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U. S. DEPARTMENT OF AGRICULTURE
FOREST SERVICE

OCT 20 1918

48-3-910

FIELD NOTES

OF

HOMESTEAD ENTRY SURVEY NO. 535

SITUATED IN THE CORONADO NATIONAL FOREST

ADMINISTRATIVE DISTRICT NO.

In Section 28, unsurveyed, Township 23 S, Range 19 E.

In Section 29, unsurveyed, Township 23 S., Range 19 E.

and U. S. L. M. No. 535, H. E. S.

(copy for list)

of the

Gila and Salt River Base and Meridian.

State of

ARIZONA

Applicant for listing Benjamin F. Brooks,

Residence Sunnyside, Arizona

Application No. 261, dated March 13, 1913

List No. 3-2891, dated November 1, 1913

Applicant for survey J. A. Jones,

Residence Sunnyside, Arizona.

H. E. No. 032596, dated February 23, 1917

Office
Land District Phoenix, Arizona.

Survey executed by C. A. Long, Surveyor - Forest Service
[Forest Service Title.]

Under special instructions dated March 28, 1917

Survey commenced May 29, 1917

Survey completed May 30, 1917

Under Acts of June 11, 1906 and August 11, 1916



OATH OF ASSISTANTS

We hereby certify that we assisted **C. A. Long,**
Surveyor - Draftsman in surveying all those
[Forest Service Title.]
parts or portions of Homestead Entry Survey No. **535**, 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 inconven-
ient to appear before an
officer to administer oaths
to Assistants; hence, they
were taken by the Surveyor.

[Signature]

Chainman
[Signature]

Chainman

Subscribed and sworn to before me this **thirtieth** day of
May, 1917.

[Signature]

Surveyor - Forest Service

OATH OF SURVEYOR

I, **C. A. Long,** 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
March 28, 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 **PATENT**, No. **3-2891**, dated **November 1**, 1913, for
the same to be known as Homestead Entry Survey No. **535**,
situated within the **CORONADO** National Forest, in
unsurveyed Section 28, Township **23 S**, Range **19 E**, and
unsurveyed Section 29, Township **23 S**, Range **19 E**,

of the **G. and S. R. B. 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.

[Signature]

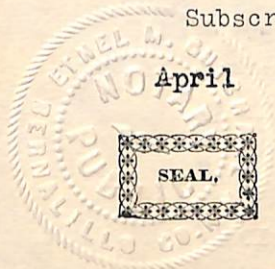
Surveyor - Forest Service

[Forest Service Title.]

Subscribed and sworn to before me this **first** day of
April, 1918.

[Signature]

Notary Public



8-2349

My Com. expires March 17, 1921.

CORONADO NATIONAL FOREST

STATE OF ARIZONA.

Chains Applicant for listing, Benjamin F. Brooks; Application No. 261, dated March 3, 1913; List No. 3-2891, dated November 1, 1913; H. E. 032596, made in the Phoenix Land Office on February 23, 1917, by J. A. Jones.

Surveyed under special instructions from the Surveyor General for Arizona, dated March 28, 1917, and designated as Homestead Entry Survey No. 535.

Situated in what will probably be, when surveyed, secs. 28 and 29, T. 23 S., R. 19 E., Gila and Salt River Base and Meridian, within the Coronado National Forest, Arizona.

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

Survey commenced May 29, 1917, 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, 1917.

At Cor. H-2 of the list survey, and what will be cor. No. 1 of this survey, hereinafter described, at 6h. 31m. p.m., l.m.t., I observe Polaris with telescope direct, reading an angle of $48^{\circ} 49'$ from star to right to a reference mark about 3 miles distant.

HOMESTEAD ENTRY SURVEY NO. 535

CORONADO NATIONAL FOREST

STATE OF ARIZONA.

Chains Lat. $31^{\circ} 24' 30''$ N., Longitude $110^{\circ} 25' W.$, from Hereford
Quadrangle, U. S. Geological Survey.

Greenwich m.t. U.C. Pol., May 29, 1917 9h. 04.4m. a.m.

Longitude Correction, 01.2m.
l.m.t. U.C. Pol., May 29, 1917 9h. 03.2m. a.m.

Astron. l.m.t. U.C. Pol., May 28, 1917 21h. 03.2m.
+12h. 00.0m.

Astron. l.m.t. of obsn., May 28, 1917 30h. 31.0m.

