U. S. DEPARTMENT OF AGRICULTURE
FOREST SERVICE

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 Daquesne, Arizona
Application No. 301, dated January 19, 1914
List No. 3-3118, dated March 30, 1914

Applicant for survey Harold Glen Lehan,
Residence Daquesne, Arizona
H. E. No. 025629, dated August 22, 1914
Office Phoenix, Arizona
Land described

Survey executed by C. A. Long, Surveyor - Forest Service
Under special instructions dated March 28, 1917
Survey commenced May 13, 1917
Survey completed May 14, 1917

OATH OF ASSISTANTS

We hereby certify that we assisted
C. A. Long
in surveying all those 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 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.

Subscribed and sworn to before me this 14th day of May 1917.

Chairman

OATH OF SURVEYOR

I, C. A. Long, Surveyor—Forest Service, do solemnly swear that, in strict conformity with the special instructions 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 No. 3-2118, dated March 30, 1914, for the same to be known as Homestead Entry Survey No. 522, situated within the unsurveyed Section 12, Township 24 S., Range 16 E., and 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.

Subscribed and sworn to before me this ninth day of November 1919.

NOTARY PUBLIC

By Commission expires March 17, 1921.
Survey commenced May 13, 1917 and executed with a Buff and Buff transit No. 10630, 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 ch. 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.
HOMESTEAD ENTRY SURVEY NO. 522
CORONADO NATIONAL FOREST
STATE OF ARIZONA.

Chains
Greenwich m.t. U.C. Pol., May 13, 1917, 10h. 07'1m. a.m.
Longitude correction, 1.2m

Final correction, 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 obse., May 12, 1917, 30h. 41'0m.

Hour angle
8h. 35'1m.

Azimuth of Pol. at obse.
1° 01' 40" W.

Azimuth of Reference Mark
N. 40° 50' 10" W.

At the same point at 6h. 43m. 28s. p.m., 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 obse., May 12, 1917, 30h. 43'5m.

Hour angle
8h. 37'6m.

Azimuth of Pol. at obse.
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

RETRACMENTS

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 6 ins. above ground, firmly set, marked and witness as described by the Surveyor General.

Thence South

Retracing line bet. secs. 7 and 12, N/2.

40.22 Fall 4-1/2 lns. 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 witness 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, 5, 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 H.E.S. 522 on SW.
face; and raise a mound of stone 2 ft. base, 2 ft.
high within the claim, whence:

A black oak 14 ins. dia. bears S. 50° 00' E., 216
lks. dist.

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

Each blazed and scribed 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.
Bottom of steep descent, thence over bottom land, descending.

12.00 Arroyo, 40 lks. wide, 5 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 esc. 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 + 32 in. in the ground over which set an iron post 2 in. in dia., 35 ins. long with brass cap, marked 1917 on S., 2 H E S 582 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., thence:

A white oak 12 ins. dia. bears S. 20° 15' W., 27 lks. dist.

A white oak 10 ins. dia., bears S. 60° 00' W., 33 lks. dist.

Each blazed and scribed C C 2 H E S + 582 B T.

No suitable witness trees within the claim.

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

Cor. H-1 of the list survey which is a granite stone 12 x 12 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 NW. slope through dense oak brush and along S. side of wire fence 26 lks. dist.
**HOMESTEAD ENTRY SURVEY NO. 522**

**CORONADO NATIONAL FOREST**

**STATE OF ARIZONA**

<table>
<thead>
<tr>
<th>Chains</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.00</td>
<td>Draw, course N. 15° 00' E.</td>
</tr>
<tr>
<td>7.00</td>
<td>Top of steep ascent, bears NW. and SE.; brush becomes scattering. Thence over mesa land.</td>
</tr>
<tr>
<td>8.50</td>
<td>Old road, bears NW. and SE.</td>
</tr>
<tr>
<td>9.70</td>
<td>Corner of wire fence, bears North 10 lks. dist., from which fence bears East and North.</td>
</tr>
<tr>
<td>9.90</td>
<td>To cor. No. 3.</td>
</tr>
</tbody>
</table>

Deposit a porphyry stone 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 South and S H E S 522 in NE. quadrant, and raise a mound of stone 4 ft. base, 3 ft. high 3-1/2 ft. dist. NW. 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. 67° 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 6 x 6 x 16 ins. above ground, marked and witnessed as described by the Forest Service, bears N. 60° 00' E., 16 lks. dist. I destroy all trace of this list cor.

