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ORIGINAL
U. S. DEPARTMENT OF AGRICULTURE
FOREST SERVICE

125

APR 8 1920

APR-8 1920

FIELD NOTES

OF

HOMESTEAD ENTRY SURVEY NO. 539

SITUATED IN THE CORONADO NATIONAL FOREST

ADMINISTRATIVE DISTRICT NO. 3

In Section 11 , Unsurveyed, Township 24 S. , Range 19 E.
In Section 14 , Unsurveyed, Township 24 S. , Range 19 E.

of the

GILA AND SALT RIVER BASE & Meridian.

State of

ARIZONA

Applicant for listing Fred Horn,

Residence Nogales, Arizona.

Application No. 103 , dated March 21 , 1908

List No. 3-43 , dated February 24 , 1909

Applicant for survey John P. Chapman.

Residence Nogales, Arizona.

H. E. No. 029158 , dated January 7 , 1916

Office
Land District , Phoenix, Arizona.

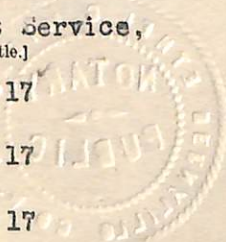
Survey executed by C. A. Long, Surveyor - Forest Service,
[Forest Service Title.]

Under special instructions dated March 28 , 1917

Survey commenced May 24 , 1917

Survey completed May 25 , 1917

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



OATH OF ASSISTANTS

We hereby certify that we assisted **C. A. Long,**
Surveyor - Forest Service, in surveying all those
[Forest Service Title.]

parts or portions of Homestead Entry Survey No. **539**, 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.

W. J. ...

Chainman.

H. Washburn

Chainman.

Subscribed and sworn to before me this **25th** day of
May, 19**17**.

C. A. Long

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, 19**17**, 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. **3-43**, dated **February 24**, 19**09**, for
Patent, under the Act of **June 11**, 19**06**,
the same to be known as Homestead Entry Survey No. **539**,
situated within the **CORONADO** National Forest, in
Unsurveyed Section 11, Township **24 S.**, Range **19 E.**, and
Unsurveyed Section 14, Township **24 S.**, Range **19 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.

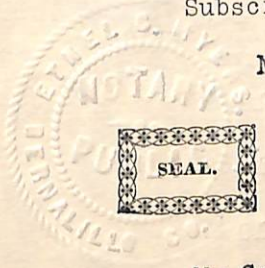
C. A. Long

Surveyor - Forest Service
[Forest Service Title.]

Subscribed and sworn to before me this **30th** day of
November, 19**18.**

Ethel G. Myers

Notary Public.



CORONADO NATIONAL FOREST
STATE OF ARIZONA

Chains Applicant for listing, Fred Horn; Application No. 105, dated March 21, 1908; List No. 3-43, dated February 24, 1909; H. E. 029158 made in the Phoenix Land Office on January 7, 1916, by John P. Chapman.

Surveyed under special instructions from the Surveyor General for Arizona, dated March 28, 1917, and designated as Homestead Entry Survey No. 539.

Situated in what will probably be when surveyed, secs. 11 and 14, T. 24 S., R. 19 E. Gila and Salt River Base and Meridian, Coronado National Forest, Arizona.

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

Survey commenced May 24, 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 24, 1917.

At Cor. H-1 of the list survey and what will be Cor. No. 1 of the survey hereinafter described at 6h. 37m. 30s. p.m., l.m.t., I observe Polaris with telescope direct, reading an angle of $31^{\circ} 12' 30''$ from star to right, to a reference mark about 3 miles dist. Latitude $31^{\circ} 21' 00''$ N., Longitude $110^{\circ} 22' 40''$ W., from U.S.G.S. sheet of Hereford Quadrangle.

