

U. S. DEPARTMENT OF AGRICULTURE  
FOREST SERVICE

332 add  
335 "

**FIELD NOTES**

NOV. 2-1916

SEP 12-1915

NOV 14 1917

DEC 5-1917

OF

HOMESTEAD ENTRY SURVEY NO. 331

SITUATED IN THE **PRESCOTT** NATIONAL FOREST

ADMINISTRATIVE DISTRICT NO. 3

In Section **21** , **un** surveyed, Township **15 N.**, Range **3 E.**

of the

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

State of **ARIZONA**

Applicant for listing **Edward J. Gibbons,**

Residence **Cottonwood, Arizona**

Application No. **114** , dated **November 20** , 19 **11**

List No. **3-1899** , dated **May 2** , 19 **12**

Applicant for survey **Edward J. Gibbons,**

Residence **Cottonwood, Arizona**

H. E. No. **036421 38 Dinner** , dated , 19

Office  
Land District **Phoenix, Arizona**

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

Under special instructions dated **February 11** , 19 **15**

Survey commenced **May 10** , 19 **15**

Survey completed **May 11** , 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** [Forest Service Title.] in surveying all those

parts or portions of Homestead Entry Survey No. **331**, 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 the oaths to Assistants; hence, they were taken by the Surveyor.**

*Charles D. Hoshou* Chainman  
*W. B. Baerly* Chainman

Subscribed and sworn to before me this *twenty third* day of *May*, 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 instructions of the United States Surveyor General for **ARIZONA**, dated **February 11**, 19 **15**, 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. **3-1899**, dated **May 2**, 19 **12**, for **PATENT**, under the Act of **June 11**, 19 **06**, the same to be known as Homestead Entry Survey No. **331**, situated within the **PRESCOTT** National Forest, in **un**surveyed Section **21**, Township **15 N.**, Range **3 E.**, and **--**surveyed Section **- - - - -**, Township **- - - - -**, Range **- - - - -**,

of the **G. & S. R. B. &** 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 *twelfth* day of *June*, 19 *15*.

*Elsie C. Meyer*  
Notary Public



PRESCOTT NATIONAL FOREST

STATE OF ARIZONA

Chains

Applicant for listing, Edward J. Gibbons; Application No. 114, dated November 20, 1911; List No. 3-1899, dated May 2, 1912; no filing made.

Surveyed under special instructions from the Surveyor General for Arizona, dated February 11, 1915 and designated as Homestead Entry Survey No. 331.

Situated in T. 15 N., R. 3 E., in what will probably be, when surveyed, sec. 21, Gila and Salt River Base and Meridian, Prescott National Forest, Arizona.

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

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Survey commenced May 10, 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 horizontal distances only appearing in these notes.

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May 10, 1915.

At 8h. 5.6m. a.m., l.m.t., I observe the altitude of the sun for azimuth at cor. No. 1 of this survey. The reading on the meridian brought from cor. No. 1, H. E. S. 332, which was determined by direct observations of May 8 and 9, is set at zero and the sun was observed in the lower left and upper right quadrants of the field. My watch is set for local mean time. Latitude  $34^{\circ} 41' 15''$  N., Longitude  $112^{\circ} 01' 30''$  W. Elevation 3,700 ft., obtained from Jerome Quadrangle, U. S. G. S. sheet.

Chains	Telescope	Time	Horizontal Angle	Vertical Angle
	Direct	8h. 05m. 12s.	87° 20' 00"	35° 25' 00"
	Reversed	8h. 06m. 02s.	87° 50' 00"	35° 05' 00"
<p>This defines a line which differs 0° 00' 37" from meridian brought forward by angulation from the meridian established at cor. No. 1, H. E. S. 332; and from this meridian all the courses of this survey were deflected.</p>				
<p>May 10, 1915. Beginning at cor. of secs. 4, 3, 9 and 10, T. 15 N., R. 3 E., which is a malpais stone, 24 x 8 x 8 ins., in mound of stone with 3 notches on E. and 5 on S. faces. No witnesses.</p>				
<p>Thence East.</p>				
<p>On random line bet. secs. 3 and 10.</p>				
40.13	<p>Fall 24 lks. N. of 1/4 cor. bet. secs. 3 and 10, which is a limestone 12 x 10 x 14 ins. above ground, marked 1/4 S on N. face, with mound of stone to N. Return course N. 89° 39' W., 40.13 chs.</p>			
<p>Thence East.</p>				
<p>On random line bet. secs. 3 and 10.</p>				
40.47	<p>Fall 12 lks. N. of cor. to secs. 2, 3, 10 and 11, which is a limestone 14 x 12 x 10 ins. above ground, marked and witnessed as described by the Surveyor General. Return course N. 89° 50' W.</p>			
<p>Thence South.</p>				
40.00	<p>I make a careful search for 1/4 cor. bet. secs. 10 and 11 and fail to find any trace of it.</p>			
80.00	<p>Set temp. point for cor. to secs. 10, 11, 14 and 15, on line S. bet. secs. 10 and 11. I make search but fail</p>			

