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ORIGINAL

Oct. 18-20  
121  
27.1920

U. S. DEPARTMENT OF AGRICULTURE  
FOREST SERVICE

**FIELD NOTES**

OF

HOMESTEAD ENTRY SURVEY NO. 614

SITUATED IN THE **CORONADO** NATIONAL FOREST

ADMINISTRATIVE DISTRICT NO. 5

In Section 18 , un surveyed, Township 23 S. , Range 18 E.

of the

**Gila and Salt River Base and Meridian.**

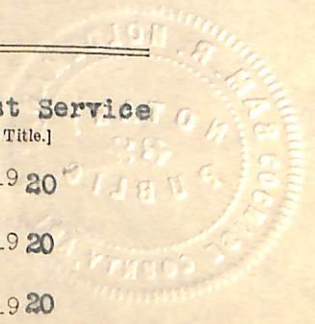
State of

**Arizona**

Applicant for listing		<b>James C. All</b>
Residence		<b>Patagonia, Arizona.</b>
Application No. <b>491</b>	, dated	<b>March 16</b> , 19 <b>17</b>
List No. <b>3-4352</b>	, dated	<b>November 8</b> , 19 <b>18</b>

Applicant for survey		
Residence		
H. E. No.	, dated	, 19
Land District		

Survey executed by <b>A. W. Hendrix, Surveyor-Draftsman, Forest Service</b>		
	[Forest Service Title.]	
Under special instructions dated	<b>March 6</b>	, 19 <b>20</b>
Survey commenced	<b>April 20</b>	, 19 <b>20</b>
Survey completed	<b>April 22</b>	, 19 <b>20</b>
Under Acts of	<b>June 11, 1906 and July 24, 1919.</b>	





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OATH OF ASSISTANTS

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

parts or portions of Homestead Entry Survey No. **614**, 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  
inconvenient and expensive to  
appear before an officer to ad-  
minister oath to Assistant;  
hence it was taken by the Surveyor.

*Herbert Grindvulle*  
-----  
*chairman*  
-----  
-----  
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Subscribed and sworn to before me this **22nd** day of  
**April**, 19 **20**

*[Signature]*  
-----  
**Surveyor-Draftsman, Forest Service**

OATH OF SURVEYOR

I, **A. W. Hendrix, Surveyor-Draftsman, 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 6**, 19 **20**, 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. **3-4352**, dated **Nov. 8**, 19 **18**, for  
**Patent**, under the Act of **June 11**, 1906,  
the same to be known as Homestead Entry Survey No. **614**,  
situated within the **Coronado** National Forest, in  
**un** surveyed Section **18**, Township **23 S.**, Range **18 E.**, and  
surveyed Section, Township, Range,

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.

*[Signature]*  
-----  
**Surveyor-Draftsman, Forest Service**  
[Forest Service Title.]

Subscribed and sworn to before me this **9<sup>th</sup>** day of  
**October**, 19 **20**

*[Signature]*  
-----  
**Notary Public**



8-2349

My commission expires **Feb 11 1923**





CORONADO NATIONAL FOREST

STATE OF ARIZONA.

Chains Applicant for listing, James C. All; Application No. 491, dated March 16, 1917; List No. 3-4352, dated November 8, 1918;

Surveyed under special instructions from the Surveyor General for Arizona, dated March 6, 1920, and designated as Homestead Entry Survey No. 614.

Situated in unsurveyed Sec. 18, T. 23 S., R. 18 E., Gila and Salt River Base and Meridian, Coronado National Forest, Arizona.

Survey commenced April 20, 1920, and executed with a Buff and Buff transit No. 10802, equipped with a Smith solar attachment.

I test the adjustments of the transit and make the 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.

April 20, 1920.

At the cor. of Secs. 7, 12, 13 and 18, T. 23 S., Rgs. 17 and 18 E., hereinafter described, Lat. 31° 26' 30" N., Long. 110° 33' 50" W. from Forest Service Base Map.

At 5h. 44m. p.m., l.m.t., I observe Polaris with telescope direct, reading an angle of 24° 16' from star to right to reference mark about 1-1/2 miles distant.

Greenwich m.t. U.C. Polaris April 20, 1920 11h.38.2m.a.m.

