

NOV 23 1918
27 1920

145
L.R.

U. S. DEPARTMENT OF AGRICULTURE

FOREST SERVICE

DEC 26 1919
MAR 26 1920

FIELD NOTES

OF

HOMESTEAD ENTRY SURVEY NO. 509

SITUATED IN THE APACHE NATIONAL FOREST

ADMINISTRATIVE DISTRICT NO. 3

In Section 19, un surveyed, Township 4 S., Range 32 E.
In Section 20, unsurveyed, Township 4 S., Range 32 E.
In Section 29, unsurveyed, Township 4 S., Range 32 E.
In Section 30, unsurveyed, Township 4 S., Range 32 E.

of the

Gila and Salt River Base and Meridian.

State of

ARIZONA.

✓ Applicant for listing Jesse I. Phillips
Residence Mule Creek, Arizona
✓ Application No. 372, dated August 16, 19 15
✓ List No. 3-3734, dated December 31, 19 15

✓ Applicant for survey Sylvester Phillips
Residence Mule Creek, Arizona
✓ H. E. No. 030250, dated May 15, 19 16
Office
Land District Phoenix, Arizona.

Survey executed by Lee C. Daves Surveyor - Forest Service
[Forest Service Title.]
Under special instructions dated February 9, 1917
Survey commenced March 6, 19 17
Survey completed March 8, 19 17
Under Acts of June 11, 1906 and August 11, 1916.

OATH OF ASSISTANTS

We hereby certify that we assisted Lee C. Daves Surveyor - Forest Service in surveying all those parts or portions of Homestead Entry Survey No. 509, 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 oath to assistant; hence it was taken by the surveyor.

P. J. Ambrose, Chairman

Subscribed and sworn to before me this eighth day of March, 1917.

Lee C. Daves Surveyor - Forest Service

OATH OF SURVEYOR

I, Lee C. Daves 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 February 9, 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 List No. 3-3734, dated December 31, 1915, and a tract of land upon the application of Sylvester Phillips,

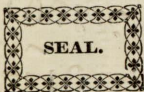
Application PATENT, No. 372, dated August 16, 1915, for the same to be known as Homestead Entry Survey No. 509, situated within the APACHE National Forest, in un surveyed Section 19, Township 4 S., Range 32 E., and un surveyed Section 20, Township 4 S., Range 32 E. and, un surveyed Section 29, Township 4 S., Range 32 E.

of the Gila and Salt River 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.

Lee C. Daves Surveyor - Forest Service [Forest Service Title.]

Subscribed and sworn to before me this fourth day of September, 1918.

Ethel G. Myers Notary Public.



8-2349

My Commission expires March 17, 1921.

APACHE NATIONAL FOREST

STATE OF ARIZONA

Chains

Applicant for listing, Jesse I. Phillips; Application No. 372, dated August 16, 1915; List No. 5-3734, dated December 31, 1916; H. E. 030250 made in the Phoenix Land Office on May 15, 1916, by Sylvester Phillips.

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.

This is therefore a composite survey.

Surveyed under special instructions from the Surveyor General for Arizona, dated February 9, 1917, and designated as Homestead Entry Survey No. 509.

Situated in what will probably be, when surveyed, Secs. 19, 20, and 29, T. 4 S., R. 32 E., Gila and Salt River Base and Meridian, Apache National Forest, Arizona.

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

Survey commenced March 6, 1917; and executed with a Buff and Buff transit No. 9702, 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.

March 6, 1917.

At Cor. No. 1 of this claim, hereinafter described, in latitude $33^{\circ} 04' 32''$ N., Long. $109^{\circ} 04' 59''$ W.,

Chains from U. S. G. S. Topographic Sheet of the Morenci
Quadrangle.

I observe Polaris for azimuth as follows:

Watch is 16m. 42s. fast of local mean time.

Angles read from Star to Mark. (Mark East of Star.)

Reference mark is a stake firmly set in the ground about
20 chs. North, by solar attachment from this station.

