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ORIGINAL

U. S. DEPARTMENT OF AGRICULTURE
FOREST SERVICE

61
APR 11 1920
APR 8 1919
APR 22 1920

FIELD NOTES

OF

HOMESTEAD ENTRY SURVEY NO. 547

SITUATED IN THE SITGREAVES NATIONAL FOREST

ADMINISTRATIVE DISTRICT NO. 3.

In Section 10 , un surveyed, Township 12 N., Range 16 E.
In Section 11 , un surveyed, Township 12 N., Range 16 E.

of the

GILA AND SALT RIVER BASE & Meridian.

State of

ARIZONA

Applicant for listing	Arthur A. Sullivan,
Residence	Heber, Arizona.
Application No. 582	, dated July 16 , 1915
List No. 3-3784	, dated April 3 , 1916

Applicant for survey	<i>walter c shelley</i> John Bowler,
Residence	Heber, Arizona.
H. E. No. 032890 039779	, dated June 6 , 1918
Land XXXXXX Office,	Phoenix, Arizona.

Survey executed by	Frank D. Yost,	Surveyor - Forest Service,
		<small>(Forest Service Title.)</small>
Under special instructions dated	February 14,	1918
Survey commenced	July 10	, 1919
Survey completed	July 10	, 1919.
Under Acts of	June 11, 1906, and July 24	, 1919. (OVER)



OATH OF ASSISTANTS

We hereby certify that we assisted **Frank D. Yost,**
Surveyor - Forest Service, in surveying all those
[Forest Service Title.]

parts or portions of Homestead Entry Survey No. **547**, 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.

H. E. Brandebury

Chairman

H. H. Lacy

Chairman

Subscribed and sworn to before me this **Sixth** day of
August, 19 **19**

Frank D. Yost

Surveyor - Forest Service,

OATH OF SURVEYOR

I, **Frank D. Yost,** Surveyor - Forest Service,
[Forest Service Title.]

do solemnly swear that, in strict conformity with the special instruc-
tions of the United States Surveyor General for **ARIZONA**, dated
February 14, 19 **18**, 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 3-3784, dated April 3, 1916, and a tract of unlisted land
upon the application of Arthur A. Sullivan,

Application, No. **582**, dated **July 16**, 19 **15**, for
Listing and Patent, under the Act of **June 11**, 19 **06**,
the same to be known as Homestead Entry Survey No. **547**,
situated within the **SITGREAVES** National Forest, in
un surveyed Section **10**, Township **12 N.**, Range **16 E.**, and
un surveyed Section **11**, Township **12 N.**, Range **16 E.**,

of the **GILA AND SALT RIVER BASE &** 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.

Frank D. Yost

Surveyor - Forest Service,
[Forest Service Title.]

Subscribed and sworn to before me this **fifth** day of
November, 19 **19**

Ethel G. Myers

Notary Public,



8-2349

My commission expires March 17, 1921.

March 17, 1921

HOMESTEAD ENTRY SURVEY NO. 547

SITGREAVES NATIONAL FOREST

STATE OF ARIZONA

Chains

Applicant for listing, Arthur A. Sullivan; Application No. 582, dated July 16, 1915; List No. 3-3784; dated April 3, 1916; H. E. 039779 made in the Phoenix Land Office on June 16, 1918, by John Bowler.

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 14, 1918, and designated as Homestead Entry Survey No. 547.

Situated in what will probably be when surveyed, Secs. 10 and 11, T. 12 N., R. 16 E., Gila and Salt River Base and Meridian, Sitgreaves National Forest, Arizona.

Surveyed under the Acts of June 11, 1906 and July 24, 1919.

Survey commenced July 10, 1919, and executed with a Buff and Buff transit No. 10019, 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.

July 10, 1919

At Cor. No. 1, of this survey, hereinafter described, I observe the altitude of the sun for azimuth. The reading on the reference mark was set at zero and the sun was observed in all four quadrants of the field.

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My watch was set for local mean time.

Lat. 34° 28' 00" N., Long. 110° 37' 46" W., from Special Instructions from the Surveyor General and later verified.

Telescope	Pos. sun	l.m.t. a.m.	Horizontal Angle	Vertical Angle
Direct	+°	8h 28m 10s	72° 46' 30"	41° 15' 30"
Reversed	+°	8h 30m 15s	72° 21' 00"	41° 09' 30"
Direct	+°	8h 28m 45s	72° 09' 30"	41° 22' 30"
Reversed	+°	8h 29m 35s	72° 58' 00"	41° 02' 00"

The bearing of the reference object is N. 16° 46' 37" E.

At the same station I again observe the altitude of the sun for azimuth. The reading on the reference mark was set at zero and the sun was observed in all four quadrants of the field.

