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JUN 3 1922
MAY 1 1922

U. S. DEPARTMENT OF AGRICULTURE
FOREST SERVICE

ORIGINAL

FIELD NOTES

HOMESTEAD ENTRY SURVEY NO. 596
SITUATED IN THE APACHE NATIONAL FOREST

ADMINISTRATIVE DISTRICT NO. 3

In Section 3, un-surveyed, Township 4 N., Range 29 E.
In Section 34, un-surveyed, Township 4 N., Range 29 E.

of the
GILA AND SALT RIVER BASE & Meridian.

State of
ARIZONA

[Faint, mostly illegible text, likely bleed-through from the reverse side of the page]

Applicant for listing George Balke

Residence Espero, Arizona

Application No. 320, dated April 24, 1914.

List No. 3-3263, dated August 10, 1914.

Applicant for survey Isaac A. Shoop,

Residence Espero, Arizona

H. E. No. 037284, dated December 10, 1917

Land Office Phoenix, Arizona.

Survey executed by Thomas F. Myers, Surveyor - Forest Service,
[Forest Service Title]

Under special instructions dated May 14, 1919

Survey commenced May 29, 1921

Survey completed May 30, 1921

Under Acts of June 11, 1906, and May 31, 1920.

280

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. 596, 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.

EB Lackie Chairman

Colat Morris Chairman

Subscribed and sworn to before me this 30th day of

May, 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 instructions 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. 3-3263, dated August 10, 1914, and a tract of adjoining land upon the application of George Balke,

Application, No. 320, dated April 24, 19 14, for Listing and Patent, under the Act of June 11, 1906, the same to be known as Homestead Entry Survey No. 596, situated within the APACHE National Forest, in un-surveyed Section 3, Township 4 N., Range 29 E., and un-surveyed Section 34, Township 4 1/2 N., Range 29 E.

of the GILA & 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 8th day of

May, 19 22.

Ethel G. Myers

Notary Public.



8-2349

My com. expires April 12, 1925.

Chains

Applicant for listing; George Balke; Application No. 320, dated April 24, 1914; List No. 3-3263, dated August 10, 1914; H.E. 037284, made in the Phoenix Land Office on Dec. 10, 1917, by Isaac A. Shoop.

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. 037284. 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. 596.

Situated in what will probably be when surveyed Sec. 3, T. 4 N., R. 29 E., and what will probably be Sec. 34, T. 4½ N., R. 29 E., Gila and Salt River Base and Meridian, Apache National Forest, Arizona.

Surveyed under the Acts of June 11, 1906, and May 31, 1920.

Survey commenced May 29, 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.

May 29, 1921.

At my station near Cor. No. 5 of this survey hereinafter described in Lat. 33°43'20" N., Long. 109°19'30" W. from Forest Service Base Map, at 7h 29m 53s p.m. l.m.t., I observe Polaris with telescope direct,

Chains

reading an angle of $7^{\circ}43'30''$ from star to west to a reference mark about 1 mile distant.

Greenwich m.t. U. C. Polaris, May 29, 1921, 9h 06.7m a.m.

Corr. for Long. 1.2

l.m.t. U. C. Polaris, May 29, 1921, 9h 05.5m a.m.

l.m.t. obsn. Polaris, May 29, 1921, 7h 29.9m p.m.

Hour Angle 10h 24.4m

Azimuth of Polaris $0^{\circ}31'48''$ W.

Bearing of reference mark N. $8^{\circ}15'18''$ W.

At same station at 7h 32m 40s p.m. l.m.t., I again observe Polaris with telescope reversed, reading an angle of $7^{\circ}44'30''$ from star to left to same reference mark.

l.m.t. U. C. Polaris, May 29, 1921, 9h 05.5m a.m.

l.m.t. obsn. Polaris May 29, 1921, 7h 32.7m p.m.

Hour angle 10h 27.2m

Azimuth of Polaris $0^{\circ}30'54''$ W.

Bearing of reference mark N. $8^{\circ}15'24''$ W.

The mean bearing of the reference mark, as determined from the two obsns. is N. $8^{\circ}15'21''$ W. I accept bearing of reference mark as N. $8^{\circ}15'$ W., and from the corresponding meridian all the courses of this survey were deflected by sustained angulation.