Circle	l.m.t.	On Star	On Mark	Angle
1 W	5h. 33m. 10s.	179° 04' 00"	180° 00' 00"	0° 56' 00"
2 E	5h. 45m. 40s.	359° 04' 30"	0° 01' 00"	56' 30"
3 E	5h. 47m. 20s.	359° 04' 45"	01' 00"	56' 15"
4 W	5h. 49m. 00s.	179° 01' 30"	180° 00' 00"	58' 30"

Greenwich mean time U. C. Pol., March 6, 1917.

2h. 34m. 5 p.m.

Correction for long. 1.2

l.m.t. U. C. Polaris, 2h. 33.'3 p.m.

Watch time of obsn. 5h.33.'2 45.'7 47.'3 49.'0 p.m.

Watch Corr. 16.'7 16.'7 16.'7 16.'7

l.m.t. of obsn. 5h.16.'5 29.'0 30.'6 32.'3

l.m.t. of U. C. Pol. 2h.33.'3 33.'3 33.'3 33.'3

Hour Angle at obsn. 2h.43.'2 55.'7 57.'3 59.'0

Azimuth of Star 179° 06.'3 03.'3 02.'8 02.'4

Angles 0° 56.'0 56.'5 56.'25 58.'5

Azimuth of Mark 180° 02.'3 59.'8 59.'05 00.'9

Means are 180° 01.'05 179° 59'.975

Difference bet. obsns. is 1.'07

Accept azimuth as 180° 00.'0 or a North bearing.

From this meridian all courses of this survey are
referred by angulation.

March 6, 1917.

March 7, 1917, worked on H. E. S. 486.

APACHE NATIONAL FOREST

STATE OF ARIZONA

Chains

BOUNDARIES OF CLAIM

March 8, 1917.

Beginning at Cor. No. 1.

Identical with cor. H-7 of the list survey, which is a basalt stone 14 x 8 x 8 ins. above ground, marked and witnessed as described by the Forest Service. I destroy all trace of this list cor.

Deposit a basalt stone 9 x 8 x 7 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 1 H E S 509 on SE. face; and raise a mound of stone 4 ft. base, 2 ft. high, SE. of cor., whence:

A live oak, 5 ins. dia., bears N. 71° 35' E.,
32 lks. dist.

A juniper 6 ins. dia., bears S. 38° 15' E.,
58 lks. dist.

Each marked 1 H E S 509 + B.T

U.S.L.M. No. 486 H.E.S., a limestone in place showing 32 x 24 x 20 ins. above ground, marked + on top and U S L M No 486 H E S on N. face in North base of mound of stone, 7 ft. base, 6 ft. high, bears N.0°03'16" W., 94.65 chs. dist. by traverse which appears at the end of these notes. A flag on this monument is plainly visible and bears N.0° 03' W., which checks the computed traverse.

Mag. decl. at 6.10 a.m. is 13° 30' 00" E., which gives the mean mag. decl. as 13° 28' 00" E.

Lat. 33° 04' 32" N., Long. 109° 04' 59" W., from U.S.G.S. Topographic Sheet of Morenci Quadrangle.

Thence S. 79° 00' E.

Desc. 30 ft. to cor. through dense low oak brush.
13.50 Dry wash, 50 lks. wide, course NE.

APACHE NATIONAL FOREST

STATE OF ARIZONA

Chains
14.00

To Cor. No. 2.

Point for cor. falls on a limestone boulder in place, showing 32 x 24 x 24 ins. above ground. I mark same stone + on top and 2 H E S 509 on SW. face; and raise a mound of stone 4 ft. base, 2 ft. high, SW. of cor., whence:

A pine 26 ins. dia., bears N. 26° 25' E.,
11 1/4 lks. dist.

A pine 7 ins. dia., bears S. 44° 55' W.,
38 lks. dist.

Each marked 2 H E S 509; + B T

Cor. No. 7: H E S 486, a basalt stone 10 x 6 x 10 ins. above ground, marked + on top and 7 H E S 486 on NE. face, with mound of stone 4 ft. base, 2 ft. high NE. of cor., bears N. 43° 00' W., 4.24 chs. dist. by direct measurement.

