

U. S. DEPARTMENT OF AGRICULTURE
FOREST SERVICE

JUN 20 1917
NOV 1 1915

FIELD NOTES

OF

HOMESTEAD ENTRY SURVEY NO. 311

SITUATED IN THE **CORONADO** NATIONAL FOREST

ADMINISTRATIVE DISTRICT NO. 3

In Section 17, unsurveyed, Township 24 S., Range 21 E.
In Section 18, unsurveyed, Township 24 S., Range 21 E.

of the

Gila and Salt River Base and Meridian.

State of

Arizona

Applicant for listing **Wm. M. Ratliff,**

Residence **Hereford, Arizona**

Application No. **193**, dated **October 22**, 19**11**

List No. 3-1928, dated **July 13**, 19**12**

Supp'l. List No. 3-1928, dated **November 13**, 19**14**

Applicant for survey **Wm. M. Ratliff,**

Residence **Hereford, Arizona**

H. E. No. **022290**, dated **April 30**, 19**13**

Land District **Phoenix, Arizona**

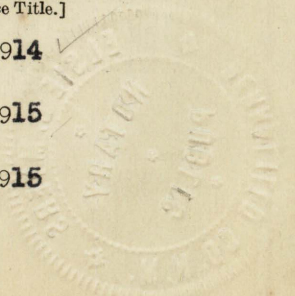
Survey executed by **R. P. A. Johnson,** Surveyor - Draftsman
[Forest Service Title.]

Under special instructions dated **October 19**, 19**14**

Survey commenced **March 12**, 19**15**

Survey completed **March 13**, 19**15**

Under Acts of **June 11, 1906** and **June 30, 1914.**



OATH OF ASSISTANTS

We hereby certify that we assisted **R. P. A. Johnson,**
Surveyor - Draftsman in surveying all those
[Forest Service Title.]

parts or portions of Homestead Entry Survey No. **311**, 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.

H. J. Soberty, Chairman
W. E. Baechle, Chairman

Subscribed and sworn to before me this *twenty six* day of
March, 19*15*.

R. P. A. Johnson
Surveyor - Draftsman

OATH OF SURVEYOR

I, **R. P. A. Johnson,** **Surveyor - Draftsman**
[Forest Service Title.]

do solemnly swear that, in strict conformity with the special instruc-
tions of the United States Surveyor General for **Arizona**, dated
October 19, 19**14**, 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**

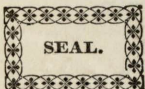
List, No. **3-1928**, dated **July 13**, 19**12**, and
Supp'l. List, No. **3-1928**, dated **November 13**, 19**14**, for
Patent, under the Act of **June 11**, 19**06**,
the same to be known as Homestead Entry Survey No. **311**,
situated within the **CORONADO** National Forest, in
unsurveyed Section 17, Township **24 S.**, Range **21 E.**, and
unsurveyed Section - 18 -, Township **24 S.**, Range **21 E.**

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.

R. P. A. Johnson
Surveyor - Draftsman
[Forest Service Title.]

Subscribed and sworn to before me this *twenty eight* day of
September, 19*15*.

Elsie E. Myers
Notary Public



CORONADO NATIONAL FOREST

STATE OF ARIZONA.

Chains Applicant for listing Wm. M. Ratliff; Application No. 193 dated October 22, 1911; List No. 3-1928, dated July 13, 1912 and supplemental List No. 3-1928, dated November 13, 1914; H. E. 022290 made in the Phoenix Land Office on April 30, 1913 by Wm. M. Ratliff.

Surveyed under special instructions from the Surveyor General for Arizona, dated October 19, 1914 and designated as Homestead Entry Survey No. 311.

Situated in T. 24 S., R. 21 E., in what will probably be, when surveyed, Secs. 17 and 18, Gila and Salt River Base and Meridian, Coronado National Forest, Arizona.

Surveyed under the Acts of June 11, 1906 and June 30, 1914.

Survey commenced March 12, 1915, and executed with a Buff and Buff transit.

I test the adjustments of the transit and make necessary corrections.

All measurements were made directly on the slope with a 500 link steel tape. The slope angles were determined with a clinometer.

The courses of this survey were deflected from the meridian established by me on March 11 and 12, 1915 by direct solar observation at cor. No. 4 of H. E. S. 310, which is also cor. No. 1 of this survey.

March 12, 1915.

Beginning at cor. No. 1.