Correction for Long., 1.2

l.m.t. U.C. Polaris April 20, 1920; 11h.37.0m.a.m.

l.m.t. obsn. Polaris " " " 5h.44.0m.p.m.

Hour angle, 6h.07.0m.

Azimuth of star at obsn. N. 1° 19' 06" W.

Bearing of reference mark N. 22° 56' 54" E.

At the same station at 5h. 49m. p.m., l.m.t., I again



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HOMESTEAD ENTRY SURVEY NO. 614

CORONADO NATIONAL FOREST

STATE OF ARIZONA.

Chains

observe Polaris with telescope reversed, reading an angle of 24° 16' from star to right to same reference mark.

l.m.t. U.C. Polaris April 20, 1920 11h. 37.0m. a.m.

l.m.t. obsn. Polaris " " " 5h. 49.0m. p.m.

Hour angle, 6h. 12.0m.

Azimuth of star at obsn. N. 1° 19' E.

Bearing of reference object N. 22° 57' E.

The mean bearing of the reference mark as determined from the two observations is N. 22° 56' 57" E. I accept N. 22° 57' E. as the true bearing of reference object, and to the meridian thus determined all the courses of this survey were referred by sustained angulation.

April 20, 1920.

April 21, 1920. RETRACEMENT

Beginning at the cor. of Secs. 7, 12, 13 and 18, T. 23 S. Rgs. 17 and 18 E., which is a sandstone 16 x 18 x 14 ins. above ground, marked and witnessed as described by the Surveyor General.

Thence South,

Retracing along range line bet. Secs. 13 and 18, N/2.

40.15 Fall 1-1/2 lks. W. of 1/4 cor. bet. Secs. 13 and 18, which is a sandstone 6 x 6 x 6 ins. above ground, marked and witnessed as described by the Surveyor General.

Return course N. 0° 01' W. 40.15 chs.

April 21, 1920. BOUNDARIES OF CLAIM

Beginning at Cor. No. 1,

Identical with the cor. of Secs. 7, 12, 13 and 18, heretofore described (which is also cor. H/6 of the list survey) (Cor. not marked for listing survey), I chisel a + on top of sec. cor. stone for true point



## CORONADO NATIONAL FOREST

STATE OF ARIZONA.

Chains

for cor. No. 1 of this survey, and alongside to the E. set a porphyry stone 8 x 10 x 20 ins. (No larger stone available), chiseled 1 HES 614 on SE. face.

No witnesses available. Pits impracticable.

Lat. 31° 26' 30" N., Long. 110° 33' 50" W. from Forest Service Base Map.

Mag. decl. at 8 a.m. 10° 45' E. Mean mag. decl. 10° 42' E.

Thence East,

Ascend 60 ft. to cor. over rolling open land.

14.50 Enter draw, course South.

17.00 Leave draw.

26.00 Enter draw, course S. 30° W. Enter scrub oak timber.

32.00 Leave draw.

40.00 Scrub oak timber, becomes dense.

55.00 Wash in draw 20 lks. wide, course S. 15° W.

58.50 Leave draw.

60.00 To Cor. No. 2.

Identical with Cor. H/5 of list survey, which is a rhyolite stone 4 x 6 x 10 ins. marked and witnessed as described by the Forest Service. I destroy all traces of this list cor.

Deposit a porphyry stone 4 x 4 x 5 ins. marked with a + 14 ins. in the ground, over which set a porphyry stone 10 x 12 x 20 ins. (No larger stone available), chiseled + on top and 2 HES 614 on SW. face; raise a mound of stone 2 ft. base, 1-1/2 ft. high SW. of cor., whence:

An oak 10 ins. dia. bears N. 62° 30' E.

62 lks. dist.

An oak 8 ins. dia. bears N. 54° W.,

79 lks. dist.

Each blazed and scribed 2 HES + 614 B T.

Thence S. 0° 51' W.



## CORONADO NATIONAL FOREST

STATE OF ARIZONA.

Chains

Descend 10 ft. to wash over rolling land, thru scrub oak timber.

4.60 Enter draw, course W.

6.30 Wash in draw, 50 lks. wide, course W. Bottom of desc. Asc. 5 ft. to cor.

10.00 To Cor. No. 3.

Identical with cor. H/4 of the list survey, a rhyolite stone 8 x 8 x 10 ins. marked and witnessed as described by the Forest Service. I destroy all trace of this list cor.