HOMESTEAD ENTRY SURVEY NO. 539

CORONADO NATIONAL FOREST

STATE OF ARIZONA

Chains Greenwich m.t. U.C. Pol. May 24, 1917, 9h. 24.0m. a.m.
 Longitude correction 1.2m.
 l.m.t. U.C. Pol. May 24, 1917, 9h. 22.8m.
 +12h. 00.0m.
 Astron. l.m.t. U.C. Pol. May 23, 1917 21h. 22.8m.
 Astron. l.m.t. of obsn. May 23, 1917 30h. 37.5m.
 Hour angle 9h. 14.7m.
 Azimuth of Pol. at obsn. 0° 51' 58" W.
 Bearing of reference mark N. 30° 20' 32" E.
 At the same point at 6h. 39m. p.m., l.m.t. I again observe Polaris with telescope reversed, reading an angle of 51° 13' from star to right, to the same reference mark.
 Astron. l.m.t. U.C. Pol. May 23, 1917 21h. 22.8m.
 Astron. l.m.t. of obsn. May 23, 1917 30h. 39.0m.
 Hour angle 9h. 16.2m.
 Azimuth of Pol. at obsn. 0° 51' 35" W.
 Bearing of reference mark N. 30° 21' 25" E.
 The bearing of reference mark as determined by taking the mean of the two observations is N. 30° 20' 58" E. and to the corresponding meridian all the courses of this survey were referred;

May 24, 1917.

BOUNDARIES OF CLAIM

Beginning at Cor. No. 1.

Identical with cor. H-1 of the list survey which is a sandstone 22 x 10 x 6 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 porphyry stone, 1 x 3 x 4 ins. marked with a + 24 ins. in the ground, over which set an iron post, 2 ins. dia. 36 ins. long with brass cap,

CORONADO NATIONAL FOREST

STATE OF ARIZONA

Chains marked 1917 on S. and 1 H E S 539 on N.

Raise a mound of stone 4 ft. base 3 ft. high N. of cor. whence;

A White oak 16 ins. dia. bears S. $9^{\circ} 05' E.$ 97 lks. dist.

A Walnut 12 ins. dia. bears S. $74^{\circ} 35' E.,$ 107 lks. dist.

Each blazed and scribed 1 H E S + 539 B T.

International Boundary monument No. 105 which is an iron post, $1-1/2 \times 1-1/2 \times 7$ ft. above ground, firmly set on a concrete pedestal, and marked and witnessed as described by the Surveyor General, bears S. $26^{\circ} 14' W.$ 98.95 chs. dist.

by traverse which appears at end of these notes.

Cor. No. 2 H E S 532 which is a sandstone in place showing $2 \times 3 \times 3$ ft. above ground, marked 2 H E S 532 bears S. $7^{\circ} 27' E.$ 52.71 chs. by traverse which appears at end of these notes.

The observed magnetic declination at 8 a.m. is $13^{\circ} 00' E.$ which corrected for diurnal change gives a mean magnetic declination of $12^{\circ} 57' E.$

Latitude $31^{\circ} 21' N.,$ Longitude $110^{\circ} 22' 40'' W.,$ from U.S.G.S. sheet of Hereford quadrangle.

Thence N. $44^{\circ} 36' W.$

Ascend 25 ft. to cor. over gradual NE. slope, through scattering oak.

11.50 Dim road bears NE. and SW.

13.00 Draw, course NE.

31.00 To Cor. No. 2.

Identical with cor. H-2 of the list survey, which is a sandstone $20 \times 10 \times 7$ ins. above ground, marked and witnessed as described by the Forest Service. I

Chains

destroy all trace of this list cor. and in the same place deposit a sandstone 3 x 4 x 4 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. and 2 H E S 539 in NE. quadrant, raise a mound of stone 4 ft. base 3 ft. high NE. of cor., whence;

A Black oak 12 ins. dia. bears N. 30° 20' E., 304 lks. dist.

A Black oak, 12 ins. dia. bears N. 86° 10' E. 286 lks. dist.

Each blazed and scribed 2 H E S + 539 B T.

Thence N. 22° 44' W.

Descend 10 ft. over open, gently rolling E. slope.