Cor. H-1 of the list survey, which is a basalt stone 12 x 8 x 4 ins. above ground, marked and witnessed as described by the Forest Service bears N. 30° W., 3 lks. dist. I destroy all trace of this list corner.

Cor. H-2 of the list survey, which is a basalt stone 16 x 8 x 4 ins. above ground, marked and witnessed as described by the Forest Service, bears S. 33° 45' W., 9.60 chs. dist. I destroy all trace of this list cor.

Thence S. 15° 08' E.

Over unlisted land, through pine and juniper timber and oak brush.

63.10 To Cor. No. 3.

A pine tree 9 ins. in dia. in place for cor., blazed and scribed + on each side for line and 3 H E S 509

Chains on W. face; dig pits 24 x 24 x 12 ins. on each line
7 ft. dist.; and raise a mound of earth 4 ft. base,
2 ft. high W. of cor., whence:

A pine 6 ins. dia., bears N. 8° 40' E., 112 lks.

A pine 8 ins. dia., bears S. 38° 45' E., 100 lks.

Each marked 3 H E S 509 + B T.

Cor. H-3 of the list survey, which is a limestone
18 x 5 x 4 ins. above ground, marked and wit-
nessed as described by the Forest Service,
bears S. 38° W., .5 lks. dist. I destroy all
trace of this list cor.

Thence S. 37° 41' W.

Along East edge of cultivated land, and West edge
of young pine timber. Over listed land.

20.75 To cor. No. 4.
Deposit a sandstone 3 x 2 x 2 ins. marked with a +
28 ins. in the ground, over which set a pitchpine
post 38 in. long, 7 in. square (no suitable stones
available for cor.) marked 4 H E S 509 on NW. face;
and raise a mound of stone 4 ft. base, 2 ft. high
NW. of cor., whence:

A juniper 8 ins. dia., bears S. 50° 25' E., 32
lks. dist.

A pine 6 ins. dia., bears N. 4° 30' W., 10 lks.
dist.

Each marked 4 H E S 509 + B T.

Cor. H-4 of the list survey, which is a lime-
stone 18 x 10 x 8 ins. above ground, marked
and witnessed as described by the Forest Ser-
vice bears S. 37° 41' W., 125 lks. dist. I
destroy all trace of this list cor.

6.3

APACHE NATIONAL FOREST

STATE OF ARIZONA.

Chains Note: A small area along the south boundary was eliminated to keep the claim within the mile limit.

Thence West.

Through dense oak brush and scattering young pine timber. Over listed land.

Arroyo, 30 lks. wide 5 ft. deep (dry) course North.

To cor. No. 5.

Deposit a basalt stone 8 x 4 x 3 ins. marked with a + 14 ins. in the ground, over which set a limestone 24 x 12 x 10 ins., chiseled for the point and 5 H E S 509 on NE. face; and raised a mound of stone 4 ft. base, 2 ft. high NE. of cor.; whence:

A live oak 5 ins. dia., bears N. 42° 10' E., 17 lks. dist.

A juniper 5 ins. dia., bears N. 70° 20' W., 50 lks. dist.

Each marked 5 H E S 509 + B T.

Cor. H-5 of the list survey, which is a limestone 12 x 4 x 4 ins. above ground, marked and witnessed as described by the Forest Service, bears S. 9° 00' E., 176 lks. dist. I destroy all trace of this list cor.

Thence N. 88° 54' W.

Through oak brush with scattering young pine timber.

Over unlisted land.

Cor. H-6 of the list survey, which is a sand-

stone 16 x 8 x 4 ins. above ground, marked and

witnessed as described by the Forest Service, bears East 104 lks. dist. I destroy all trace

of this list cor.

To cor. No. 1, the point of beginning.

Chains

AREA

Listed Area -----	102.40 Acres
Unlisted Area -----	22.31 Acres
Total Area -----	124.71 Acres

IMPROVEMENTS

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

A well 25 ft. deep, 6 ft. in dia., with 12 ft. of water, the center of which bears S. 53°35'W., 3.12 chs. dist. from cor. No. 3.

Value ----- \$100.00

A tent house 7 x 9 ft., the long side extending E. and W., the NE. cor. of which bears S. 50° 00' W., 6.10 chs. dist. from Cor. No. 3.

