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ORIGINAL

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U. S. DEPARTMENT OF AGRICULTURE  
FOREST SERVICE

JAN 7 1919

MAR 23 1920

FIELD NOTES

OF

HOMESTEAD ENTRY SURVEY NO. 522

SITUATED IN THE CORONADO NATIONAL FOREST

ADMINISTRATIVE DISTRICT NO. 3

In Section 12, unsurveyed, Township 24 S., Range 16 E.

of the

Gila and Salt River Base and Meridian.

State of

ARIZONA

Applicant for listing C. A. Jesson,

Residence Duquesne, Arizona

Application No. 301, dated January 19, 1914

List No. 3-3118, dated March 30, 1914

Applicant for survey Harold Glen Lehan,

Residence Duquesne, Arizona

H. E. No. 025629, dated August 22, 1914

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 13, 1917

Survey completed May 14, 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. **522**, 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.

----- *C. A. Long* -----  
**Chainman**  
----- *H. Washburn* -----  
**Chainman**

Subscribed and sworn to before me this **14th** 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**

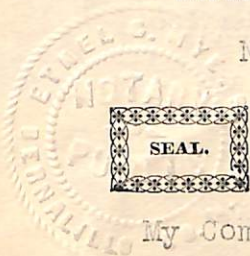
**List**, No. **3-3118**, dated **March 30**, 19**14**, for  
**PATENT**, under the Act of **June 11**, 19**06**,  
the same to be known as Homestead Entry Survey No. **522**,  
situated within the **CORONADO** National Forest, in  
**un** surveyed Section **12**, Township **24 S.**, Range **16 E.**, and  
surveyed Section , Township , Range ,

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.

----- *C. A. Long* -----  
**Surveyor-Forest Service**  
[Forest Service Title.]

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

----- *Echel G Myers* -----  
**Notary Public**



My Commission expires March 17, 1921.



HOMESTEAD ENTRY SURVEY NO. 522

CORONADO NATIONAL FOREST

1.

STATE OF ARIZONA.

Chains Applicant for listing, C. A. Jesson; Application No. 301, dated January 19, 1914; List No. 3-3118, dated March 30, 1914; H. E. 025629 made in the Phoenix Land Office on August 22, 1914 by Harold Glen Lehan.

Surveyed under special instructions from the Surveyor General for Arizona, dated March 28, 1917, and designated as Homestead Entry Survey No. 522.

Situated in what will probably be when surveyed, sec. 12, T. 24 S., R. 16 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 13, 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 13, 1917.

At the cor. to secs. 1, 6, 7 and 12, T. 24 S., Ranges 16 and 17 E., and what will be cor. No. 1 of this survey, at 6h. 41m. 00s. p.m., l.m.t., I observe Polaris with telescope direct, reading an angle of 39° 48' 30" from star to left, to a reference mark about 3 miles dist.

Latitude 31° 22' N., Longitude 110° 39' 30" W., obtained from U. S. G. S. sheet of Nogales Quadrangle.



2.

CORONADO NATIONAL FOREST

STATE OF ARIZONA.

Chains Greenwich m.t. U.C. Pol., May 13, 1917 10h. 07.1m.a.m.  
 Longitude correction 1.2.m  
 10h. 05.9m.a.m.  
 l.m.t. U. C. Pol., May 13, 1917 + 12h. 00.0m  
 Astron. l.m.t. U. C. Pol., May 12, 1917 22h. 05.9m.  
 Astron. l. m.t. of obsn. May 12, 1917 30h. 41.0m.  
 Hour angle 8h. 35.1m.  
 Azimuth of Pol. at obsn. 1° 01' 40" W.  
 Azimuth of Reference Mark N. 40° 50' 10" W.  
 At the same point at 6h. 43m. 28s. p.m., l.m.t., I again observe Polaris with telescope reversed, reading an angle of 39° 49' 00" from star to left to the same reference mark.

Astron. l.m.t. U.C. Pol., May 12, 1917 22h. 05.9m.  
 Astron. l.m.t. of obsn. May 12, 1917 30h. 43.5m.  
 Hour angle 8h. 37.6m.  
 Azimuth of Pol. at obsn. 1° 01' 07" W.  
 Azimuth of reference mark N. 40° 50' 07" W.  
 The azimuth of reference mark as determined by taking the mean of the two observations is N. 40° 50' 08" W., and from the corresponding meridian all the courses of this survey were deflected.

May 14, 1917

RETRACEMENTS

Beginning at the cor. to secs. 1, 6, 7 and 12, T. 24 S., Ranges 16 and 17 E., which is a granite stone 6 x 6 x 12 ins. above ground, firmly set, marked and witnessed as described by the Surveyor General.  
 Thence South  
 Retracing line bet. secs. 7 and 12, N/2.  
 40.22 Fall 4-1/2 lks. W. of the 1/4 sec. cor. bet. secs. 7 and 12, which is a granite stone 6 x 10 x 12 ins. above ground firmly set, marked and witnessed as described



Chains

by the Surveyor General.