Hour Angle, 9h. 27.8m.

Azimuth of Pol. at obsn., $0^{\circ} 48' 30''$

Bearing of reference mark, N. $48^{\circ} 00' 30''$ E.

At 6h. 34m. p.m., l.m.t., I again observe Polaris
with telescope reversed, reading an angle of
 $48^{\circ} 48'$ from star to right to the same reference
mark.

Astron. l.m.t. U.C. Pol., May 28, 1917 21h. 03.2m.

Astron. l.m.t. of obsn., May 28, 1917 30h. 34.0m.

Hour Angle, 9h. 30.8m.

Azimuth of Pol. at obsn. $0^{\circ} 47' 41''$.

Bearing of reference mark, N. $48^{\circ} 00' 19''$ E.

The mean bearing of reference mark as determined from the
two observations is N. $48^{\circ} 00' 25''$ E., and from the
corresponding meridian all the courses of this survey
were deflected.

May 30, 1917.

There being no Public Land Corner, U. S. L. M. or U. S.
Mineral Monument within prescribed limits to tie the
claim to, (U. S. L. M. No. 290 H. E. S. is over two
miles dist.) I establish U. S. L. M. No. 535 H. E. S.
as follows:

CORONADO NATIONAL FOREST

STATE OF ARIZONA

Chains

On the crest of a long narrow wooded ridge running N. 30° 00' E. and S. 30° 00' W. and 2.00 chs. East of a road to Sunnyside post office, I deposit a sandstone 3 x 6 x 6 ins. marked with a +, 18 ins. in the ground, over which set a sandstone 6 x 16 x 26 ins. marked + on top and U S L M 535 H E S on E. face; East of monument and 6 ft. dist., raise a mound of stone 6 ft. base, 5 ft. high, whence:

A juniper, 30 ins. dia., bears N. 20° 25' E., 229 lks. dist.

A white oak, 16 ins. dia., bears N. 10° 20' W., 156 lks. dist.

A white oak, 16 ins. dia., bears N. 89° 00' W., 191 lks. dist.

Each blazed and scribed U S L M 535 H E S + B T.

House at Sunnyside bears N. 48° 10' E., approximately 1-1/2 miles.

High point on NW. end of Lone Mountain bears S. 73° 00' E., approximately 1 mile.

Sharp peak bears N. 21° 30' E., approximately 2-1/2 miles.

Santa Rita Peak (Old Baldy) bears N. 52° 10' W., approximately 30 miles.

Low round peak on SE. end of Canela Hills bears N. 54° 40' W., approximately 6 miles.

Peak bears S. 78° 30' E.

Peak bears S. 68° 30' E.

NW. cor. of adobe house occupied by J. A. Jones bears S. 16° 35' E., approximately 1/2 mile.

Cor. No. 4 of H. E. S. No. 536 bears N. 23° 41' W., 18.20 chs. dist., by traverse which appears at the end of these notes.

Chains

BOUNDARIES OF CLAIM

May 30, 1917.

Beginning at cor. No. 1.

Identical with cor. H-2 of the list survey, which is a limestone 6 x 15 x 24 ins. above ground, marked and witnessed as described by the Forest Service. I destroy all trace of this list cor. and in the same place deposit a sandstone 3 x 6 x 6 ins. marked with a +, 24 ins. in the ground, over which I set an iron post 2 ins. dia., 36 ins. long, with brass cap marked 1917 on S. quadrant and 1 - H E S 535 on SE. quadrant; raise a mound of stone 3 ft. base, 2 ft. high, 3-1/2 ft. dist. SE. of cor.

No witnesses within limits. Pits impracticable.

U. S. L. M. No. 535 H. E. S., heretofore de-

scribed, bears N. 11° 40' W., 42.15 chs. dist., by traverse which appears at the end of these notes.

Lat. 31° 24' 30" N., Long. 110° 25' W., from Herford

Quadrangle, U. S. G. S.

The observed magnetic declination at 8:00 a.m. is 13° 00' E., which corrected for diurnal change gives a mean magnetic declination of 12° 57' E.

Thence S. 71° 13' E.

Descend 35 ft. over gradual E. slope, through dense oak brush.

0.20 Dim road, bears NW. and SE.

6.40 Enter bottom land.

9.00 Wash in canyon, 20 lks. wide, course S. 20° 00' W.

Bottom of descent. Ascend 25 ft. to cor. over gradual W. slope.