Deposit a porphyry stone 4 x 4 x 4 ins. marked with a + 14 ins. in the ground over which set a porphyry stone 6 x 6 x 20 ins. (No larger stone available), chiseled + on top and 3 HES 614 on NW. face; raise a mound of stone 2 ft. base, 1-1/2 ft. high NW. of cor., whence:

An oak 12 ins. dia. bears N. 76° 30' W.  
137 lks. dist.

An oak 10 ins. dia. bears N. 88° 50' E.  
47 lks. dist.

Each blazed and scribed 3 HES + 614 B T.

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Thence S. 89° 57' W.

Descend 10 ft. to cor. over rolling N. slope, along S. edge of draw, thru scattered scrub oak timber.

5.20 Slope changes to W.

9.00 Enter draw, course SW.

9.90 To Cor. No. 4.

Identical with cor. H/3 of list survey, a rhyolite stone 6 x 8 x 10 ins. marked and witnessed as described by the Forest Service. I destroy all trace of this list cor.

Deposit a porphyry stone 2 x 4 x 4 ins. marked with a + 14 ins. in the ground, over which set a porphyry stone 7 x 12 x 22 ins. (No larger stone available)



CORONADO NATIONAL FOREST

STATE OF ARIZONA.

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Chains

chiseled + on top and 4 HES 614 on NW. face; raise a mound of stone 2 ft. base, 1-1/2 ft. high NW. of cor. whence:

An oak 18 ins. dia. bears N. 71° 10' E.

2.36 lks. dist.

An oak 24 ins. dia. bears S. 64° 30' W.

118 lks. dist.

Each blazed and scribed 4 HES + 614 B T.

Thence South,

Ascend 30 ft. to cor. thru scattering scrub oak timber, across draw.

- 3.00 Wash in draw, 10 lks. wide, course W.
- 3.90 Leave draw, begin steep ascent of south bank.
- 4.50 Top of steep ascent, thence over rolling W. slope.
- 6.90 Dim road, bears E. and W.
- 9.60 Draw, course W.
- 16.90 Draw course W.
- 17.30 Draw, course N. 60° W.
- 19.90 To Cor. No. 5,

Identical with Cor. H/2 of list survey, a rhyolite stone 12 x 12 x 14 ins. marked and witnessed as described by the Forest Service, I destroy all trace of this list cor.

Deposit a porphyry stone 4 x 4 x 5 ins. marked with a + 14 ins. in the ground, over which set a porphyry stone 8 x 10 x 22 ins. (No larger stone available) chiseled + on top and 5 HES 614 on NW. face; raise a mound of stone 2 ft. base, 1-1/2 ft. high NW. of cor., whence:

An oak 10 ins. dia. bears N. 7° 20' E.

1.17 lks. dist.

An oak 10 ins. dia. bears N. 62° 15' W.

1.70 lks. dist.

Each blazed and scribed 5 HES + 614 B T.

April 21, 1920.



## CORONADO NATIONAL FOREST

STATE OF ARIZONA.

Chains April 22, 1920.

Thence West,

Descend 40 ft. to cor. over rolling NW. slope, thru scattering scrub oak timber.

0.50 Draw, course N. 20° E.

2.25 Draw, course N.

22.60 Wire fence, bears N. and S.

28.00 Draw, course N.

36.00 Draw, course N.

49.97 To Cor. No. 6 and closing corner on line bet. Secs. 13 and 18.

Deposit a porphyry stone 1 x 2 x 3 ins. marked with a + 12 ins. in the ground, over which set a porphyry stone 4 x 10 x 20 ins. (No larger stone available), chiseled + on top, 6 HES 614 on NE. and C C on E. faces; raise a mound of stone 2 ft. base, 1-1/2 ft. high on closing line E. of cor., whence:

An oak 6 ins. dia. bears N. 29° 15' E.  
126 lks. dist.

An oak 6 ins. dia. bears S. 84° 35' E.  
256 lks. dist.

Each blazed and scribed C C 6 HES + 614 B T.