Identical with cor. H-4 of the list survey, which is a granite stone 6 x 3 x 6 ins. above ground, marked and witnessed as described by the Forest Service. I destroy all trace of list cor. At this point I previous-

Chains ly set cor. No. 4. H. E. S. 310, which is a quartzite stone, 16 x 8 x 10 ins. above ground, marked 4 H E S 310 on NW. face with a mound of stone 3 ft. base, 2 ft. high NW. of cor. I mark 1 - H E S 311 on NE. face of same stone for cor. No. 1 of this survey, whence:

A black oak 8 ins. dia., bears N. 64° 21' E., 240 lks. dist., scribed 1 H E S 311 B T.

A white oak, 9 ins. dia., bears N. 12° 01' E., 277 lks. dist., scribed 1 H E S 311 B T.

International Boundary Post No. 100, which is an iron post six feet high, marked 100 on West face, bears S. 68° 34' 33" W., 96.73 chs. dist. by traverse which appears at the end of these notes.

Lat. 31° 20' 18" N., Long. 110° 14' 30" W., Hereford Quad.
Mag. Va. at 3 p.m., 14° 32' E., Mean Mag. Va. 14° 34' E.

Thence N. 00° 08' W.

Along line 4-3 of H. E. S. 310. Descend 50 ft. to Montezuma Wash.

3.56 Montezuma Wash, 446 lks. wide, banks 2 ft. high, course SE. Ascend 25 ft.

- 8.78 Fence, bears N. 54° W. and S. 54° E.

9.07 Enter cultivated land, bears NW. and SE.

12.85 Leave cultivated land, bears NW. and SE.

13.55 Fence, bears S. 54° E. and N. 54° W.

13.60 Road, bears S. 54° E. and N. 54° W.

19.30 Arroyo, 8 lks. wide, banks 2 ft. high, course S. 57° E.

24.66 Arroyo, 10 lks. wide, banks 2 ft. high, course SE.

Ascend 55 ft. to ridge.

30.66 Ridge. Descend 10 ft. to arroyo. Ridge bears NW. and SE.

32.06 Arroyo, 10 lks. wide, banks 2 ft. high, course S. 70° E.

Ascend 25 ft. to ridge.

CORONADO NATIONAL FOREST

STATE OF ARIZONA

Chains	Identical with cor. H-3 of the list survey, which is a
34.06	Enter timber, bears E. and W.
34.66	Ridge, descend 15 ft. to wash. Ridge bears NW. and SE.
38.60	Wash, 20 lks. wide, banks 3 ft. high, course S. 26° E. Ascend 15 ft. to cor.
39.36	Fence, bears S. 35° E. and N. 35° W.
39.66	To cor. No. 2. Identical with cor. H-3 of the list survey, which is a quartzite stone 6 x 4 x 6 ins. above ground, marked and witnessed as described by the Forest Service. I de- stroy all trace of this cor. At this point I previous- ly set cor. No. 3, H. E. S. 310, which is a diorite stone 8 x 8 x 10 ins. above ground, marked 3 - H E S 310 on SW. face, with mound of stone 3 ft. base, 2 ft. high SW. of cor. I mark same stone 2 - H E S 311 on SE. face for cor. No. 2 of this survey, from which: A black oak, 14 ins. dia., bears S. 36° 27' E., 116 lks. dist., scribed 2 H E S 311 B T. A black oak, 14 ins. dia., bears N. 76° 20' E., 102 lks. dist., scribed 2 H E S 311 B T.
	Thence N. 89° 39' E. Descend 10 ft. to arroyo.
0.50	Arroyo, 5 lks. wide, banks 1 ft. high, course S. 20° E. Ascend 10 ft. to top of ridge.
5.00	Top ridge. Descend 25 ft. to arroyo. Ridge bears NW. & SE.
8.10	Cor. fences. Fence bears S. 55° W. and S. 42° E.
19.60	Arroyo, 10 lks. wide, bank 1 ft. high, course S. 35° E. Ascend 10 ft. to ridge.
25.00	Ridge. Descend 10 ft. to arroyo. Ridge bears NW. and SE.
32.30	Arroyo, 10 lks. wide, bank 1 ft. high, course S. 60° E. Descend 25 ft. to cor.
39.70	To cor. No. 3.

Chains

Identical with cor. H-2 of the list survey, which is a quartzite stone 6 x 3 x 6 ins. above ground, marked and witnessed as described by Forest Service. This stone is also marked for cor. H-4 of serial 024569. I destroy all trace of this list cor. which refers to this claim, and at this point I set a quartzite stone 24 x 12 x 6 ins., 14 ins. in the ground, over a small stone marked with a cross (+) chiseled 3 - H E S 311 on SW. face; and raise a mound of stone 3 ft. base, 2 ft. high SW. of cor., from which:

A black oak, 6 ins. dia., bears S. 27° 50' E.,
79 lks. dist., scribed 3 H E S 311 B T.

