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U. S. DEPARTMENT OF AGRICULTURE  
FOREST SERVICE

FIELD NOTES

ORIGINAL

HOMESTEAD ENTRY SURVEY NO. 597

SITUATED IN THE APACHE NATIONAL FOREST

ADMINISTRATIVE DISTRICT NO. 3

In Section 15 , un-surveyed, Township 4 N, Range 30 E.  
In Section 22 , un-surveyed, Township 4 N, Range 30 E.

of the

GILA AND SALT RIVER BASE AND Meridian.

State of

ARIZONA

Applicant for listing Joe Brooks  
Residence Espero, Arizona  
Application No. 307 , dated November 8 , 19 13  
List No. 3-3146 , dated May 4, , 19 14

Applicant for survey Norman A. Josh  
Residence Espero, Arizona  
H. E. No. 031355 , dated February 14 , 19 17  
Land Office Phoenix, Arizona

Survey executed by Thomas F. Myers, Surveyor - Forest Service  
[Forest Service Title]  
Under special instructions dated May 14 , 19 19  
Survey commenced June 12 , 19 21  
Survey completed June 13 , 19 21  
Under Acts of June 11, 1906, and May 31, 1921



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OATH OF ASSISTANTS

We hereby certify that we assisted **Thomas F. Myers,**  
**Surveyor - Forest Service** in surveying all those  
[Forest Service Title.]

parts or portions of Homestead Entry Survey No. **597**, 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.

*EB Laekie*

CHAINMAN

*Calvin Morris*

CHAINMAN

Subscribed and sworn to before me this **13th** day of  
**June**, 19 **21**

*Thomas F. Myers*

Surveyor - Forest Service.

OATH OF SURVEYOR

I, **Thomas F. Myers,** **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  
**May 14**, 19 **19**, 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. **3-3146**, dated **May 4, 1914**, and a tract of land  
upon the application of **Joe Brooks**

Application, No. **307**, dated **November 8, 1913**, for  
listing and patent, under the Act of **June 11**, 19 **06**,  
the same to be known as Homestead Entry Survey No. **597**,  
situated within the **APACHE** National Forest, in  
un-surveyed Section **15**, Township **4 N.**, Range **30 E.**, and  
un-surveyed Section **22**, Township **4 N.**, Range **30 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

*Thomas F. Myers*

Surveyor - Forest Service.

[Forest Service Title.]

Subscribed and sworn to before me this **6th** day of  
**April**, 19 **22**.

*Ethel G. Myers*

Notary



8-2349

My comm. expires April 12, 1925.



Chains

Applicant for listing, Joe Brooks; Application No. 307, dated November 8, 1913; List No. 3-3146, dated May 4, 1914; H. E. 031355, made in the Phoenix Land Office on February 14, 1917, by Norman A. Josh.

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. 031355. This is therefore a composite survey.

Surveyed under special instructions from the Surveyor General for Arizona, dated May 14, 1919, and designated as Homestead Entry Survey No. 597.

Situated in what will probably be when surveyed Secs. 15 and 22, T. 4 N., R. 30 E., Gila and Salt River Base and Meridian, Apache National Forest, Arizona. Surveyed under the Acts of June 11, 1906, and May 31, 1921.

Survey commenced June 12, 1921, and executed with a Buff and Buff transit No. 10530, 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.

The courses of this survey were deflected from the meridian established by Polaris obsn. on June 8, 1921, near Cor. No. 1 of HES 592. All lines were carried forward by sustained angulation and checked with the



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Smith solar attachment, which I carefully check on the above meridian as follows:

June 12, 1921.

At the Azimuth station near Cor. No. 1 of HES 592 at 7h 00m a.m. l.m.t., I set off 33°42' on Lat. arc and 23°10' on decl. arc, and determine a meridian with the solar. The meridian thus determined agrees within less than 1 minute of the meridian determined by Polaris obsn.

At the same station at 4h 44m p.m. l.m.t., I set off 33°42' on lat. arc and 23°11' N. on decl. arc, and determine a meridian with the solar. The meridian thus determined differs by 1 minute from the meridian determined by Polaris obsn.

