter flat.	
39.96	To cor. No. 2. Also cor. No. 1 of H.E.S. 511. Identical with cor. H-3 of List 3-2099, a limestone 8 x 8 x 6 ins. above ground, marked and witnessed as described by the Forest Service. I destroy all trace of this list cor. Deposit a limestone 4 x 4 x 1 ins. marked with a cross, 14 ins. in the ground, over which set a limestone 24 x 16 x 6 ins., chiseled + for the point and 2-HES 469 on ESE, and 1-HES 511 on NNE. faces; and raise a mound of stone 2 ft. base, 1-1/2 ft. high ESE. of cor. whence: A Pinon, 10 ins. dia., blazed and scribed 2 H E S 469 + B T, bears S. 41° 10' W., 127 lks. dist. A Pinon, 6 ins. dia., blazed and scribed 2 H E S 469 + B T, bears S. 28° 42' W., 80 lks. dist. A Pinon, 10 ins. dia. blazed and scribed 1 H E S 511 + B T, bears S. 67° 10' W., 224 lks. dist. A Pinon, 8 ins. dia. blazed and scribed 1 H E S 511 + B T, bears S. 9° 35' W., 203 lks. dist.	
	Thence S. 89° 36' E.	
	Across sage brush flat, with gentle slope to SSE. along line 1-5 of H E S 511.	
3.30	Arroyo, 15 lks. wide, 2 ft. deep, course SE.	
10.55	Road bears NNW. and SSE.	
18.00	Arroyo, 15 lks. wide, 2 ft. deep, course SSE.	

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STATE OF ARIZONA

Chains	Asc. 10 ft. over gentle SW. slope.
28.00	Cor. No. 5 H E S 511 a sandstone 12 x 5 x 10 ins. above ground marked + on top 5 H E S 511 on NW. face with pits and mound of earth.
38.00	Navajo trail, Grand Canyon to Tuba City, bears NNW. and SSE.
40.00	Cor. H-4 of List. 3-2099, a limestone 6 x 6 x 6 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.
45.74	To cor. No 3. Deposit a limestone 4 x 2 x 2 ins. marked with a + 12 ins. in the ground, over which set a limestone 18 x 12 x 6 ins. (no larger stone available), chiseled + for the point and 3 - H E S 469 on SW. face; No witness available, therefore dig pits 24 x 24 x 12 ins. crosswise on this and the succeeding course 7 ft. dist.; and raise a mound of earth 4 ft. base, 1-1/2 ft. high SW. of cor.
<hr/>	
	Thence S. 29° 14' E.
	Desc. 30 ft. over gentle SSW. slope.
34.60	Navajo trail, Grand Canyon to Tuba City, bears ESE. and WNW.
34.75	Arroyo, 20 lks. wide, 2 ft. deep, course ESE. Asc. 5 ft. over gentle N. slope.
39.98	To cor. No. 4 Deposit a limestone 3 x 3 x 3 ins. marked with a cross, 14 ins. in the ground, over which set a limestone 24 x 18 x 6 ins., chiseled + for the point and 4 - H E S 469 on WNW. face. No witnesses available, therefore dig pits 24 x 24 x 12

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Chains ins. crosswise on this and the succeeding course 7 ft. dist.; and raise a mound of earth 4 ft. base, 1-1/2 ft. high WNW. of cor.

Thence N. 89° 41' W.
Over sagebrush flat;

5.89 Cor. H-1 of List 3 - 2099 and F. S. M. a limestone 6 x 6 x 6 ins. above ground, marked and witnessed as described by the Forest Service. I destroy all trace of this list cor. and F. S. M.
Leave unlisted and enter listed land.

5.90 Fence cor., fences bear S. and W. along line,

15.42 Fence cor., fences bear E. and W. along line and N. and S. Enter cultivated tract.

40.56 Fence cor., fences bear E. and W. along line and N. and S. Leave cultivated tract.

40.80 Road bears N. and S. Asc. 30 ft. over E. slope.

45.72 Fence cor., fences bear E. along line and S.

45.83 To cor. No. 1 and place of beginning.

AREA

Listed Area - - - - -	139.04 acres
Unlisted Area - - - - -	<u>20.22</u> acres
Total Area - - - - -	159.26 acres

IMPROVEMENTS

The improvements made upon this claim consist of the following:

A stone dugout, with dirt roof, 14, x 10 ft., the long sides extending E. and W. into the hill, and the SW. cor. of which bears from cor. No. 1, N. 15° 06' E., 14.02 chs dist.

Value ----- \$100.00

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STATE OF ARIZONA

Chains Approximately 1 mile of wire fence.

value-----\$200.00

DESCRIPTION

This claim is situated in Shad Park, which is tributary to Coconino Basin.

The soil is a clay loam and at the time of survey a fenced area of approximately 25 acres was under cultivation.

There is no water on the claim.

There is a little juniper and pinon timber on the West side of the place, but owing to distance from market it has no commercial value.

I saw no indication of mineral upon the ground.

CONFLICTS AND ADJOINING CLAIMS

There are no conflicts. Shad Park Administrative Site joins this claim on the South. H.E.S. 511 of George Wilson joins this claim on North. The homestead claim of George Sheley, H.E.S. No. 449, lies 1/2 mile N. of this claim.