A black oak, 4 ins. dia., bears S. 27° 35' W.,
1.50 lks. dist., scribed 3 H E S 311 B T.

Thence S. 00° 23' E.

Along line H-4 to H-1 of serial No. 024569. Descend 10 ft. to arroyo.

- 5.10 Arroyo, 12 lks. wide, banks 1 ft. high, course SE.
- 6.00 Arroyo, 14 lks. wide, banks 1 ft. high, course SE.
- 7.00 Leave timber, bears ESE. and NNW.
- 9.45 Road, bears NW. and SE.
- 14.00 Fence cor. Fence bears S. 68° E. and N. 2° W.
- 14.10 Enter cultivated land, bears NW. and SE.
- 26.30 Leave cultivated land, bears E. and W.
- 27.50 Fence, bears NE. and SW.
- 30.65 Road, bears NE. and SW.
- 39.87 To cor. No. 4.

Identical with cor. H-1 of the list survey, which is a granite stone 16 x 6 x 6 ins. above ground, marked and witnessed as described by the Forest Service. This is also cor. H-1 of H. E. 024569. I destroy all trace of this cor. which refers to this claim and at this point

CORONADO NATIONAL FOREST

STATE OF ARIZONA

Chains I set a diorite stone 24 x 8 x 5 ins., 14 ins. in the ground, over a small stone marked with a cross, chiseled 4 - H E S 311 on NW. face. No bearings available, therefore dig pits 24 x 24 x 12 ins. crosswise on this and the succeeding line 3-1/2 ft. dist.; and raise a mound of earth and rock 4 ft. base, 2 ft. high, 7 ft. dist. NW. of cor.-----

March 12, 1915.

March 13, 1915.-----

Thence S. 89° 58' W. Descend 10 ft. to arroyo.

7.57 Cor. H-1 of List 3-3562 of Elmer L. Hertel, which is a quartzite stone 12 x 12 x 6 ins. above ground, chiseled H-1 on SE. face, with mound of stone around cor.

13.84 Arroyo, 18 lks. wide, banks 2 ft. high, course SSE. Descend 10 ft. to wash.

26.78 Left bank Montezuma wash, 2 ft. high, course SE.

32.74 Right bank Montezuma wash, 2 ft. high, course SE. Ascend 50 ft. to cor.

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

AREA

Total area - - - - - 158.23 acres

IMPROVEMENTS

The improvements made upon and for the benefit of this homestead and belonging to the applicant consist of the following:

A frame dwelling 40 x 24 ft., the long side of which bears NE. and SW. and the SW. cor. of which bears S. 35° 06' E., 9.20 chs. dist. from cor. No. 2.

Value ----- \$600.00

Chains A frame shop, 30 x 15 ft., the long side of which bears
NW. and SE. and NE. cor. of which bears S. 45° 48' E.,
8.75 chs. dist. from cor. No. 2.

Value ----- \$300.00

A well and windmill, well 36 ft. deep, bears S. 45° E.,
6.65 chs. dist. from cor. No. 2.

Value ----- \$200.00

A well and gas pump, well 36 ft. deep, bears S. 80° E.,
11.40 chs. dist. from cor. No. 2.

Value ----- \$200.00

A root cellar, 12 x 12 ft., the NE. cor. of which bears
S. 31° 45' E., 8.80 chs. dist. from cor. No. 2.

Value ----- \$200.00

There is approximately 2-1/4 miles wire fence.

Value ----- \$275.00

DESCRIPTION.

This claim is situated on Montezuma wash at southeast
end of Huachuca Mountain, about 1/2 mile North of the
International line. The general slope is to the
Southeast.

There is no merchantable timber on this tract, but the

Northern portion is covered with oak timber whose only
value is for post and fire wood.

The tract consists of bottom land and a large flat cut

by arroyos and with gradual SE. slope. The bottom

land is sandy loam and produces crops. The flat is

level with sandy loam and will probably produce crops
with irrigation.

Water for both irrigation and domestic use is ob-

tained from a 36 ft. well by use of windmill and

gas pump.

There is approximately 30 acres under cultivation.

CORONADO NATIONAL FOREST

STATE OF ARIZONA

Chains

I saw no indication of mineral upon this claim.
Hereford, the nearest post office and railroad point,
is 15 miles NE. and is reached by a good wagon road.

CONFLICTING AND ADJOINING CLAIMS

There are no known conflicting claims.
The claim is joined on West by H. E. S. No. 310 of Ed
Ratliff son of applicant; on East by H. E. No. 024569
of Cornelius N. Driscoll, and on South by List 3-3562
of Elmer L. Hertel.