May 29, 1921.

RETRACEMENT W. BOUNDARY H.E.S. 480.

May 30, 1921.

Beginning at Cor. No. 2 of HES 480, a lava stone 12x8x10 ins. above ground, marked + on top and 2 HES 480 on S. face.

Thence S. $14^{\circ}37'$ W.

Along line 2-1 of HES. 480 for flag on Cor. No. 1, which is plainly visible.

16.99 To Cor. No. 1 of HES. 480, a lava stone 10x8x10 ins. above ground, marked + on top and 1 HES. 480 on E. face.

Chains Thence S. $32^{\circ}06'$ E.
Retracing line 1-7 of HES. 480.

38.16 Fall 2 lks. N. $57^{\circ}54'$ E. of Cor. No. 7 of HES. 480, a lava stone $10 \times 8 \times 10$ ins. above ground, marked + on top and 7 HES. 480 on N. face, witnessed as described in accepted field notes of HES. 480.

Thence N. $32^{\circ}04'$ W.
On true line 7-1 of HES. 480.

29.69 Set temporary point for Cor. No. 5 of HES. 596.

38.16 To Cor. No. 1 of HES. 480, previously described.

BOUNDARIES OF CLAIM

May 30, 1921.

Beginning at Cor. No. 1, which is also Cor. No. 8 of HES. 603.

Identical with Cor. H/3 of List. 3-3263, a malpais stone $10 \times 8 \times 6$ ins. above ground, marked and witnessed as described by the Forest Service. I destroy all trace of this list Cor.

Deposit a malpais stone $4 \times 5 \times 3$ ins., marked with a + 20 ins. in the ground, over which set a malpais stone $28 \times 18 \times 7$ ins., chiseled + for the point and 1 HES 596 on NE., and 8 HES 603 on NW. faces; raise a mound of stone 2 ft. base $1-1/2$ ft. high NE. and NW. of Cor., whence:

A pine 18 ins. dia. brs. N. $83^{\circ}45'$ W. 105 lks.

A pine 12 ins. dia. brs. S. $42^{\circ}30'$ W. 111 lks.

Each blazed and scribed 1 HES. 596 + BT.

A pine 36 ins. dia. brs. N. $38^{\circ}00'$ W. 178 lks.

A pine 20 ins. dia. brs. S. $19^{\circ}35'$ W. 101 lks.

Each blazed and scribed 8 HES. 603 + BT.

The $1/4$ Cor. on E. boundary of Sec. 24, T. 4 N.

R. 28 E. (Restored by Surveyor R. P. A. Johnson

254

APACHE NATIONAL FOREST

4.

STATE OF ARIZONA

Chains

in connection with the survey of HES. 480), a lava stone 12x12x10 ins. above ground, marked + on top and 1/4 on W. face, with mound of stone W. of Cor., bears N. 72°45'37" W. 44.27 chs. dist., by traverse which appears at the end of these notes.

Lat. 33°43'06" N., Long. 109°20'06" W. from Forest

Service Base Map.

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

Note: Cor. No. 8 of HES. 603 was marked and witnessed by me on May 31 in connection with the survey thereof.

Thence N. 1°47' W.

Through scattering pine over level land.

8.80

Fence bears S. 5°30' E. and N. 1°47' W. along line.

Leave pine timber, thence over open level land outside of fence.

33.08

To Cor. No. 2, also Cor. No. 7 of HES. 603 at fence Cor.

Identical with Cor. H/2 of List 3-3263, also Cor. H/7

of List 3-4388 ~~xxxxxxxxxxxxxxxxxxxx~~, which is a malpais

stone 12x10x8 ins. above ground, marked and witnessed

as described by the Forest Service. I destroy all

trace of this list Cor.

Deposit a malpais stone 8x6x6 ins., marked with a + 20

ins. in the ground, over which set a malpais stone

26x14x8 ins., chiseled + for the point and 2 HES. 596

on SE. face, and 7 HES 603 on SW. face; raise a mound

of stone 2 ft. base 1-1/2 ft. high SE. and SW. of Cor.,

whence:

No witnesses available, pits impracticable.

Thence S. 89°39' E.

Over open level land along outside of fence.