Return course N. 0° 04' W., 40.22 chains.

May 14, 1917.

BOUNDARIES OF CLAIM

Beginning at Cor. No. 1

Identical with the cor. to secs. 1, 6, 7 and 12, heretofore described; also cor. of list survey (cor. not marked for list survey).

I cut a + on top for cor. No. 1 of this survey, and alongside the sec. cor. I deposit a quartz stone 2 x 4 x 4 ins. marked with a + 20 ins. in the ground, over which I set a sandstone 8x10 x 32 ins. marked 1 H E S 522 on SW. face; and raise a mound of stone 3 ft. base, 2 ft. high within the claim, whence:

A black oak 14 ins. dia. bears S. 60° 00' E., 216 lks. dist.

A black oak 10 ins. dia. bears S. 13° 30' E., 137 lks. dist.

Each blazed and scribed 1 H E S + 522 B T.

No suitable witness trees within the claim.

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

Lat. 31° 22' N., Long. 110° 39' 30" W., derived from U. S. G. S. sheet of Nogales Quadrangle.

Thence S. 0° 04' E.

Along line bet. secs. 7 and 12. Desc. 30 ft. over

gradual S. slope through scattering oak brush. The legal subdivisional portion of the tract is on the East.

3.50 Old road, bears N. 60° 00' W. and S. 60° 00' E.

11.00 Begin steep descent of N. bank of draw.



4.

CORONADO NATIONAL FOREST

STATE OF ARIZONA

Chains  
11.50

Bottom of steep descent, thence over bottom land, descending.

12.00 Arroyo, 40 lks. wide, 6 ft. deep, course S. 80° 00' E.

Bottom of descent. Ascend 20 ft. to cor. over bottom land.

16.25 Arroyo, 16 lks. wide, 4 ft. deep, course S. 75° 00' E.

18.75 Begin steep asc. of N. slope. Oak brush becomes dense.

19.98 Wire fence, bears E. and W.

20.11 To cor. No. 2 and C. C. on line. bet. secs. 7 and 12.

Deposit a granite stone 4 x 4 x 6 ins. marked with a + 24 ins. in the ground over which set an iron post 2 in. in dia., 36 ins. long with brass cap, marked 1917 on S., 2 H E S 522 in NW. quadrant and C C on the closing line, and raise a mound of stone 4 ft. base, 3 ft. high West of cor., whence:

A white oak 12 ins. dia. bears S. 20° 15' W.,

27 lks. dist.

A white oak 10 ins. dia., bears S. 68° 00' W.,

38 lks. dist.

Each blazed and scribed C C 2 H E S + 522 B T.

No suitable witness trees within the claim.

The 1/4 sec. cor. bet. secs. 7 and 12, heretofore described bears S. 0° 04' E., 20.11 chs.

Cor. H-1 of the list survey which is a granite stone 12 x 18 x 6 ins. above ground, marked and witnessed as described by the Forest Service bears N. 54° 00'

E., 25 lks. dist. I destroy all trace of this list cor.

Thence West

Ascend 60 ft. to cor. over steep NE. slope through dense oak brush and along S. side of wire fence 20 lks. dist.



Chains	
3.00	Draw, course N. 15° 00' E.,
7.00	Top of steep ascent, bears NW. and SE., brush becomes scattering. Thence over mesa land.
8.50	Old road, bears NW. and SE.
9.70	Corner of wire fence, bears North 10 lks. dist., from which fence bears East and North.
9.90	To cor. No. 3.
	Deposit a porphyry stone 2 x 4 x 7 ins. marked with a + 24 ins. in the ground, over which set an iron post 3-1/2 ins. dia., 36 ins. long, with brass cap, marked 1917 on South and 3 H E S. 522 in NE. quadrant; and raise a mound of stone 4 ft. base, 3 ft. high 3-1/2 ft. dist. NE. of cor., whence:
	A black oak 12 ins. dia., bears S. 10° 30' W., 120 lks. dist.
	A white oak 12 ins. dia., bears N. 87° 20' E., 244 lks. dist.
	Each blazed and scribed 3 H E S + 522 B T.
	Cor. H-2 of the list survey, which is a granite stone 8 x 8 x 16 ins. above ground, marked and witnessed as described by the Forest Service, bears N. 60° 00' E., 15 lks. dist. I destroy all trace of this list cor.
	Thence North
	Ascend 6 ft. over mesa, through scattering oak brush along W. side of wire fence, 10 lks. dist.
1.50	Old road, bears NW. and SE.
2.10	Top of ridge, bears NW. and SE.
	Descend 70 ft. over steep N. slope.
3.75	Foot of steep descent. Thence over bottom land, descending.



6.

CORONADO NATIONAL FOREST

STATE OF ARIZONA.

Chains  
8.50

Arroyo, 20 lks. wide, 6 ft. deep, course S. 80° 00' E.

12.00

Arroyo, 60 lks. wide, 10 ft. deep, course S. 75° 00' E.