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Thence North

Ascend 6 ft. over mesa, through scattering oak brush along W. side of wire fence, 10 lks. dist.

<table>
<thead>
<tr>
<th>Chains</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.50</td>
<td>Old road, bears NW. and SE.</td>
</tr>
<tr>
<td>2.10</td>
<td>Top of ridge, bears NW. and SE.</td>
</tr>
<tr>
<td>3.75</td>
<td>Foot of steep descent. Thence over bottom land, descend-</td>
</tr>
</tbody>
</table>

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HOMESTEAD ENTRY SURVEY NO. 522
CORONADO NATIONAL FOREST
STATE OF ARIZONA.

Chains 8.50
Arroyo, 20 lbs. wide, 6 ft. deep, course S. 80° 00' E.

12.00
Arroyo, 60 lbs. 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 2 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 lbs. dist.

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

Each blazed and scribed 4 H E S 522 + 2 T.
Cor. H-3 of the list survey, which is a granite
stone 12 x 6 x 6 ins. marked and witnessed
as described by the Forest Service, bears
S. 70° 00' E., 25 lbs. dist. I destroy all
trace of this list cor.

Thence 8. 89° 57' E. along cor. line.
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.
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 0.02
2-3 West North 9.90 North 9.90
3-4 North 20.11 20.11
4-1 N, 89° 57' E, 9.88 9.88
60.00 20.12 20.11 9.90 9.90
20.11 9.90
.01
.00

Error in Lat. and Dep.
Survey completed May 14, 1917.

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 correct 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.
3. The corrections for balancing fillings should be proportional to the lengths of the lines.
4. In calculations of fillings 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.

Table and Calculations of Homestead Entry Survey No. 522, State of Arizona

<table>
<thead>
<tr>
<th>CORNERS</th>
<th>BEARING</th>
<th>DISTANCE</th>
<th>LATITUDES</th>
<th>DEPARTURES</th>
<th>DOUBLE M. D.</th>
<th>N. AREAS</th>
<th>S. AREAS</th>
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<tbody>
<tr>
<td></td>
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<td></td>
<td>NORTH</td>
<td>SOUTH</td>
<td>EAST</td>
<td>WEST</td>
<td></td>
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<tr>
<td>1-2</td>
<td>S. 0°04' E.</td>
<td>20.11</td>
<td>20</td>
<td>11</td>
<td>02</td>
<td>19.78</td>
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<tr>
<td>2-3</td>
<td>West</td>
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<td></td>
<td>9.90</td>
<td>9.90</td>
<td></td>
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<tr>
<td>3-4</td>
<td>North</td>
<td>20.11</td>
<td>20</td>
<td>11</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4-1</td>
<td>N. 89°57' E.</td>
<td>9.88</td>
<td>01</td>
<td>9.88</td>
<td>9.88</td>
<td>10</td>
<td>327.97</td>
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<tr>
<td>Closing error</td>
<td>1.6000</td>
<td>20.12</td>
<td>20.12</td>
<td>7.76</td>
<td>7.76</td>
<td>10</td>
<td>327.97</td>
</tr>
</tbody>
</table>

20 1397-87
19.89 Acres
APPROVAL

Office of the United States Surveyor General,


The foregoing field notes of Homestead Entry Survey No.

522

executed by C. A. Long, Surveyor,

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.

[Signature]
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.