Note: Because of clouds and rain, it was impracticable to determine a meridian on the claim by direct obsn. of the sun or by Polaris obsn.

BOUNDARIES OF CLAIM

June 12, 1921.

Beginning at Cor. No. 1.

Identical with Cor H/1 of the list survey, which is a malpais stone 10x6x8 ins. above ground, marked and witnessed as described by the Forest Service. I destroy all trace of this list cor.

Deposit a malpais stone 7x3x4 ins., marked with a + 16 ins. in the ground, over which set a malpais stone 26x12x8 ins., chiseled + for the point and 1 HES 597 on SW. face; raise a mound of stone 2 ft. base 1-1/2 ft. high SW. of Cor., whence:

A pine 14 ins. dia. brs. N. 48°32' E. 34 lks.

A pine 12 ins. dia. brs. N. 10°30' W. 25 lks.



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3.

Chains

Each blazed and scribed 1 HES 597 + BT.  
 U.S.L.M. 594 HES. (established by me on June 12, 1921, in connection with HES. 594), an embedded malpais boulder showing 55x46x22 ins. above ground, chiseled + on top for the point and USIM 594 HES on NE. face, with a mound of stone 9 ft. base 7 ft. high NE. of U.S.L.M. bears N. 47°03'06" E. 38.51 chs. distant by traverse which appears at the end of these notes.

Lat. 33°40'54" N., Long. 109°13'30" W., from Forest Service Base Map.

Mag. decl. at 9 a.m. 13°40' E. Mean mag. decl. 13°37' E.

Rain in afternoon.

June 12, 1921.

June 13, 1921.

At 9h. 30m. a.m. l.m.t., I set off 33°41' on lat. arc 23°13' N. on decl. arc and determine a meridian with the solar, at the above Cor. The meridian thus determined checks the azimuth carried by sustained angulation from Cor. No. 3 of HES. 592. On account of cloudy weather, all lines were carried forward by angulation.

Thence S. 8°39' E.

Over level land through edge of scattering pine timber. Fence on line.

16.10

To Cor. No. 2. Identical with Cor. H/2 of the list survey, which is a malpais stone 12x6x6 ins. above ground, marked and witnessed as described by the Forest Service. I destroy all trace of this list Cor.



Chains Deposit a malpais stone 6x5x4 ins., marked with a + 18 ins. in the ground, over which set a malpais stone 28x14x10 ins. chiseled + for the point and 2 HES 597 on NW. face; raise a mound of stone 3 ft. base 2 ft. high NW. of Cor., whence:

- A pine 24 ins. dia. brs. S. 44°32' W. 82 lks.
- A pine 14 ins. dia. brs. S. 49°00' E. 103 lks.

Each blazed and scribed 2 HES 597 + BT.

Thence S. 79°47' W.

Over rolling land through edge of heavy pine. Descend 30 ft.

Fence inside of line!

31.50 Arroyo 10 lks. wide 1 ft. deep, course N. Bottom of descent. Ascend gradually 15 ft.

40.00 Low spur bears N. Descend gradually 20 ft.

50.01 To Cor. No. 3.

Identical with Cor. H/3 of the list survey, which is a malpais stone 8x10x4 ins. above ground, marked and witnessed as described by the Forest Service. I destroy all trace of this list Cor.

Deposit a malpais stone 4x4x3 ins., marked with a + 14 ins. in the ground, over which set a malpais stone 24x12x8 ins., chiseled + for the point and 3 HES 597 on N. face; raise a mound of stone 2 ft. base 1-1/2 ft. high N. of Cor., whence:

A pine 34 ins. dia. brs. S. 66°46' E. 85 lks.

A pine 12 ins. dia. brs. S. 12°13' W. 52 lks.

Each blazed and scribed 3 HES 597 + BT.

Leave listed and enter unlisted land.

Thence N. 44°15' W.

Over gently rolling land through scattering pine.