Telescope	Pos. sun	l.m.t. a.m.	Horizontal Angle	Vertical Angle
Direct	+°	8h 32m 50s	73° 25' 00"	42° 12' 30"
Reversed	+°	8h 34m 50s	72° 59' 30"	42° 06' 30"
Direct	+°	8h 33m 25s	72° 49' 00"	42° 21' 30"
Reversed	+°	8h 34m 20s	73° 38' 00"	42° 01' 30"

The bearing of the reference mark is N. 16° 47' 08" E.

The two observations give a mean bearing of the reference mark of N. 16° 46' 52" E. I accept bearing of reference mark as N. 16° 47' E., and from the corresponding meridian all the courses of this survey were deflected by sustained angulation.

BOUNDARIES OF CLAIM

July 10, 1919.

Beginning at Cor. No. 1,

Identical with Cor. H-1 of the list survey, which is a limestone 4 x 3 x 3 ins. on top of embedded limestone

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boulder 5 x 3 x 3 ft. above ground, marked and witnessed as described by the Forest Service. I destroy all trace of this list cor. I chisel + for the point, and 1 H E S 547 on the flat top of the embedded limestone boulder showing 5 x 3 x 3 ft. above ground for Cor. No. 1 of this survey, and raise a mound of stone 3 ft. base, 2 ft. high, SW. of cor., whence:

A pine 14 ins. dia., brs. S. $4^{\circ} 49' W.$,

43 lks. dist., blazed and scribed

+ 1 H E S 547 B R chiseled on the vertical West face of a limestone outcrop 8 ft. high, 350 ft. long, extending N. and S., bears N. $84^{\circ} 28' E.$, 54 lks. dist.

Cor. of wire fence, bears S. $79^{\circ} 35' W.$, 27

lks. dist., from which fences bear SW. and

SSW.

The corner of Secs. 2, 3, 10 and 11, T. 12 N.,

R. 16 E., survey awaiting approval, an iron post 2 ins. dia., 18 ins. above ground, mkd. and witnessed as described by the Surveyor General, brs. N. $86^{\circ} 45' 27'' W.$, 15.74 chs. dist. by traverse which appears at the end of these notes.

The Std. cor. of T. 13 N., Rs. 16 and 17 E.,

an iron post 3 ins. dia., 12 ins. above ground, with brass cap mkd. and witnessed as described by the Surveyor General, brs. N. $71^{\circ} 57' E.$, 111.06 chs. dist. by direct measurement.

Lat. $34^{\circ} 28' 00'' N.$, Long. $110^{\circ} 37' 46'' W.$, from Special Instructions from the Surveyor General and later verified.

Magnetic declination at 8 a.m. is $14^{\circ} 30' E.$, Mean Magnetic declination, $14^{\circ} 26' E.$

Chains	<p>Thence S. $0^{\circ} 33'$ E.</p> <p>Over level grassy bottom land,</p> <p>Wire fence and cultivated land to right.</p> <p>28.00 To Cor. No. 2.</p> <p>Identical with Cor. H-2 of the list survey, which is a limestone 20 x 18 x 8 ins. above ground, marked and witnessed as described by the Forest Service. I destroy all trace of this list cor.</p> <p>Deposit a limestone 4 x 3 x 2 ins. marked with a + 20 ins. in the ground, over which set a limestone 30 x 14 x 10 ins. chiseled + for the point and 2 H E S 547 on NW. face; raise a mound of stone 3 ft. base, 2 ft. high, NW. of cor., whence:</p> <p>A pinon 18 ins. dia., brs. N. $56^{\circ} 10'$ W., 43 lks. dist.</p> <p>A pinon 10 ins. dia., brs. S. $21^{\circ} 38'$ W., 32 lks. dist.</p> <p>Each blazed and scribed 2 H E S 547 + B T</p> <hr/> <p>Thence S. $51^{\circ} 52'$ W.</p> <p>Ascend 30 ft. over steep rocky east slope, thru dense scrub oak, over unlisted land.</p> <p>4.01 Top of ascent, on small spur, bears North. Desc. 30 ft. over steep rocky West slope, thru dense scrub oak.</p> <p>8.21 Bottom of desc. Thence over gently rolling land, thru scattering pine.</p> <p>39.78 To Cor. No. 3.</p> <p>Deposit a sandstone 5 x 4 x 2 ins. marked with a + 18 ins. in the ground, on solid rock, over which set an iron post 36 ins. long, 2 ins. dia., with brass cap mkd. 1919 on S. rim and 3 H E S 547 in portion of circle facing claim, surrounded by a mound of stone 3 ft. base, 18 ins. high, and raise a mound of stone 3 ft.</p>
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SITGREAVES NATIONAL FOREST

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Chains

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

A pine 10 ins. dia., brs. S. 40° 07' W.,

7 lks. dist.