Grand Canyon, Arizona, the nearest railroad, and market point and post office, lies in a Westerly direction and is reached by 20 miles of good wagon road.

TRAVERSE

Cor.	Course	Dist.	N.	S.	E.	W.
1-2	N. 29° 04' W	39.96	34.93			19.41
2-3	S. 89° 36' E	45.74		.32	45.74	
3-4	S. 29° 14' E	39.98		34.89	19.52	
4-1	N. 89° 41' W	45.83	.25			45.83
		171.51	35.18	35.21	65.26	65.24
			35.18		65.24	
	Error in Lat. and Dep.		.03		.02	
	Closing error, 1:4763					

TUSAYAN NATIONAL FOREST

STATE OF ARIZONA

Chains

TRaverse for Tie

Cor. No. 1 to Cor. Sec. 17, 8, 17 and 18., T. 29 N. R. 5 and 6 E.

Cor.	Course	Dist.	N.	S.	E.	W.
1-4	S. 89° 41' E.	45.83		.25	45.83	
4-TP	S. 26° 44' W	120.54		107.66		54.22
TP-Sec	S. 1° 30' W	6.06		6.06		.16
				113.97	45.83	54.38
						45.83
						8.55

Resultant course S. 4° 17' 25" W. 114.29

Traverse for Tie

Cor. No. 1 to U.S.L.M. 449 H.E.S.

Cor.	Course	Dist.	N.	S.	E.	W.
1/469-1/511	N. 29° 04' W	39.96	34.93			19.41
1/511-2/511	N. 39° 58' W	36.56	28.02			23.48
2/511-1/449	N. 38° 15' E	22.08	17.34		13.67	
1/449-U.S.L.M. 449	S. 16° 24' W	1.30		1.25		.37
			80.29	1.25	13.67	43.26
			1.25			13.67
			79.04			29.59

Resultant course N. 20° 31' 27" W. 84.40

Survey completed October 5, 1917.

R. P. Johnson
Surveyor draftsman

Cor.	Course	Dist.	N.	S.	E.	W.
1-8	N. 39° 04' W	39.96	34.93			19.41
8-3	N. 29° 04' W	39.96	34.93			19.41
3-4	N. 39° 58' W	36.56	28.02			23.48
4-1	N. 38° 15' E	22.08	17.34		13.67	
			80.29	1.25	13.67	43.26
			1.25			13.67
			79.04			29.59

Closing error 1.4753

DIRECTIONS.—1. Carry out calculations to two decimals only.
 2. In balancing Latitudes and Departures do not obliterate or change the original figures. Do not change the footing of the original figures, but put below them the corrected footing in red ink. 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. I. 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. 469, STATE OF ARIZONA

CORNERS.	BEARING.	DISTANCE.	LATITUDES.		DEPARTURES.		DOUBLE M. D.	N. AREAS.	S. AREAS.
			NORTH.	SOUTH.	EAST.	WEST.			
			Traverse of Unlisted Area.						
	S. 89° 36' E.	5.74		04	5 74		5 74		23
	S. 29° 14' E.	39.98		34 89	19 52		31 00	1081	28
	N. 89° 41' W.	5.89	03			5 89	44 63		
	N. 29° 02' W.	39.91	34 89			19 37	19 37		
			34 92	34 93	25 26	25 26	677 16	1081	51
			34 92	34 92	25 26	25 26	677 16	677	16
								20/ 404	35
								20	22
									Acres.

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DIRECTIONS.—1. Carry out calculations to two decimals only.
 2. In balancing Latitudes and Departures do not obliterate or change the original figures, but put below them the corrected footing in red ink.
 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 should be proportional to the lengths of the lines.
 3. In calculations of bearings 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. 469, STATE OF ARIZONA

CORNERS.	BEARING.	DISTANCE.	LATITUDES.		DEPARTURES.		DOUBLE M. D.	N. AREAS.	S. AREAS.
			NORTH.	SOUTH.	EAST.	WEST.			
1-2	N. 29° 04' W.	39.96	34.93			19.41	19.41	677.99	
2-3	S. 89° 36' E.	45.74		31 32 33 34 35	73 74	45.74	45.73		14.18
3-4	S. 29° 14' E.	39.98	26 25	34 35	19.52		110.98		3870.98
4-1	N. 89° 41' W.	45.83			45.83	84.66	84.66	22.01	
		171.51	35.18 35.19	35.21 35.19	65.26 65.25	65.24 65.25		700.00	3885.16 700.00
								20/ 3185.16	159.26 Acres. <i>ET</i>

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APPROVAL

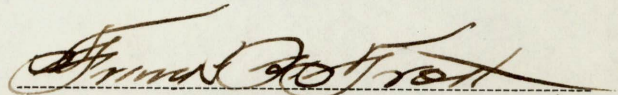
Office of the United States Surveyor General,

Phoenix, Arizona, March 17, 1920

The foregoing field notes of Homestead Entry Survey No.

469

executed by R. P. A. Johnson, Surveyor-Draftsman
[Forest Service Title.]
under his special instructions, dated April 20, 1916, 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.