PRESCOTT NATIONAL FOREST

STATE OF ARIZONA

Chains	to find any trace of original cor.
	Thence N. 89° 51' E.; from point for cor. of secs. 10, 11, 14 and 15.
39.90	I make a search for 1/4 cor. bet. secs. 11 and 14 and fail to find any trace of it.
	Return to temp. point for cor. secs. 10, 11, 14 and 15.
	Thence West, from point for cor. secs. 10, 11, 14 and 15.
40.00	I make a search for 1/4 cor. bet. secs. 10 and 15 and fail to find any trace of it.
	Return to temp. point for cor. to secs. 10, 11, 14 and 15.
	Thence South, from point for cor. secs. 10, 11, 14 and 15.
40.00	I make a search for 1/4 cor. bet. secs. 14 and 15, but fail to find any trace of it.
80.00	Set temp. point for cor. secs. 14, 15, 22 and 23. I make a search but fail to find any trace of original cor.
	Thence East, from point for cor. secs. 14, 15, 22 and 23.
40.00	I make a search for 1/4 cor. bet. secs. 14 and 23, but fail to find any trace of it.
	May 11, 1915.
	From cor. to secs. 3, 4, 9 and 10, heretofore described, I run South.
40.00	I make a search for 1/4 cor. bet. secs. 9 and 10, but fail to find any trace of it.

Chains  
80.00

I make a search for cor. to secs. 9, 10, 15 and 16, but

fail to find any trace of it.

159.67

Fall 46 lks. West of cor. H-1 of the list survey.

I am unable to locate U. S. L. M. No. 1767, mentioned in special instructions. The bearings taken upon peaks indicate it to be well out of prescribed limits.

Beginning at cor. No. 1.

I set a diorite stone 24 x 10 x 4 ins., 14 ins. in the ground, over a small stone marked with a cross, chiseled 1-HES331 on SW. face. No witnesses avail-

able, therefore dig pits, 24 x 24 x 12 ins. crosswise on claim lines 7 ft. dist.; and raise a mound of earth and rock 4 ft. base, 2 ft. high, 3-1/2 ft. dist. within the claim, whence:

Cor. to secs. 3, 4, 9 and 10, heretofore described, bears North, 159.67 chs. dist., by direct measurement.

Cor. H-1 of the list survey, which is a diorite stone 8 x 6 x 4 ins. above ground, marked and witnessed as described by the Forest Service, bears East, 46 lks. I destroy all trace of this list cor.

Lat. 34° 41' 15" N., Long. 112° 01' 30" W. Elevation

3,700 ft., from Jerome Quadrangle U. S. G. S.

Mag. Var. at 8 a.m., 14° 40' E. Mean Mag. decl., 14°

37' E.

Thence S. 89° 58' W.

Over level land.

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STATE OF ARIZONA

Chains

7.70 Road bears NW. and SE.  
 19.39 Fence bears N. and W.  
 19.39 To Cor. No. 2.

Identical with Cor. H-2 of the list survey, which is a diorite stone 10 x 6 x 6 ins. above ground marked and witnessed as described by the Forest Service. I destroy all trace of this list cor. and at this point I set a diorite stone 24 x 8 x 8 ins., 14 ins. in the ground, over a small stone marked with a cross, chiseled 2-HES331 on SE. face. No witnesses available. therefore dig pits 24 x 24 x 12 ins. crosswise on claim line, 7 ft. dist. and raise a mound of earth and rock 4 ft. base, 2 ft. high, 3-1/2 ft. dist. within the claim.

Thence S. 00° 20' E.  
 Ascend 55 ft. along gradual mesa slope.  
 20.20 Top ascent. Descend 45 ft. to arroyo.  
 26.35 Arroyo, 20 lks. wide, banks 3 ft. high, course ENE.  
 Ascend 30 ft. to ridge.  
 30.00 Top ascent. Descend 30 ft. to arroyo.  
 32.30 Arroyo, 30 lks. wide, banks 6 ft. high, course ENE.  
 Ascend 50 ft. to cor.  
 39.70 To Cor. No. 3.

Identical with cor. H-3 of the list survey, which is a diorite stone 10 x 6 x 10 ins. above ground marked and witnessed as described by the Forest Service. I destroy all trace of this list cor. and at this point I set a diorite stone 24 x 10 x 8 ins., 14 ins. in the

Chains

ground over a marked stone chiseled 3-HES331 on NE. face; and raise a mound of stone 4 ft. base, 3 ft. high within claim.

Pits impracticable. No witnesses available.

Identical with Cor. H-3 of the list survey, which is a diorite stone 10 x 6 x 6 ins. above ground marked and

Thence S. 89° 44' E. Along top of ridge in Palo Verde.