A pine 8 ins. dia., brs. S. 60° 21' E.,

18 lks. dist.

Each blazed and scribed 3 H E S 547 + B T

Thence N. 39° 25' W.

Over gently rolling land, thru pine and pinon.

17.82

To Cor. No. 4.

Identical with Cor. H-3 of the list survey, which is a sandstone 14 x 7 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 4 x 4 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 4 H E S 547 on NE. face; raise a mound of stone 3 ft. base, 2 ft. high, NE. of cor., whence:-

A pinon 12 ins. dia., brs. S. 8° 35' E.,

51 lks. dist.

A pinon 9 ins. dia., brs. S. 84° 01' W.,

42 lks. dist.

Each blazed and scribed 4 H E S 547 + B T

Leave unlisted and enter listed land.

Thence N. 0° 17' W.

Over gently rolling land, thru pine, pinon and cedar.

28.45

To Cor. No. 5.

Identical with Cor. H-4 of the list survey, which is a sandstone 12 x 10 x 8 ins. above ground, marked and witnessed as described by the Forest Service. I destroy all trace of this list cor.

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Deposit a sandstone 5 x 2 x 2 ins. marked with a + 18 ins. in the ground, on solid rock, over which set an iron post 36 ins. long, 2 ins. dia., with brass cap marked 1919 on S. rim, and 5 H E S 547 in portion of circle facing claim, surrounded by a mound of stone 3 ft. base, 18 ins. high, and raise a mound of stone 3 ft. base, 2 ft. high, SE. of cor., whence:

- A pine 24 ins. dia., brs. S. 30° 50' W., 39 lks. dist.

A pine 14 ins. dia., brs. N. 64° 27' W., 45 lks. dist.

Each blazed and scribed 5 H E S 547 + B T

Thence N. 76° 10' E.

Along steep rocky S. slope, thru heavy scrub oak.

43.73 To Cor. No. 1, the place of beginning.

AREA

Listed Area, - - - - -	120.23 Acres.
Unlisted Area. - - - - -	<u>35.43</u> Acres
Total Area - - - - -	155.66 Acres

IMPROVEMENTS

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

A new log house, 24 x 40. ft., the long sides extending N. and S., the NW. cor. of which brs. S. 14° 01' E., 10.20 chs. dist. from cor. No. 5.

Value - - - - - \$ 400.00

A log house 12 x 24 ft., the long sides extending N. and S., the SW. cor. of which bears

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N. 72° 15' E., 16.59 chs. dist. from Cor.

No. 4.

Value - - - - - \$200.00

A pole barn 12 x 14 ft., the long sides extend-
ing N. and S., the SW. cor. of which brs.

N. 58° 47' E., 16.31 chs. dist. from Cor.

No. 4.

Value - - - - - \$ 75.00

Approximately 1-1/2 miles of wire fencing,

Value - - - - - \$200.00

DESCRIPTION

The claim consists mainly of open bottom land at the
junction of several small shallow draws. The general
slope is to the North.

The soil is a black sandy loam of good depth and very
fertile. Dry farming methods must be resorted to in
order to grow crops. There is no water on the claim
and the prospects of developing water are very meager.
Water for domestic use is hauled from Heber, about
2-1/2 miles distant.

Approximately 90 percent of the area is suitable for
agricultural purposes, of which 80 acres were under
cultivation at the time of survey.

There is no timber of commercial value on the claim.

I saw no indications of mineral on the claim.

CONFLICTS AND ADJOINING CLAIMS

There are no conflicts or adjoining claims.

Heber, Arizona, the nearest settlement and postoffice,
lies about 2-1/2 miles distant in a southeasterly dir-
ection.

Holbrook, the nearest railway point lies about 60 miles

Chains distant in a Northeasterly direction.

TRAVERSES

Course	Distance	N.	S.	E.	W.
S. 0° 33' E.	28.00		28.00	.27	
S. 51° 52' W.	39.78		24.56		31.29
N. 39° 25' W.	17.82	13.77			11.31
N. 0° 17' W.	28.43	28.43			.14
N. 76° 10' E.	43.73	10.46		42.46	
	157.76	52.66	52.56	42.73	42.74
		52.56			42.73
Error in Lat. and Dep.		.10			.01

Closing Error, 1:1570

TIELINE FROM COR. NO. 1, H.E.S. 547 TO THE COR. OF SECS.

2, 3, 10 and 11, T. 12 N., R. 16 E.

Course	Dist.	N.	S.	E.	W.
S. 52° 27' W.	35.96		21.92	1.875	28.51
N. 12° 32' E.	8.64	8.43		1.88	
N. 1° 18' W.	17.23	17.23			.39
S. 87° 50' E.	6.96		.26	6.96	
E. 56° 32' E.	3.21		1.77	2.68	
S. 63° 52' E.	1.86		.82	1.67	
		25.66	24.77	13.19	28.90
		24.77			13.19
		1.89			15.71

Resultant Course, N. 86° 45' 27" W., 15.74 chs.