0.15 Cor. of wire fence from which fence bears N. 22° 44' W. and S. 45° 00' E.

2.50 Draw course N. 75° 00' E., bottom of descent, ascend 35 ft. to cor. over gently rolling E. slope.

27.50 Cross wire fence bears S. 23° 00' E. and N. 23° 00' W.

28.00 To Cor. No. 5.

Identical with cor. H-5 of the list survey, which is a sandstone 14 x 8 x 6 ins. above ground, marked and witnessed as described by the Forest Service. I destroy all trace of this list cor.

Deposit a sandstone 1 x 2 x 4 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. and 3-H E S 539 on E, raise a mound of stone 3 ft. base 2 ft. high E. of cor., whence;

A Juniper, 30 ins. dia. blazed and scribed 3

H E S + 539 B T bears S. 25° 50' E., 441

CORONADO NATIONAL FOREST

STATE OF ARIZONA.

Chains

lks. dist.

No other bearing trees or objects available.

May 24, 1917.

May 25, 1917.

Thence N. 29° 33' E.

Descend 30 ft. over open E. slope along SE. side of wire fence, 5 lks. distant and paralleling line.

2.93 Cut off fence bears NW. and SE.

6.00 Enter edge of plowed land.

17.66 Wire fence bears NW. and SE. Leave plowed land.

18.00 Cross wire fence bears N. 30° 00' E., and S. 30° 00' W.

Continue along NW. side of same.

21.00 Wash 60 lks. wide, course SE. Enter scattering sycamore.

22.00 To Cor. No. 4.

Deposit a sandstone 2 x 4 x 5 ins. marked with a + 16 ins. in the ground, over which set a sandstone 12 x 12 x 24 ins. chiseled + for the point and 4 H E S 539 on S. face; raise a mound of stone 4 ft. base, 3 ft. high. S. of cor., whence:

A walnut 16 ins. dia. bears N. 79° 10' E.

188 lks. dist.

An ash 24 ins. dia. bears S. 37° 40' E.

48 lks. dist.

Each blazed and scribed 4 H E S + 539 B T.

Cor. No. 3 of H. E. S. 301, which is a limestone

11 x 11 x 10 ins. above ground, bears N. 72°

34' W., 6.44 chs. dist. by direct measurement.

Witness Cor. H-4 of the list survey, which is a

sandstone 22 x 8 x 6 ins. marked and witnessed

as described by the Forest Service, bears N.

29° 33' E. 50 lks. dist. I destroy all trace

of this list cor.

Chains	Thence S. 44° 36' E. Ascend 75 ft. to cor. over rolling W. slope, through scattering oak.
0.54	Wire fence bears E. and W.
8.10	Road bears N. and S.
17.90	Arroyo 15 lks. wide 5 ft. deep, course SW.
50.00	Leave scattering oak, thence over open mesa land.
54.15	To Cor. No. 5. Identical with Cor. H-5 of the list survey, which is a sandstone 20 x 13 x 6 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 5 x 7 ins. marked with a + 17 ins. in the ground, over which set a porphyry stone 8 x 8 x 27 ins. chiseled + for the point and 5 H E S 539 on W. face; raise a mound of stone 4 ft. base, 3 ft. high W. of cor., whence: A white oak 6 ins. dia. bears S. 57° 50' E. 184 lks. dist. A black oak, 16 ins. dia. bears N. 69° 00' E. 372 lks. dist. Each blazed and scribed 5 H E S + 539 B T.
	Thence S. 29° 47' W. Descend 110 ft. over open mesa.
12.00	Begin steep descent of SW. slope. Enter scattering timber.
15.00	Foot of steep descent.
27.20	Wire fence bears NW. and SE.
31.00	Wash 100 lks. wide, course S. 60° 00' E., bottom of descent. Ascend 10 ft. to cor.
32.75	To Cor. No. 1, the place of beginning.

CORONADO NATIONAL FOREST

STATE OF ARIZONA

Chains

AREA

Total area - - - - - 158.76 Acres

IMPROVEMENTS

The improvements made upon the claim and belonging to the claimant herein consist of the following;

An L shaped adobe house, 32 ft. on W. 32 ft. on N. and 16 ft. on E. and S. ends. The SE. Cor. of which bears N. 17° 43' E., 8.67 chs. dist. from Cor. No. 1.