14.00

Cross to inside of fence.

48.99

To Cor. No. 3.

Identical with Cor. No. 2 of HES. 480 and point for Cor.

H/1 of List 3-3263, a lava stone 12x8x10 ins. above

Chains

ground, marked + on top and 2 HES. 480 on S. face.
 (Cor. H/1 of the list survey was destroyed in connection
 with the survey of HES. 480). I adopt Cor. No. 2 of
 HES. 480 for Cor. No. 3 of this survey and chisel same
 stone 3 HES 596 on SW. face.
 No witnesses available. Pits impracticable.

Thence S. 14°37' W.

Along line 2-1 of HES. 480, over open level land.

16.99 To Cor. No. 4.

Identical with Cor. No. 1 of HES. 480 and point for
 Cor. H/5 of List 3-3263, a lava stone 10x8x10 ins.
 above ground, marked + on top and 1 HES. 480 on E.
 face. (Cor. H/5 of list survey was destroyed in con-
 nection with survey of HES. 480). I adopt Cor. No. 1
 of HES. 480 for Cor. No. 4 of this survey and chisel
 same stone 4 HES 596 on W. face.
 No witnesses available. Pits impracticable.

Thence S. 32°04' E.

Along line 1-7 of HES 480 over unlisted open level
 land.

8.47 To Cor. No. 5.

Deposit a malpais stone 8x8x6 ins., marked with a +
 14 ins. in the ground, over which set a malpais stone
 24x10x6 ins., chiseled + for the point and 5 HES. 596
 on W. face; raise a mound of stone 2 ft. base, 1-1/2
 ft. high W. of Cor., whence:

A pine 12 ins. dia. brs. S. 40°13' W. 212 lks.

A pine 12 ins. dia. brs. S. 42°50' E. 187 lks.

Each blazed and scribed 5 HES 596 + BT.

Cor. No. 7 of HES. 480, previously described,
 bears S. 32°04' E. 29.69 chs. dist. by direct
 measurement.

6.

APACHE NATIONAL FOREST

STATE OF ARIZONA

Chains

Thence S. 53°06' W.

Over gently rolling land through edge of pine timber over unlisted land.

23.25 Fence bears N. 32°15' E. and S. 32°15' W.

23.32 To Cor. No. 6, at Cor. of fence. Fence bears S. 79°30' W. and N. 32°15' E.

Identical with Cor. H/4 of the list 3-3263, which is a malpais stone 12x8x6 ins. above ground, marked and witnessed as described by the Forest Service. I destroy all trace of this list Cor.

Deposit a malpais stone 8x8x3 ins., marked with a + 14 ins. in the ground, over which set a malpais stone 24x10x6 ins., chiseled + for the point and 6 HES 596 on N. face; raise a mound of stone 2 ft. base 1-1/2 ft. high N. of Cor. whence:

A pine 24 ins. dia. brs. S. 76°30' E. 94 lks.

A pine 10 ins. dia. brs. S. 44°55' W. 112 lks.

Each blazed and scribed 6 HES 596 + BT.

Thence N. 80°25' W.

Over gently rolling land through scattering pine.

6.66 Arroyo 10 lks. wide, 2 ft. deep. Course NW.

29.44 Fence bears N. 5°30' W. and S. 5°30' E.

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

AREA

Listed Area - - - - - 148.03 acres

Unlisted Area - - - - - 9.85 "

Total Area - - - - - 157.88 acres

IMPROVEMENTS

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

APACHE NATIONAL FOREST

STATE OF ARIZONA

Chains

A log house 13x12 ft., the long sides extending E. and W., the SE. Cor. of which bears N. 27°48' E. 15.09 chs. from Cor. No. 6.

Value - - - - - \$200.00

A pole corral 100 ft. in dia., the S. post of gate at center on E. side bears N. 29°40' E. 16.80 chs. from Cor. No. 6.

Value - - - - - \$ 75.00

About two miles of wire fencing on boundaries of claim.

Value - - - - - \$300.00

DESCRIPTION

The claim occupies a wide open flat with a general slope to the N. The drainage is to the East near the north boundary of the claim and flows into Beaver Creek. Approximately 120 acres are suitable for agricultural purposes, of which about 50 acres have been under cultivation. During ordinary years the agricultural area would be a natural hay meadow.