Survey completed July 10, 1919.

The changes made in this survey are in accordance with the desires of the entryman and meet with the approval of the Forest Service.

Copy of a signed statement from the entryman agreeing to the changes made and also agreeing to amend his entry to conform to this survey is attached at the end of these notes.

Frank DeFoor

Surveyor - Forest Service

SITGREAVES NATIONAL FOREST

STATE OF ARIZONA

Chains

Direct Solar obsn. at Cor. No. 1, of H. E. S. No. 547
Lat. 34° 28' N., Long. 110° 37' 46" W., from Special
Instructions from the Surveyor General and later veri-
fied.

Telescope	Pos. sun	l.m.t. a.m.	Horizontal Angle	Vertical Angle
Direct	+°	8h 28m 10s	72° 46' 30"	41° 15' 30"
Reversed	±	8h 30m 15s	72° 21' 00"	41° 09' 30"
Direct	°±	8h 28m 45s	72° 09' 30"	41° 22' 30"
Reversed	+.	8h 29m 35s	72° 58' 00"	41° 02' 00"
Means		8h 29m 11s	72° 33' 45"	41° 12' 22"

Correction for refr. $\frac{47''}{41^{\circ} 11' 35''}$

Decl. 22° 19' 32" N.

$$\text{Cos. } Q. = \frac{\sin. 22^{\circ} 19' 32''}{\cos. 34^{\circ} 28' \times \cos. 41^{\circ} 11' 35''} - \tan. 34^{\circ} 28'$$

$$\times \tan. 41^{\circ} 11' 35''$$

$$\sin. 22^{\circ} 19' 32'' = 9.5796337$$

$$\cos. 34^{\circ} 28' 00'' = 9.9161673$$

$$\cos. 41^{\circ} 11' 35'' = 9.8765035$$

$$9.7869629 = \log. .61230$$

$$\tan. 34^{\circ} 28' 00'' = 9.8365929$$

$$\tan. 41^{\circ} 11' 35'' = 9.9421171$$

$$9.7787100 = \log. .60077$$

$$\text{Cos. } Q. = .01153$$

$$Q. = 89^{\circ} 20' 22''$$

Bearing of Reference mark, N. 16° 46' 37" E.

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Chains

Direct Solar obsn. at Cor. No. 1, of H. E. S. 547.

Lat. 34° 28' N., Long. 110° 37' 46" W., from Special Instructions from the Surveyor General and later verified. Elevation approximately 6500 ft.

Telescope	Pos. sun	l.m.t. a.m.	Horizontal Angle	Vertical Angle
Direct	+°	8h 32m 50s	73° 25' 00"	42° 12' 30"
Reversed	+	8h 34m 50s	72° 59' 30"	42° 06' 30"
Direct	°+	8h 33m 25s	72° 49' 00"	42° 21' 30"
Reversed	°	8h 34m 20s	73° 38' 00"	42° 01' 30"
Means		8h 33m 51s	73° 12' 52"	42° 10' 30"
			Correction for refr.	46"
				42° 09' 44"

Decl. 22° 19' 33" N.

$$\text{Cos. Q.} = \frac{\sin. 22^\circ 19' 33''}{\cos. 34^\circ 28' \times \cos. 42^\circ 09' 44''} - \tan. 34^\circ 28' \times \tan. 42^\circ 09' 44''$$

$\sin. 22^\circ 19' 33'' = 9.5796388$
 $\cos. 34^\circ 28' 00'' = 9.9161673$
 $\cos. 42^\circ 09' 44'' = 9.8699632$
 $9.7935083 = \log. .62160$
 $\tan. 34^\circ 28' 00'' = 9.8365929$
 $\tan. 42^\circ 09' 44'' = 9.9569095$
 $9.7935024 = \log. .62159$
 $\text{Cos. Q.} = .00001$
 $\text{Q.} = 90^\circ 00' 00''$

Bearing of reference mark, N. 16° 47' 08" E.

(Copy)

July 10, 1919.

I, John Bowler, hereby agree to the survey of my homestead, Number 547, as made on the 10th day of July, 1919, by Forest Service Surveyor, Frank D. Yost, 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 the inclusion of unlisted land on the South.

(Sgd.) Harold H. Longfellow,

(Sgd.) John Bowler,

Witness.

Claimant,

APPROVAL

Office of the United States Surveyor General,

Phoenix, Arizona, April 26, 1920

The foregoing field notes of Homestead Entry Survey No.

547

executed by *Frank D. Gost, Surveyor* [Forest Service Title.]
under his special instructions, dated *February 14*, 1918, 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.