The 1/4 cor. bet. Secs. 13 and 18, heretofore described, bears S. 0° 01' E. 10.15 chs. dist.

The cor. of secs. 7, 12, 13 and 18, heretofore described, bears N. 0° 01' W. 30.00 chs. dist.

Cor. H/1 of the list survey, a rhyolite stone 8 x 10 x 12 ins., marked and witnessed as described by the Forest Service, bears N. 85° E. 10 lks. dist. I destroy all trace of this list cor.

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Thence N. 0° 01' W.

Along range line bet. Secs. 13 and 18. Descend 45 ft. to wash in draw, over rolling NW. slope, thru scattering scrub oak timber.



CORONADO NATIONAL FOREST

STATE OF ARIZONA.

Chains  
 8.00 Slope changes to N.  
 10.30 Enter draw, course W. Leave timber, thence over open bottom land.  
 15.00 Wash in draw, 100 lks. wide, course W. Bottom of desc. Ascend 15. ft. to cor. over bottom land.  
 16.00 Wash in draw, 10 lks. wide, course W.  
 22.50 Dim road, bears E. and W.  
 28.80 Wire fence bears E. and W. Leave draw.  
 30.00 To cor. No. 1 and place of beginning.

AREA

Total area of claim - - - - - 159.91 Acres

IMPROVEMENTS

There are no improvements on place belonging to claimant.

DESCRIPTION

The claim lies in a rolling country traversed by one large draw, varying from 5 to 15 chs. in width. Most of the land in this draw can be cultivated. There are several other small shallow draws, also containing agricultural land - approximately 60 acres in all. The rest of the claim is rolling mesa land, very little of which can be used for anything except pasture.

Approximately half of the claim is covered with a fair stand of scrub oak timber suitable for fire wood.

There is no water on claim nor any to be obtained for irrigation.

The claim was unoccupied at time of survey.

I saw no evidence of mineral on claim.

CONFLICTS AND ADJOINING CLAIMS

There are no conflicts or adjoining claims.

Patagonia, Arizona, the nearest railroad point on the



HOMESTEAD ENTRY SURVEY NO. 614

CORONADO NATIONAL FOREST

STATE OF ARIZONA.

Chains Southern Pacific Ry. lies about 20 miles in a north-westerly direction by a good wagon road.

TRAVERSE

Course	Dist.	N.	S.	E.	W.
East	60.00			60.00	
S. 0° 51' W.	10.08		10.08		1.15
S. 89° 57' W.	9.90			9.90	
South	19.90		19.90		
West	49.97				49.97
N. 0° 01' W.	30.00	30.00			.01
	179.85	30.00	29.99	60.00	60.03
		29.99			60.00

Error in Lat. and Dep. .01 .03

Closing error 1/5687

Survey completed April 22, 1920.

*Arvid J. ...*

Surveyor - Draftsman

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. 614, STATE OF Arizona (Coronado)

8-2349

CORNERS.	BEARING.	DISTANCE.	LATITUDES.		DEPARTURES.		DOUBLE M. D.	N. AREAS.	S. AREAS.
			NORTH.	SOUTH.	EAST.	WEST.			
1-2	East	60.00			60 00		60 02		
2-3	S. 0-51 W.	10.08		10 08		15	119 89	1208 49	
3-4	S. 89-57 W.	9.90		01		9 90	109 84	1 10	
4-5	South	19.90		19 90		96	99 94	1988 81	
5-6	West	49.97				49 97	49 98		
6-1	N. 0-01 W.	30.00	29 99			01	01	30	
		179.85	30 00	29 99	60 00	60 03		30	3198 40
			29 99	29 99	60 00	60 00			30
Error in Lat. and Dep.			01			03			20/ 3198 10
Closing error 1/5687									159 91 Acres 159.905
									Et 159.91

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APPROVAL

Office of the United States Surveyor General,

Phoenix, Arizona, Dec. 28, 1920

The foregoing field notes of Homestead Entry Survey No.

614

executed by *A. H. Hendrix, Surveyor Draftsman*  
[Forest Service Title]  
under his special instructions, dated *March 6*, 1920, having  
been critically examined, and the necessary corrections and explanations  
made, the said field notes, and the surveys they describe, are hereby  
approved.

*Frank P. Trott*  
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.