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ORIGINAL

U. S. DEPARTMENT OF AGRICULTURE
FOREST SERVICE

FEB-3-1914
APR-2-1920

FIELD NOTES

OF

HOMESTEAD ENTRY SURVEY NO. 531

SITUATED IN THE CORONADO NATIONAL FOREST

ADMINISTRATIVE DISTRICT NO. 3

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

Residence Patagonia, Arizona.

H. E. No. 040269 , dated August 21 , 1918

Office
Land District , Phoenix, Arizona

Survey executed by C. A. Long Surveyor - Forest Service
(Forest Service Title.)

Under special instructions dated March 28 , 19 17

Survey commenced May 14 , 19 17

Survey completed May 16 , 19 17

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. 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 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. W. Dinsmith

Chairman
H. L. Washburn

Chainman

Subscribed and sworn to before me this **Sixteenth** 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. **3-3099**, dated **March 17**, 19**14**, for
Patent, under the Act of **June 11**, 19**06**,
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 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 **tenth** day of
January, 19**19**.

Ethel G. Myers

Notary Public



8-2349

My commission expires **March 17, 1921**.

HOMESTEAD ENTRY SURVEY NO. 531

CORONADO NATIONAL FOREST

STATE OF ARIZONA

Chains

Applicant for listing, Jesus Leon; Application No. 275, dated March 21, 1913; List No. 3-3099, dated March 17, 1914; H. E. 040262 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. 531.

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.

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

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 5 x 5 x 10 ft., marked United States on N. and Mexico on South, at 6 h. 48 m. P.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' 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. 03.2m. a.m.

Longitude correction,		1.2
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 obsn.	May 13, 1917	30h. 48.0m.
Hour angle		8h. 46.0m.

Chains .01 Azimuth of Polaris at obsn. $0^{\circ} 59' 06''$ W.
 .11 10 Bearing of reference mark N. $89^{\circ} 42' 54''$ E.
 .30 90 At the same point at 6h. 50m. p.m. l.m.t., I again ob-
 .107 99 serve Polaris with telescope reversed, reading an
 .107 99 angle of $90^{\circ} 41' 30''$ from star to right to the same
 .3128 99 reference mark.

Astron. l.m.t. U. C. Pol. May 13, 1917. 22h. 02.0m.
 Astron. l.m.t. of obsn. May 13, 1917. 30h. 50.0m.
 .3093 99 Hour angle 8h. 48.0m.

.3093 13 Azimuth of Pol. at obsn. $0^{\circ} 58' 32''$
 .11 10 Bearing of reference mark N. $89^{\circ} 42' 51''$ E.
 .11 10 The bearing of the line between boundary monuments Nos.
 106 and 105 as determined from the mean of the two
 observations is N. $89^{\circ} 42' 53''$ E. and from the corre-
 sponding 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. $89^{\circ} 43'$ E.
 On a random line for distances only.

322.40 Intersect International Boundary monument No. 105, which
 is an iron post $1\frac{1}{2} \times 1\frac{1}{2} \times 7$ ft., firmly set on
 a concrete pedestal and marked United States on N.
 and Mexico on S.
 Return course S. $89^{\circ} 43'$ W. 322.40 ch.

May 15, 1917. BOUNDARIES OF CLAIM
 Beginning at Cor. No. 1
 Deposit a porphyry stone $3 \times 4 \times 5$ ins. marked with a +
 10 ins. in the ground, over which set a porphyry
 stone $6 \times 12 \times 16$ ins., no larger stone available,
 chiseled + for the point and L H E S 531 on NE. face;
 No bearing trees or objects available; therefore dig

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STATE OF ARIZONA.

Chains

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' 36" W., 75.25 chs.
dist. by traverse which appears at end of these
notes.

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

Latitude 31° 20' N. Longitude 110° 26' 32" W., derived
from U. S. G. S. sheet of Hereford quadrangle.

Thence N. 0° 09' W.

Along line common to List 3-3099 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-3 of List
No. 3-2786 and Cor. H-4 of List No. 3-3375, which is
a porphyry stone 5 x 6 x 16 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 531 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 15, 1917.

May 16, 1917.

Thence N. 89° 43' E.

Descend 25 ft. over open mesa land, along line common to the claim and List No. 3-3375.

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. 15° 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. 3.

Identical with Cor. H-3 of List 3-3099 and Cor. H-1 of list No. 3-3375, 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 1917 on S. rim; and 3 H E S 531 in SW. quadrant. No bearing trees or objects available; therefore dig pits 18 x 18 x 12 ins. S. 89° 43' W. and S. 0° 09' E. 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 E. side

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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 8 x 10 ins. above ground, marked 2 H E S 299 on SE. face.

Thence 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 NE. face and a + on top. I mark the same stone 4 H E S 531 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.

23.00 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

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. 13.35 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. 3-3375, 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.

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STATE OF ARIZONA

Chains

TRAVERSE

Course	Dist.	N.	S.	E.	W.
N. 0° 09' W.	40.02	40.02			.10
N. 89° 43' E.	39.96	.20		39.96	
S. 0° 09' E.	40.00		40.00	.10	
S. 89° 43' W.	40.00		.20		40.00
	<u>159.98</u>	40.22	40.20	40.06	40.10
Error in Lat. and Dep.		<u>40.20</u>			<u>40.06</u>
		.02			.04

Closing error 1:3578

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

S. 0° 09' E.	0.91		.91		
S. 89° 43' W.	75.24		.37		75.24
	<u>76.25</u>		1.28		<u>75.24</u>

Resultant course, S. 89° 01' 36" W.

Survey completed May 16, 1917.

Anthony
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. 351, STATE OF ARIZONA

5-2349

CORNERS.	BEARING.	DISTANCE.	LATITUDES.		DEPARTURES.		DOUBLE M. D.	N. AREAS.	S. AREAS.	
			NORTH.	SOUTH.	EAST.	WEST.				
1-2	N. 0° 09' W.	40.02	40 02			10	10	4 00		
2-3	N. 89° 45' E.	39.96	20		39 96		39 98	8 00		
3-4	S. 0° 09' E.	40.00		40 00	10		80 06		3202 40	
4-1	S. 89° 43' W.	40.00		20		39 98	40 18		8 04	
		159.98	40 22	40 20	40 06	40 10		12 00	3210 44	
			40 70	40 70	40 08	40 08			12 00	
		Closing error	1: 3578						2/3198 44	
								10/	1599 22	159.92 A.

APPROVAL


Office of the United States Surveyor General,

Phoenix, Arizona, April 10, 1910

The foregoing field notes of Homestead Entry Survey No.

531

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.