Value - - - - - \$200.00

An adobe store house 12 x 24 ft., course of long sides E. and W., the SE. Cor. of which bears N. 23° 40' W. 13.08 chs. dist. from Cor. No. 1.

Value - - - - - \$ 75.00

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

Value - - - - - \$500.00

Total value of improvements - - - - - \$575.00

DESCRIPTION

This claim is located in a rolling valley, through which runs an intermitent stream. Springs near the house furnish permanent water for domestic use and for watering about 400 head of cattle. Scattering scrub oak is the only timber on the claim.

The soil is a brown adobe, first rate. 90% of the area is suitable for dry farming. However, there is now only about 30 acres under cultivation, which produces good crops of forage, beans and corn. No indications of mineral were observed on the claim

CONFLICTS AND ADJOINING CLAIMS.

There are no conflicts. H E S No. 301 is nearby to the North. H E S No. 532 is 3/4 miles to the South,

Chains and H E S 302 is about 15 chs. to the East.
Nogales, Arizona, the nearest postoffice, railway station and trading place, is 35 miles to the West.

TRAVERSES.

Cor.	Course	Dist.	N.	S.	E.	W.
1-2	N. 44° 36' W.	31.00	22.07			21.77
2-3	N. 22° 44' W.	28.00	25.82			10.82
3-4	N. 29° 33' E.	22.00	19.14		10.85	
4-5	S. 44° 36' E.	54.15		38.56	38.02	
5-1	S. 29° 47' W.	52.75		28.42		16.27
			167.90	67.03	66.98	48.87
				66.98		48.86
Error-in Lat. and Dept.				.05		.01

Closing error, 1:3286

TIE FROM COR. 1-H E S 539 TO COR. 2-H E S 532.

Course	Dist.	N.	S.	E.	W.
S. 1° 18' W.	9.57		9.57		.22
S. 9° 53' E.	43.33		42.69	7.44	
S. 89° 43' W.	0.38				.38
			52.36	7.44	.60
N. 7° 27' W.	52.71			6.84	

TIE FROM COR. 1-H E S 539 TO INTERNATIONAL BDY.

Course	Dist.	N.	S.	E.	W.
S. 1° 18' W.	9.57		9.57		.22
S. 9° 53' E.	43.33		42.69	7.44	
S. 89° 43' W.	0.38				.38
S. 49° 43' W.	54.99		35.55		41.95
S. 0° 17' E.	0.91		.91		
S. 89° 43' W.	8.64		.04		8.64
			88.76	7.44	51.19
					7.44
N. 26° 14' E.	98.95				43.75

Survey completed May 25, 1917.

[Signature]
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. 539, STATE OF ARIZONA

8-2349

CORNERS.	BEARING.	DISTANCE.	LATITUDES.		DEPARTURES.		DOUBLE M. D.	N. AREAS.	S. AREAS.	
			NORTH.	SOUTH.	EAST.	WEST.				
1-2	N. 44° 36' W	31.00	22 07 ⁰⁶			21 77	43 41	957 62		
2-3	N. 22° 44' W	28.00	25 82			10 82	10 82	279 37		
3-4	N. 29° 33' E	22.00	19 14		10 85		10 85	207 67		
4-5	S. 44° 36' E	54.15		38 56 ⁵⁴	38 02 ⁰¹		59 71		2304 21	
5-1	S. 29° 47' W	32.75		28 42 ²⁹		16 27	81 45		2315 62	
		167.90	67 03	66.98	48 87	48 86		1444 66	4619 83	
			67 02	67 02	48 86	48 86			1444 66	
									20/3175 17	
									1587 58	158.76
		Closing error 1:3286								

135

APPROVAL

Office of the United States Surveyor General,

Phoenix, Arizona, April 10, 1920

The foregoing field notes of Homestead Entry Survey No.

539

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. Trotti
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. TROTTI
U. S. Surveyor General.