TRAVERSE

Cor.	Course	Dist.	N	S	E	W
1-2	N. 0° 08' W.	39.66	39.66			0.09
2-3	N. 89° 39' E.	39.70	0.24		39.70	
3-4	S. 0° 23' E.	39.87		39.87	0.27	
4-1	S. 89° 58' W.	39.88		0.02		39.88
			159.11	39.90	39.89	39.97
				39.89		39.97
Error in Lat. and Dep.			0.01		0.00	
Closing error 1:15911.						

TIE

Cor. No. 1 to International Boundary Monument No. 100

Course	Dist.	N	S	E	W	
S. 0° 08' E.	5.00		5.00	0.01		
S. 25° 22' W.	46.16		41.71		19.78	
N. 84° 22' W.	61.94	6.08			61.64	
N. 58° 28' W.	10.13	5.30			8.63	
		123.23	11.38	46.71	0.01	90.05
				11.38		0.01
				35.33		90.04

Therefore International Monument No. 100 bears S.
68° 34' 33" W., 96.73 chs. dist. from cor. No. 1.

Survey completed March 13, 1915.

R. P. A. Johnson
Surveyor - Draftsman.

NATIONAL FOREST

STATE OF ARIZONA

Chains I saw no indication of mineral upon this claim. Hereford, the nearest post office and railroad point, is 18 miles NE. and is reached by a good wagon road.

COMPETING AND ADJOINING CLAIMS

There are no known conflicting claims. The claim is joined on West by H. E. S. No. 310 of Ed Ratliff son of applicant; on East by H. M. No. 024589 of Cornelius M. Driscoll, and on South by Dist 3-3563 of Elmer L. Hertel.

TRAVEL

Cor.	Course	Dist.	N	S	E	W
1-2	N. 0° 08' W.	39.88	39.88			0.00
2-3	N. 89° 39' E.	39.70	0.34	39.70	39.70	
3-4	S. 0° 23' E.	39.87		39.87	0.27	
4-1	S. 89° 38' W.	39.88		0.02		39.88
			139.11	39.90	39.89	39.97
			39.89		39.97	
Error in lat. and dep.			0.01		0.00	
Closing error 1:15011.						

TIP

Cor. No. 1 to International Boundary Monument No. 100

Cor.	Course	Dist.	N	S	E	W
2.	0° 08' E.	5.00		5.00	0.01	
2.	88° 22' W.	40.16	41.71			19.78
1.	84° 22' W.	61.94	6.08			61.64
1.	88° 38' W.	10.13	6.30			8.63
			113.23	11.38	48.71	90.03
			11.38		0.01	0.01
			35.33			30.04

Therefore International Monument No. 100 bears S. 88° 34' 33" W., 96.78 and dist. from cor. No. 1. Survey completed March 15, 1915.

[Signature]
Surveyor - Draftsman.

DIRECTIONS.—1. Carry out calculations to two decimals only.
2. In balancing Latitudes and Departures do not obliterate or change the original figures, but put below them the corrected footing in red ink.
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.
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.

TABLE AND CALCULATIONS OF HOMESTEAD ENTRY SURVEY NO. 311, STATE OF Arizona.

CORNERS.	BEARING.	DISTANCE.	LATITUDES.		DEPARTURES.		DOUBLE M. D.		N. AREAS.	S. AREAS.
			NORTH.	SOUTH.	EAST.	WEST.				
1-2	N. 0° 08' W.	39.66	39 66			0 09	0 09	0 09	3 57	
2-3	N. 89° 39' E.	39.70	0 24		39 70	39 70	39 70	39 70	9 53	
3-4	S. 0° 23' E.	39.87		39 87	0 27		79 67	79 67		3176 44
4-1	S. 89° 58' W.	39.88		0 02		39 88	40 06	40 06		1 20
		159.11	39 90	39 89	39 97	39 97			13 10	3177 64
			39 90	39 90	39 97	39 97				13 10
										20)3164 54
										158 227 Acres
Closing error 1:15911										

ERRA

APPROVAL

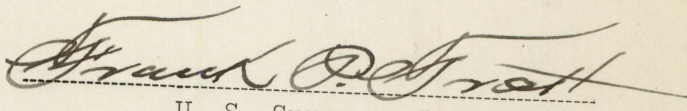
Office of the United States Surveyor General,

Phoenix, Arizona, August 8, 1917

The foregoing field notes of Homestead Entry Survey No.

311

executed by R. P. A. Johnson, Surveyor-Draftsman [Forest Service Title.]
under his special instructions, dated October 19, 1914, 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.