9.40 Leave bottom land. Begin steep ascent of bank.

9.60 Top of bank; thence over mesa.

10.09 To cor. No. 2.

CORONADO NATIONAL FOREST

STATE OF ARIZONA

Chains

Identical with cor. H-3 of the list survey, which is a limestone 6 x 8 x 18 ins. above ground, marked and witnessed as described by the Forest Service. I destroy all trace of this list cor. Deposit a sandstone 2 x 4 x 7 ins. marked with a +, 24 ins. in the ground, over which set an iron post 2 ins. dia., 36 ins. long, with brass cap marked 1917 on S. quadrant and 2 - H E S 535 in SW. quadrant; and raise a mound of stone 3 ft. base, 2 ft. high SW. of cor., whence:

A black oak, 12 ins. dia., bears S. 41°
30' E., 34 lks. dist.

A white oak, 14 ins. dia., bears N. 27°
00' W., 42 lks. dist.

Each blazed and scribed 2 H E S + 535 B T.

Thence S. 21° 22' W.

Descend 80 ft. to cor. along steep West-slope, through dense oak brush.

58.03 To cor. No. 3.

Deposit a porphyry stone 2 x 2 x 3 ins. marked with a +, 24 ins. in the ground, over which set an iron post 2 ins. dia., 36 ins. long, with brass cap marked 1917 on S. quadrant and 3 - H E S 535 in NW. quadrant; and raise a mound of stone 4 ft. base, 3 ft. high NW. of cor., whence:

A black oak 8 ins. dia., bears S. 67°
45' W., 100 lks. dist.

A black oak, 6 ins. dia., bears N. 15°
10' E., 118 lks. dist.

Each blazed and scribed 3 H E S + 535 B T.

Cor. H-4 of the list survey, which is a granite stone 6 x 8 x 18 ins. above ground, marked and witnessed as described by the

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CORONADO NATIONAL FOREST

STATE OF ARIZONA

Chains Forest Service, bears N. 71° 13' W., 10 lks. dist. I. destroy all trace of this list cor.

Thence N. 71° 13' W.
Over bottom land, through scattering oak.

1.25 Wash, 30 lks. wide, course S. 30° 00' W.

1.95 Wire fence bears N. 22° 00' E. and S. 22° 00' W.

10.09 To cor. No. 4.

Identical with cor. H-1 of the list survey, which is a granite stone 7 x 8 x 26 ins. above ground, marked and witnessed as described by the Forest Service. I destroy all trace of this list cor. Deposit a porphyry stone 2 x 4 x 5 ins. marked with a +, 24 ins. in the ground, over which set an iron post, 2 ins. dia., 36 ins. long, with brass cap, marked 1917 on S. quadrant and 4 - H E S 535 in NE. quadrant; and raise a mound of stone 3 ft. base, 2 ft. high NE. of cor., whence:

A black oak, 16 ins. dia., bears S. 81° 10' E., 181 lks. dist.

A white oak, 20 ins. dia., bears N. 10° 45' E., 104 lks. dist.

Each blazed and scribed 4 H E S + 535 B T.

Thence N. 21° 22' E.

Ascend 65 ft. to cor. over gradual E. slope, through dense oak brush.

58.03 To cor. No. 1, the place of beginning.

AREA

Total Area - - - - - 58.48 acres

Chains

IMPROVEMENTS

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

An adobe house, 16 x 30 ft., course of long sides E. and W., the NE. cor. of which bears N. 89° 43' W., 4.45 chs. dist. from cor. No. 2.

Value - - - - - \$150.00

A tent house, 10 x 12 ft., course of long sides N. and S., the NW. cor. of which bears S. 85° 40' W., 3.30 chs. dist. from cor. No. 2.

Value - - - - - \$ 25.00

A windmill, over a dug well 25 ft. deep, the center of which bears N. 84° 40' W., 1.77 chs. dist. from cor. No. 2.

Value of well and windmill \$300.00

About 1-1/2 miles of barbed wire fencing.

Value - - - - - \$ 200.00

Total value of improvements - - - - - \$ 675.00

DESCRIPTION

This claim is located in a narrow canyon draining Southwest. The hills, which are covered with a dense growth of oak brush and scattering oak timber, rise gently from the E. and W. sides of the canyon. The soil along the bottom lands is a brown sandy loam, first rate, and produces fairly good crops of corn and beans.