Chains	Fence inside of line.
5.00	Small ravine (no well defined banks). Course NE.
14.59	To Cor. No. 4. Deposit a malpais stone 4x4x4 ins., marked with a + 14 ins in the ground, over which set a malpais stone 24x16x6 ins., chiseled + for the point and 4 HES 597 on E. face; raise a mound of stone 2 ft. base 1-1/2 ft. high E. of Cor., whence: A pine 32 ins. dia. brs. N. 49°54' E. 26 lks. A pine 36 ins. dia. brs. S. 45°28' E. 29 lks. Each blazed and scribed 4 HES 597 + BT.
	Thence N. 24°11' E. Over unlisted rolling land through scattering pine. Fence inside of line.
13.90	Road, bears E. and W.
14.48	To Cor. No. 5. Identical with Cor. H/4 of the list survey, which is a malpais stone 19x8x8 ins. above ground, marked and witnessed as described by the Forest Service. I destroy all trace of this list Cor. Deposit a malpais stone 8x4x3 ins., marked with a + 16 ins. in the ground, over which set a malpais stone 26x10x8 ins., chiseled + for the point and 5 HES 597 on SE. face; raise a mound of stone 3 ft. base 2 ft. high SE. of Cor., whence: A pine 24 ins. dia. brs. N. 23°13' E. 85 lks. A pine 24 ins. dia. brs. N. 44°51' W. 80 lks. Each blazed and scribed 5 HES 597 + BT. Cor. No. 3 of HES 592 (surveyed by me on June 8 and 9, 1921), a malpais stone 10x10x10 ins. above ground, marked + on top and 3 HES 592 on NW. face, bears N. 42°02' 27" W. 74.38 chs. by traverse which appears at the end of these



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Chains	notes.
	Leave unlisted and enter listed land.
	Thence N. 88°45' E.
	Over rolling land through scattering pine. Fence inside of line.
18.00	Draw, head of W. Fork of Beaver Creek, 100 lks. wide 50 ft. deep, course N.
36.10	Arroyo 10 lks. wide 2 ft. deep, course NW.
51.07	To Cor. No. 1, the place of beginning.

AREA

Listed area	- - - - -	100.88 acres
Unlisted area	- - - - -	9.82 "
Total area	- - - - -	110.70 acres

IMPROVEMENTS

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

- A log house 16x18 ft. (no roof), the long sides extending E. and W.; the NW. Cor. bears S. 64°26' E. 10.77 chs. dist. from Cor. No. 5.  
Value - - - - - \$40.00
- A log house 16x24 ft., the long sides extending N. and S., the NW. Cor. of which bears S. 53°24' E. 25.11 chs. from Cor. No. 5.  
Value - - - - - \$1000.00
- A log stable 30x50 ft., the long sides extending N. and S., the NW. Cor. of which bears S. 64°43' E. 24.05 chs. from Cor. No. 5.  
Value - - - - - \$300.00
- About 2 miles of wire fencing.  
Value - - - - - \$300.00



APACHE NATIONAL FOREST

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7.

Chains

A log shed 20x24 ft., the long sides extending E. & W.,  
the SW. Cor. of which bears S. 87°24' E. 15.41 chs.  
from Cor. No. 5.

Value - - - - - \$ 50.00

DESCRIPTION

The claim is comprised mainly of a large open cienega,  
locally known as coffee mill cienega, a marshy meadow,  
situated at an elevation of about 8,000 ft. The soil  
is a deep, black loam. About 100 acres of the area  
is suitable for agricultural purposes, of which about  
40 acres were under cultivation at the time of survey.

The rainfall is depended upon to grow crops.

Water for domestic use is obtained from a spring east  
of the house.

There is no timber of commercial value on the claim.

I saw no indication of mineral on the claim.

CONFLICTS AND ADJOINING CLAIMS

There are no conflicts and adjoining claims. HES. 592  
lies about 7/8 of a mile to the NW. HES. 505 lies  
about 1-1/4 miles to NW. HES. 595 (surveyed by me on  
June 14, 1921) lies about 1/2 mile to N., and HES. 594  
(surveyed by me on June 16, 1921) lies about 1/2 mile  
to NE.

Espero, Arizona, postoffice, lies about 2-1/2 miles to  
NW.

Alpine, Arizona, the nearest settlement and trading  
point, lies about 18 miles to NE. and is reached by  
trail. Springerville, Arizona, the general trading  
point for this section of the country, lies about 40  
miles distant in a northerly direction and is reached  
by fair wagon road.



