U. S. DEPARTMENT OF AGRICULTURE
FOREST SERVICE

FIELD NOTES

OF

HOMESTRADD ENTRY SURVEY No. 531

SITUATED IN THE

CORONADO NATIONAL FOREST

ADMINISTRATIVE DISTRICT NO. 3

In Section 17, unsurveyed, Township 243, Range 19 E.
In Section 20, unsurveyed, Township 245, Range 19 E.

of the

Gila and Salt River Base and Meridian.

State of

ARIZONA

Applicant for listing

Jesus Leon

Residence

Nogales, Arizona.

Application No. 275, dated March 21, 1913.

List No. 3 - 3099, dated March 17, 1914.

Applicant for survey

Martha Bigalow

Residence

Patagonia, Arizona.

H. E. No. 040369, dated August 21, 1918.

Survey executed by

C. A. Long

Surveyor - Forest Service

[Forest Service Seal]

Under special instructions dated March 26, 1917.

Survey commenced May 14, 1917.

Survey completed May 16, 1917.

OATH OF ASSISTANTS

We hereby certify that we assisted C. A. Long, Surveyor - Forest Service, in surveying all those parts or portions of Homestead Entry Survey No. 531, 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.

[Signatures]

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

[Signature]

Surveyor - Forest Service.

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 20, 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. 3–3099, dated March 17, 1914, for Patent, under the Act of June 11, 1906, the same to be known as Homestead Entry Survey No. 531, situated within the Coronado National Forest, in

unsurveyed Section 17 Township 24 S. Range 19 E., and
unsurveyed Section 20 Township 24 S. Range 19 E.,

of the Gila and Salt River Base & meridian, Arizona, and the related retracemenes 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]

Subscribed and sworn to before me this tenth day of January, 1919.

[Signature]

Notary Public

By commission expires March 17, 1921.
Chains
Applicant for listing, Jesus Leon; Application No. 275, dated March 21, 1912; List No. 2-3099, dated March 17, 1914; R. E. 040662, made in the Phoenix Land Office on August 21, 1918, by Martha Bigelow.
Surveyed under special instructions from the Surveyor General for Arizona, dated March 28, 1917, and designated as Homestead Entry Survey No. 631.
Situated in what will probably be, when surveyed, Secs. 17 and 20, T. 24 S., R. 19 E., Gila and Salt River base and meridian, Coronado National Forest, Arizona.

Survey commenced May 14, 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 14, 1917.

At International Boundary Monument No. 106, which is a concrete obelisk 6 x 6 x 10 ft., marked United States on N. and Mexico on South, at 5 h. 48 m. 29.1 m. l.m.t. I observe Polaris with telescope direct, reading an angle of 90° 42' from star to right to International Boundary monument No. 105, which is 322.40 chains distant.
Latitude 31° 20' 25.3 N. Longitude 110° 27' 28" W. from U. S. G. S. sheet of Hereford quadrangle.

Greenwich m.t. U.C. Polaris May 14, 1917, 10h. 08.2m. a.m.

Longiude correction
L.m.t. U.C. Pol. May 14, 1917 10h. 02.0m.
+ 12h. 00.0m.

Astron. L.m.t. U. C. Pol. May 13, 1917 22h. 02.0m.
Astron. l.m.t. of obsv. May 13, 1917 30h. 48.0m.
Hour angle 4h. 46.0m.
Chains
Azimuth of Polaris at obse. 0° 59' 06" W.
Bearing of reference mark N 89° 42' 64" E.
At the same point at ch. 56m. P.M. I again observe Polaris with telescope reversed, reading an angle of 90° 41' 30" from star to right to the same reference mark.
Astron. l.m.t. U. & C. Pol. May 13, 1917. 22h. 02.00m.
Astron. l.m.t. of obs. May 13, 1917. 60h. 50.00m.
Hour angle 8h. 46.00m.
Azimuth of Pol. at obse. 0° 59' 32"
Bearing of reference mark N 89° 42' 51" E.
The bearing of the line between boundary monuments Nos. 106 and 105 as determined from the mean of the two observations is N. 89° 42' 53" E and from the corresponding meridian all the courses of this survey were deflected.