Value ----- \$20.00

DESCRIPTION

This claim is situated in Big Lue Canyon.

The soil is gravelly and fairly well adapted to agriculture.

There is about 20 acres in cultivation. The balance is covered with Oak brush and some few young pine trees.

No timber of commercial value on the claim.

Water is obtained for domestic purposes from a well on the southern part of the claim.

No indication of mineral was observed on the land.

The entryman was present at time of survey and agreed to

the changes as made. Copy of his signed statement is here-
with attached.

CONFLICTS AND ADJOINING CLAIMS

Chains

No conflicts nor adjoining claims. H. E. S. 486 lies approximately 4 chs. north.

TRAVERSE

Cor.	Course	Dist.	N	S	E	W	
1-2	S. 79°00' E.	14.00		2.67	13.74		
2-3	S. 15°08' E.	63.10		60.91	16.47		
3-4	S. 37°41' W.	20.75		16.42		12.68	
4-5	West	5.00				5.00	
5-1	N. 8°54' W.	80.90	79.93			12.52	
			183.75	79.93	80.00	30.21	30.20
				79.93	30.20		
Error in Lat. and Dep.				.07	.01		

Closing error 1:2599

TIE

Cor. No. 1 H. E. S. 509 to U. S. L. M.
No. 486 H. E. S.

Course	Dist.	N	S	E	W
S. 79°00'E.	14.00		2.67	13.74	
N. 43°00'W.	4.24	3.10			2.89
N. 86°35'E.	4.67	.28		4.66	
North	36.49	36.49			
N. 76°33'W.	10.19	2.37			9.91
N. 41°56'E.	17.06	12.69			11.40
S. 61°18'W.	6.80		3.27		5.96
N. 14°20'E.	47.13	45.66		11.67	
		100.59	5.94	30.07	30.16
		5.94			30.07
		94.65			.09

Bearing is N. 0°03'16"W. 94.65 chs. dist.

Survey completed March 8, 1917.

L. C. Daves

Surveyor - Forest Service,

- DIRECTIONS.—1. Carry out calculation 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. Put the corrected figure or figures above in red ink. Do not change the footing of the original figures. 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.

TABLE AND CALCULATIONS OF HOMESTEAD ENTRY SURVEY NO. 509, STATE OF APACHE

CORNERS.	BEARING.	DISTANCE.	LATITUDES.		DEPARTURES.		DOUBLE M. D.	N. AREAS.	S. AREAS.
			NORTH.	SOUTH.	EAST.	WEST.			
1-2	S. 79°00' E.	14.00		2 66 2 67	13 74	13 74		36 55	
2-3	S. 15°08' E.	63.10		60 89 16 41	16 47	43 95		2676 12	
3-4	S. 37°41' W.	20.75		16 42		47 74		783 41	
4-5	West	5.00	79 96			30 06			
5-1	N. 8°54' W.	80.90	79 93			12 53	1001 90		
		183.75	79 93	80 00	30 21	30 20		3496 08	
			79 96	79 96	30 21	30 21		1001 90	
								20) 2494 18	
								124 71	
								Acres	
	Closing error 1:2599			72 = 49 12 = 1 50 = 7.0707					
				18375 70707					

155

(Copy)

March 9th, 1917.

I, Sylvester Phillips, hereby agree to the survey of my homestead, number 509, as made on the 8th day of March, 1917, by Forest Service Surveyor Lee C. Daves, 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 an addition on the East, and the straightening of the West boundary.

(Sgd.) P. J. Ambrose,

Witness

(Sgd.) Sylvester Phillips,

Claimant,

APPROVAL

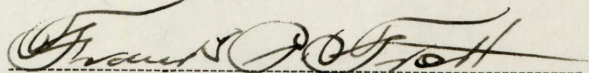
Office of the United States Surveyor General,

Phoenix, Arizona, April 24, 1920

The foregoing field notes of Homestead Entry Survey No.

509

executed by *Lee C. Daves, Surveyor,* [Forest Service Title.]
under his special instructions, dated *February 9*, 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.