The soil is a rich dark loam and will grow good crops of hay, small grain and vegetables.

At present there is no water on the claim for irrigation. The rainfall is depended upon to grow crops.

Water for domestic use is obtained from a spring on HES. 480, which adjoins this claim on the East.

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: HES. 480 (patented) adjoins this claim on the East. HES. No. 603, surveyed by me on May 31, 1921, adjoins on the West. HES. No. 481 lies about 1/2 mile distant in a northerly direction. HES. 482 lies about 1/2 mile distant in a north-easterly direction and HES. 483 lies about 5/8 of a

HOMESTEAD ENTRY SURVEY NO. 596

APACHE NATIONAL FOREST

8.

STATE OF ARIZONA

Chains. mile distant in an easterly direction.
Espero, Arizona, the nearest post office, lies about 2-1/2 miles distant in a southeasterly direction.
Alpine, Arizona, the nearest trading point, lies about 15 miles distant in a northeasterly direction and is reached by trail.
Springerville, Arizona, the general trading point for this section, lies about 34 miles distant in a northerly direction and is reached by fair wagon road.

TRAVERSES

Course	Dist.	N.	S.	E.	W.
N. 1°47' W.	33.08	33.06			1.03
S. 89°39' E.	48.99		.30	48.99	
S. 14°37' W.	16.99		16.44		4.29
S. 32°04' E.	8.47		7.18	4.50	
S. 53°06' W.	23.32		14.00		18.65
N. 80°25' W.	29.90	4.98			29.48
		38.04	37.92	53.49	53.45

Error in Lat. & Dep. 12 04

Closing Error 1/1270

UNLISTED AREA

Course	Dist.	N.	S.	E.	W.
S. 32°04' E.	8.47		7.18	4.50	
S. 53°06' W.	23.32		14.00		18.65
N. 33°45' E.	25.47	21.18		14.15	
		21.18	21.18	18.65	18.65

TIE COR. NO. 1 TO 1/4 COR./24.

Course	Dist.	N.	S.	E.	W.
S. 44°25' W.	25.02		17.87		17.51
N. 88°35' W.	25.01	.62			25.00
N. 0°26' E.	30.37	30.37		.23	
		30.99	17.87	.23	42.51
		17.87			.23
		13.12			42.28

Resultant Course N. 72°45'37" W. 44.27

Survey completed May 30, 1921.

Thomas J. 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. 596, STATE OF ARIZONA

8-2349

CORNERS.	BEARING.	DISTANCE.	LATITUDES.		DEPARTURES.		DOUBLE M. D.	N. AREAS.		S. AREAS.	
			NORTH.	SOUTH.	EAST.	WEST.					
1 - 2	N. 1°47' W.	33.08	33 06 ²			1 03 ⁴	1 04	34 35			
2 - 3	S. 89°39' E.	48.99		30 ⁴	48 99 ⁷		48 97			16 65	
X 3 - 4	S. 14°37' W.	16.99		16 44 ³		4 29	93 65			1540 54	
X 4 - 5	S. 32°04' E.	8.47		7 18	4 50		93 86			673 91	
X 5 - 6	S. 53°06' W.	23.32		14 00		18 65	79 71			1117 53	
X 6 - 1	N. 80°25' W.	29.90	4 98 ⁶			29 48 ⁷	31 57	156 59			
		160.75	38 04	37 92 ⁹	53 49 ⁷	53 45 ⁴		190 94		3348 63	
	Error in Lat. and Dep.		37 99	12		04				190 94	
X	Closing Error 1/1270									20/3159 69	
										157 88	acres E
					Unlisted Area						
	S. 32°04' E.	8.47		7 18	4 50		32 80			235 50	
	S. 53°06' W.	23.32		14 00		18 65	18 65			261 10	
	N. 33°45' E.	25.47	21 18		14 15		14 15	299 70			
										496 60	
										299 70	
										20/ 196 90	
										9 85	acres E

259

6

APPROVAL

Office of the United States Surveyor General,

Phoenix, Arizona, June 20, 1922

The foregoing field notes of Homestead Entry Survey No.

596

executed by Thomas G. Myers

[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.



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.