Bottom of descent. Ascend 20 ft. to cor. over mesa land.

20.11

To cor. No. 4.  
Deposit a quartz stone 4 x 4 x 6 ins. marked with a + 16 ins. in the ground over which set a sandstone 6 x 8 x 22 ins. (no longer stone available), marked + for the point and 4 H E S 522 on SE. face; and raise a mound of stone 3 ft. base, 2 ft. high, 3-1/2 ft. dist. SE. of cor., whence:

A black oak 14 ins. dia., bears N. 53° 55' W., 340 lks. dist.

A black oak 12 ins. dia., bears N. 35° 00' E., 187 lks. dist.

Each blazed and scribed 4 H E S 522 + B T.  
Cor. H-3 of the list survey, which is a granite stone 12 x 8 x 6 ins. marked and witnessed as described by the Forest Service, bears S. 70° 00' E., 25 lks. dist. Destroy all trace of this list cor.

Thence S. 89° 57' E.

Descend 5 ft. to cor. over mesa land, through scattering oak brush.

0.20

Corner of wire fence, bears South 1 lk., thence along N. side of fence, bearing with line.

4.00

Old road, bears NW. and SE.

9.86

Cross wire fence at cor., from which fences bear North and West.

9.88

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



CORONADO NATIONAL FOREST

STATE OF ARIZONA.

Chains

AREA

Total Area - - - - - 19.89 Acres

IMPROVEMENTS

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

One-half mile of barbed wire fencing,

Value - - - - - \$ 75.00

The claimant's cabin and other improvements are located on his adjoining tract described by the following legal subdivisions:

S/2 SW/4 SW/4 Sec. 6; N/2 NW/4, W/2 NW/4 NE/4, NE/4 SW/4 NW/4 and NW/4 SE/4 NW/4, Sec. 7, T. 24 S., R. 17 E.

DESCRIPTION

This claim is located in a narrow valley draining SE. The soil in the valley is a brown sandy loam, deep and fertile, while a part on the claim on the south side is steep and rocky and unfit for farming. About 10 acres can be farmed, although none of the area is now being cultivated.

There is no water, mineral, or commercial timber on the claim.

CONFLICTS AND ADJOINING CLAIMS

There are no conflicts. This claim is joined on the East by claimant's tract, described by legal subdivision.

Duquesne, Arizona, the nearest post office and trading place is 1-1/2 miles West, and is reached by a fairly good wagon road.

Nogales, Arizona, the nearest railway station, is about 20 miles to the West and is reached by a good wagon



Chains

road.

TRAVERSE

Cor.	Course	Dist.	N	S	E	W
1-2	S. 0° 04' E.	20.11		20.11	.02	
2-3	West	9.90				9.90
3-4	North	20.11	20.11			
4-1	N. 89° 57' E.	9.88	.01		9.88	
		60.00	20.12	20.11	9.90	9.90
Error in Lat. and Dep.			20.11		9.90	
			.01		.00	

Closing error 1:6000

Survey completed May 14, 1917.

  
 Surveyor - Forest Service

This claim is located in a narrow valley containing...  
 The soil in the valley is a brown sandy loam, deep and...  
 fertile, while a part on the claim on the south side...  
 is steep and rocky and unfit for farming. About 10...  
 acres can be irrigated, although none of the area is now...  
 being cultivated.  
 There is no water, mineral, or commercial timber on...  
 the claim.

There are no conflicts. This claim is joined on the...  
 east by claimant's tract, described by legal subdivi-...  
 sion.  
 Puerco, Arizona, the nearest post office and trading...  
 place is 1-1/2 miles east, and is reached by a trail...  
 good wagon road.  
 Nogales, Arizona, the nearest railway station, is about...  
 20 miles to the west and is reached by a good wagon...



- 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. 522, STATE OF ARIZONA

8-2349

CORNERS.	BEARING.	DISTANCE.	LATITUDES.		DEPARTURES.		DOUBLE M. D.	N. AREAS.	S. AREAS.
			NORTH.	SOUTH.	EAST.	WEST.			
1-2	S. 0°04' E.	20.11		20 11 <sup>2</sup>		02 <sup>✓</sup>	19 78 <sup>✓</sup>		397 97 <sup>✓</sup>
2-3	West	9.90				9 90 <sup>✓</sup>	9 90 <sup>✓</sup>		
3-4	North	20.11	20 11 <sup>✓</sup>						
4-1	N. 89°57' E.	9.88	01 <sup>✓</sup>		9 88		9 88	10 <sup>✓</sup>	
		60.00	20 12	20 11 <sup>✓</sup>	9 90 <sup>✓</sup>	9 90 <sup>✓</sup>		10	397 97 <sup>✓</sup>
	Closing error	1:6000	20 12	20 12	9 90	9 90			10
									20 397 87
									19 89 <sup>✓</sup> Acres

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APPROVAL

Office of the United States Surveyor General,

Phoenix, Arizona, March 11 , 1920.

The foregoing field notes of Homestead Entry Survey No.

522

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.



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.