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Chains.

TRAVERSES

Course	Dist.	N.	S.	E.	W.
S. 8°39'E.	16.10		15.92	2.42	
S. 79°47'W.	50.01		8.87		49.22
N. 44°15'W.	14.59	10.45			10.18
N. 24°11'E.	14.48	13.21		5.93	
N. 88°45'E.	51.07	1.11		51.06	
	146.25	24.77	24.79	59.41	59.40

Error in lat. and dep. 02 01

Closing error 1/6541.

UNLISTED AREA

Course	Dist.	N.	S.	E.	W.
N. 44°15'W.	14.59	10.45			10.18
N. 24°11'E.	14.48	13.21		5.93	
S. 10°11'E.	24.04		23.66	4.25	
		23.66	23.66	10.18	10.18

TIE COR. 5/597 to COR. 3/592

Course	Dist.	N.	S.	E.	W.
N. 63°01'W.	3.42	1.55			3.05
S. 88°58'W.	3.25		.06		3.25
S. 79°58'W.	4.59		.80		4.52
N. 60°24'W.	10.12	5.00			8.80
N. 21°05'W.	8.75	8.16			3.15
N. 16°35'W.	8.05	7.72			2.30
N. 45°40'W.	2.79	1.95			2.00
N. 75°12'W.	3.64	.93			3.52
N. 50°01'W.	11.80	7.58			9.04
N. 52°34'W.	7.63	4.64			6.06
N. 8°52'E.	12.53	12.38		1.93	
N. 7°34'E.	7.75	7.68		1.02	
N. 86°27'W.	8.61	.53			8.59
S. 36°51'E.	2.53		2.02	1.52	
		58.12	2.88	4.47	54.28
		2.88			4.47
		55.24			49.81

Resultant course N. 42°02'27" W. 74.38 chs.

TIE COR. 1 HES. 597 to U.S.L.M. 594 HES.

Course	Dist.	N.	S.	E.	W.
N. 85°46'E.	27.25	2.01		27.18	
N. 14°49'E.	17.96	17.36		4.59	
N. 23°16'W.	7.77	7.14			3.07
S. 61°55'W.	.58		.27		.51
		26.51	.27	31.77	3.58
		.27		3.58	
		26.24		28.19	

Resultant course N. 47°03'06" E. 38.51 chs.

Survey completed June 13, 1921.

*Thomas Z. Myers*  
Surveyor - Forest Service.



- 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. 597, STATE OF ARIZONA

8-2349

CORNERS.	BEARING.	DISTANCE.	LATITUDES.		DEPARTURES.		DOUBLE M. D.	N. AREAS.		S. AREAS.	
			NORTH.	SOUTH.	EAST.	WEST.					
1 - 2	S. 8°39' E.	16.10		15 92	2 42		116 38			1852 77	
2 - 3	S. 79°47' W.	50.01		8 87		49 22	69 58			616 48	
3 - 4	N. 44°15' W.	14.59	10 45			10 18	10 18	106 38			
4 - 5	N. 24°11' E.	14.48	13 21		5 93		5 93	78 34			
5 - 1	N. 88°45' E.	51.07	1 11		51 06		62 91	70 46			
		146.25	24 77	24 79	59 41	59 40		255 18		2469 25	
Error in Lat. & Dep.				02		01				255 18	
Closing error 1/6541										20/2214 07	
										110 70	
			Unlisted Area								
	N. 44°15' W.	14.59	10 45			10 18	10 18	106 38			
	N. 24°11' E.	14.48	13 21		5 93		5 93	78 34			
	S. 10°11' E.	24.04		23 66	4 25		16 11			381 16	
			23 66	23 66	10 18	10 18		184 72		381 16	
										184 72	
										20/196 44	
										9 82	

O.K.

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APPROVAL

Office of the United States Surveyor General,

Phoenix, Arizona, Dec. 12, 1912

The foregoing field notes of Homestead Entry Survey No.

597

executed by *Thomas F. Myers, Surveyor* [Forest Service Title]  
under his special instructions, dated *May 14*, 1919, 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.