May 15, 1917.
Retracement of International Boundary.
Beginning at International Boundary Post No. 106, here-tofore described.
Thence N. 89° 43' E.
On a random line for distance only.
322.40 Intersect International Boundary monument No. 105, which is an iron post 1 1/2 x 1 1/2 x 7 ft., firmly set on a concrete pedestal and marked United States on N. and Mexico on S.
Return course S. 89° 43' W. 322.40 ch.

May 15, 1917.
BOUNDARIES OF CLAIM
Beginning at Cor. No. 1
Deposit a porphyry stone 2 x 4 x 6 ins. marked with a +
10 ins. in the ground, over which set a porphyry
stone 6 x 12 x 16 ins.; no larger stone available,
chiseled + for the point and 1 88 S 331 on NE. face;
No bearing trees or objects available; therefore dig
pits 18 x 18 x 12 ins. N. 0° 09' W. and N. 89° 43' E.,
3 1/2 ft. dist.; and raise a mound of earth 3 ft. base,
2 ft. high NE. of cor., 3 1/2 ft. dist.

Cor. No. 1 of List 3-3099, which is also Cor. H-2
of List 3-2786, which is a porphyry stone 4 x 6
x 14 ins. above ground, marked and witnessed as
described by the Forest Service, bears North 10
Lks. dist. I destroy the marks that refer to
this claim.

International Boundary Monument No. 106, heretofore
described, bears S. 89° 01' 58" W., 75.28 chs.
dist. by traverse which appears at end of these
notes.

The observed mag. decl. at 6 a.m. is 13° 00' E., which
corrected for diurnal change gives a mean mag. decl.
of 13° 07' E.

Latitude 21° 20' N. Longitude 110° 26' 32" W., derived
from U. S. G. S. sheet of Hereford quadrangle.

Chence N. 0° 09' W.

Along line common to List 3-2099 and List No. 3-2786.
Ascend 25 ft. to cor. over open rolling mesa.

5.10 Road bears NW. and SE.

25.00 Draw, course S. 20° 00' W.

40.02 To Cor. No. 2.

Identical with Cor. H-4 of List 3-3099 and H-2 of List
No. 3-2786 and Cor. H-4 of List No. 3-3375, which is
a porphyry stone 5 x 6 x 13 ins. above ground, marked
and witnessed as described by the Forest Service. I
destroy all traces of the list cor. which refer to the
claim, and at same point deposit a sandstone 5 x 5 x 6
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. rim; and 2 H E S 501 in SE. quad-
rant. No bearing trees or objects available, therefore
dig pits 18 x 18 x 12 ins. S. 0° 09' E. and N. 89° 43'
Chains  E., 3 1/2 ft. dist., and raise a mound of earth 3 ft. base, 2 ft. high, 3 1/2 ft. dist. SE. of cor.

May 16, 1917.

Thence N. 89° 43' E.

Descend 25 ft. over open mesa land, along line common to the claim and List No. 3-2375.

12.00  Draw, course S. 20° 00' W.

15.40  Road bears NE. and SW.

21.00  Wire fence bears N. and S. Cor. of fence is 5 lks. N., thence along S. side of fence bearing with line.

25.00  Wash in draw, 10 lks. wide. Course S. 18° 00' E. Bottom of descent. Ascend 15 ft. to Cor. Dug well bears South 100 lks.

34.00  Enter edge of plowed land.

38.00  Leave plowed land.

39.92  Wire fence bears N. and S. Cor. of fence is 10 lks. N.

39.96  To Cor. No. 2.

Identical with Cor. H-3 of List 3-3099 and Cor. H-1 of list No. 3-2375, which is a porphyry stone 2 x 7 x 14 ins. above ground, marked and witnessed as described by the Forest Service. I destroy all trace of the list cor. which refers to this claim, and in same place;

Deposit a sandstone 2 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 19'17 on S. rim; and 3 H E S 561 in SW. quadrant. No bearing trees or objects available; therefore dig pits 18 x 18 x 12 ins. S. 89° 43' W. and E. 0° 09' N. 3 1/2 ft. dist. and raise a mound of earth 3 ft. base, 2 ft. high, 3 1/2 ft. dist SW. of Cor.

Thence S. 0° 09' E.

Descend 35 ft. to cor. over open mesa land along N. side.
Chains of wire fence 5 lks. dist.