About 25 acres are now under cultivation and possibly 10 acres more could be farmed. The remaining area is hillside land, suitable for pasture land only.

A dug well, 25 ft. deep, furnishes ample water for domestic purposes & for watering about 50 head of stock. There were no indications of mineral upon the claim.

HOMESTEAD ENTRY SURVEY NO. 535

8.

CORONADO NATIONAL FOREST

STATE OF ARIZONA

Chains

CONFLICTS AND ADJOINING CLAIMS

There are no conflicts or adjoining claims.

Sunnyside, Arizona, the nearest post office is about 1- $\frac{1}{2}$ miles north of the claim. Elgin, Arizona, the nearest railway station is about 25 miles NW. and is reached by a rough wagon road. H. E. S. 536 is about $\frac{3}{4}$ mile northerly.

TRAVERSE

Cor.	Course	Dist.	N	S	E	W
1-2	S. 71° 13' E.	10.09		3.25	9.55	
2-3	S. 21° 22' W.	58.03		54.04		21.14
3-4	N. 71° 13' W.	10.09	3.25			9.55
4-1	N. 21° 22' E.	58.03	54.04		21.14	
			136.24	57.29	57.29	30.69
					57.29	30.69
Error in Lat. and Dep.				.00	.00	

Closing error, none.

Tie from cor. No. 1 to U S L M

535 H E S

Course	Dist.	N	S	E	W
N. 42° 43' W.	1.52	1.12			1.03
N. 62° 53' W.	10.78	4.91			9.60
N. 3° 26' E.	35.31	35.25		2.11	
		41.28		2.11	10.63
S. 11° 40' E.	42.15		41.28	8.52	
		41.28	41.28	10.63	10.63

Tie from U S L M No. 535 H E S

to Cor. No. 4 H.E.S. 536

Course	Dist.	N	S	E	W
N. 38° 13' W.	41.14	32.32			25.45
S. 49° 13' E.	23.96		15.65	18.14	
		32.32	15.65	18.14	
S. 23° 41' E.	18.20		16.67	7.31	
		32.32	32.32	25.45	25.45

Survey completed May 30, 1917.

[Signature]
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.
 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. 535, STATE OF ARIZONA

8-2740

CORNERS.	BEARING.	DISTANCE.	LATITUDES.		DEPARTURES.		DOUBLE M. D.		N. AREAS.		S. AREAS.	
			NORTH.	SOUTH.	EAST.	WEST.						
1 - 2	S 71° 15' E	10.09		3 25 ✓	9 55 ✓			51 83 ✓			168 45 ✓	
2 - 3	S 21° 22' W	58.03		54 04 ✓		21 14 ✓		40 24 ✓			2174 57 ✓	
3 - 4	N 71° 13' W	10.09	3 25 ✓			9 55 ✓		9 55 ✓	31 04 ✓			
4 - 1	N 21° 22' E	58.03	54 04 ✓		21 14 ✓			21 14 ✓	1142 41 ✓			
		136.24	57 29	57 29	30 69	30 69			1173 45		2343 02	
											1173 45	
											20/1169 57	
											58.48	
											58.48 Acres a.c.t.	
			Closing error 0.									
			Tie from cor. No. 1 to U S L M 535 H E S									
	N 42° 45' W	1.52	1 12 ✓					1 03 ✓				
	N 62° 53' W	10.78	4 91 ✓					9 60 ✓				
	N 3° 26' E	35.31	35 25 ✓			2 11 ✓						
			41 28 ✓			2 11 ✓	10 63					
	S 11° 40' E	42.15 ✓		41 28	8 52							
			41 28	41 28	10 63	10 63					a.c.t.	
			Tie from U S L M No. 535 H E S to Cor. No. 4 H. E. S. 536									
	N 38° 13' W	41.14	32 32 ✓					25 45 ✓				
	S 49° 13' E	23.96		15 65 ✓	18 14 ✓							
			32 32	15 65	18 14							
	S 23° 41' E	18.20 ✓		16 67	7 31							
			32 32	32 32	25 45	25 45					a.c.t.	

APPROVAL

Office of the United States Surveyor General,

Phoenix, Arizona, April 10, 1920

The foregoing field notes of Homestead Entry Survey No.

535

executed by *C. A. Long, Surveyor* [Forest Service Title.]
under his special instructions, dated *March 28*, 1917, 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.