28.01 Intersect Cor. No. 2 of H.E.S. 299, which is a porphyry stone 6 x 6 x 10 ins. above ground, marked 2 H E S 299 on SE. face.

Then go along line 2 - 1 of H E S 299,

40.00 To Cor. No. 4,

Identical with Cor. No. 1 of H.E.S. 299, which is a porphyry stone 6 x 6 x 8 ins. above ground, marked 1 H E S 299 on NW. face and a + on top. I mark the same stone 4 H E S 561 on NW. face. No bearing trees or objects available; therefore dig pits 18 x 18 x 12 ins. N. 0° 09' W. and S. 89° 43' W., 3-1/2 ft. dist., and raise a mound of earth and stone 3 ft. base, 2 ft. high 3-1/2 ft. NW. of cor.

Cor. H/2 of the List Survey, which is a porphyry stone 2 x 7 x 14 ins. above ground, marked and witnessed as described by the Forest Service, bears N. 10 lks. dist. I destroy all trace of the list cor.

Note: Line 2 to 1 of H E S 299 is recorded as S. 0°12' E 12.00 chs. This line is identical with a portion of line 3 to 4 of this survey, the bearing of which is S. 0° 09' E., making a difference of 3 minutes, which is well within inspection limits.

Thence S. 89° 43' W.

Parallel to and 60 ft. N. of International Boundary.
Ascend 40 ft. to cor. over open rolling mesa-land, along S. side of wire fence 5 lks. dist.

20.20 Draw, course South.

22.00 Leave wire fence bearing North.

37.80 Road bears N. 20° 00' E. and S. 20° 00' W.

38.10 Road bears N. 15° 00' W. and S. 15° 00' E.

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

AREA Total Area.............................................159.22 Acres
HOMESTEAD ENTRY SURVEY NO. 531
CORONADO NATIONAL FOREST
STATE OF ARIZONA.

Chains

IMPROVEMENTS

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

An adobe house 12 x 16 ft.; course of long sides N. and S., the NW. cor. of which bears S. 78° 00' W. 12.80 chs. from Cor. No. 3. Value $75.00

An adobe storehouse 8 x 8 ft.; course of long sides N. and S., the NW. cor. of which bears S. 68° 55' W. 15.55 chs. from Cor. No. 3. Value $10.00

A dug well, about 60 ft. deep, no water in it, the center of which bears S. 86° 00' W., 14.95 chs. dist. from Cor. No. 3. Value $200.00

About 1-1/2 miles of barbed wire fencing. Value $200.00

DESCRIPTION

This claim is located on a broad, gently rolling mesa, known as Campini mesa. The soil is a gravelly loam, with clay subsoil, first rate. All of the area is suitable for dry farming. About 20 acres has been cultivated in the past. No mineral on claim.

There is no water or timber on this claim.

CONFLICTS AND ADJOINING CLAIMS

There are no conflicts. This claim is joined on the West by List No. 3-2786; on the north by List No. 3-2375, and on the east by H.E.S. No. 299. H.E.S. No. 298 lies approximately 1/2 mile northeasterly. Nogales, Arizona, the nearest post office, railway station and trading place, is 30 miles to the west, and is reached by a fairly good wagon road.
## Chains

### TRAVERSE

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<th>Course</th>
<th>Dist.</th>
<th>N.</th>
<th>S.</th>
<th>E.</th>
<th>W.</th>
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Closing error 1:3573

Tie from Cor. 1 to International Boundary monument No. 106

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Resultant course, S. 89° 01' 56" W.

Survey completed May 16, 1917.

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Surveyor-Forest Service
TABLED AND CALCULATIONS OF HOMESTEAD ENTRY SURVEY NO. 251, 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>
<td></td>
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<td>North</td>
<td>South</td>
<td>East</td>
<td>West</td>
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<tr>
<td>1-2</td>
<td>N, 0° 09' W.</td>
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<td>2-3</td>
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<td>3-4</td>
<td>S, 0° 09' E.</td>
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<td>4-1</td>
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Closing Error 1: 3578'

\[
\frac{10}{1599.22} \quad 159.92 \quad A
\]
APPROVAL

Office of the United States Surveyor General,
Phoenix, Arizona, April 10, 1910

The foregoing field notes of Homestead Entry Survey No.

executed by C. A. Long, Surveyor
under his special instructions, dated March 25, 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.