9.00 Leave top ridge and Palo Verde. Descend 95 ft. to cor.

13.70 Road bears NE. and SW. over a small stone

19.17 To Cor. No. 4. Set a diorite stone 24 x 12 x 6 ins. in the

ground over a small stone marked with a cross, chiseled

4-HES331 on NW. face. No witnesses available therefore

dig pits 24 x 24 x 12 ins. crosswise on claim lines,

7 ft. dist. and raise a mound of stone and earth 4 ft.

base, 2 ft. high, 7 ft. dist. within the claim

Cor. No. 6 H. E. S. No. 332 bears S. 00° A

06' W. or 29.44 chs. Descend 45 ft. to

Cor. H-4 of the list survey, a diorite stone

6 x 5 x 4 ins. above ground marked and wit-

nessed as described by the Forest Service

bears S. 89° 44' E., 56 lks. dist. Destroy

all trace of this list cor. Ascend 50 ft. to

Identical with cor. H-3 of the list survey, which is

Ascend 40 ft. to point of ridge. a diorite stone

51.80 Point of ridge, descended 35 ft. to arroyo.

17.30 Arroyo, 70 lks. wide, banks 12 ft. high, course ENE.

Ascend 10 ft. Set a diorite stone 24 x 10 x 6 ins. in the



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20.45 Edge of road bears NW. and SW. Descend 10 ft. to arroyo.

23.65 Arroyo, 30 lks. wide, banks 2 ft. high, course ENE.

Ascend 15 ft. up slight slope to cor.

39.78 To Cor. No. 1, place of beginning.

Total Area 76.62 Acres

IMPROVEMENTS

There are no improvements upon this claim and no fencing.

DESCRIPTION

This claim is situated on west edge of Verde Valley between Black Canyon and Oak Wash at foot of the Black Hills. The land has a general slope to ENE. and is open with exception of small patch of Palo Verde on southern boundary.

There is no water for irrigation or domestic use on this claim.

Soil is sandy loam of good depth and will support crops when irrigated.

I saw no indication of mineral upon this claim although it is in a mineralized section.

CONFLICTS AND ADJOINING CLAIMS

There are no conflicts or adjoining claims. H. E. S. No. 322 is south 3/8 of a mile.

Cottonwood, the nearest postoffice is 5 miles to the north. Jerome, the nearest railroad point is 9 miles

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STATE OF ARIZONA

Chains

by wagon road to NW. The wagon road is good to both  
places.

TRAVERSE

Cor.	Course	Dist.	N.	S.	E.	W.
1-2	S. 89° 58' W.	19.39		.01		19.39
2-3	S. 00° 20' E.	39.70		39.70	0.23	
3-4	S. 89° 44' E.	19.17		.09	19.17	
4-1	North	39.78	39.78			
		118.04	39.78	39.80	19.40	19.39
				39.78	19.39	
Error in Lat. and Dep.				.02	.01	

Closing Error 1:5280

Survey Completed May 11, 1915.

*P. R. Johnson*  
Surveyor-Draftsman.

The land has a general slope to the west and is open with exception of small patch of Palo Verde on southern boundary. There is no water for irrigation or domestic use on this claim. Soil is sandy loam of good depth and will support crops when irrigated. I saw no indication of mineral upon this claim although it is in a mineralized section.

There are no conflicts or adjoining claims. No. 331 is north 3/8 of a mile. Cottonwood, the nearest postoffice is 5 miles to the north. Jerome, the nearest railroad point is 9 miles

HOMESTEAD ENTRY SURVEY NO. 331

PRESCOTT NATIONAL FOREST

STATE OF ARIZONA

Chains

COMPUTATION

Direct solar for azimuth May 10, 1915.

Lat.  $34^{\circ} 41' 15''$  N., Long.  $112^{\circ} 01' 30''$  W.

Elevation 3,700 ft.

Observation.

Telescope	Time	Horizontal Angle	Vertical Angle	Pos. Sun
Direct	8h. 05m. 12s.	$87^{\circ} 20' 00''$	$35^{\circ} 25' 00''$	+
Reserve	8h. 06m. 02s.	$87^{\circ} 50' 00''$	$35^{\circ} 05' 00''$	+
	2) 16h. 11m. 14s.	$175^{\circ} 10' 00''$	$70^{\circ} 30' 00''$	
	8h. 05m. 37s.	$87^{\circ} 35' 00''$	$35^{\circ} 15' 00''$	
	<u>4h. 31m. 54s.</u>		<u>01' 12"</u>	
	3h. 33m. 43s.		$35^{\circ} 13' 48''$	

Decl.  $17^{\circ} 26' 54''$  N.

$$\text{Cos. } Q. = \frac{\text{Sin. } 17^{\circ} 26' 54'' \text{ N.}}{\text{Cos. } 34^{\circ} 41' 15'' \times \text{Cos. } 35^{\circ} 13' 48''}$$

$$\text{Tan. } 34^{\circ} 41' 15'' \times \text{Tan. } 35^{\circ} 13' 48''$$

$$\begin{aligned} \text{Log. sin. } 17^{\circ} 26' 54'' &= 9.476898 \\ \text{Log. cos. } 34^{\circ} 41' 15'' &= 9.915013 \\ \text{Log. cos. } 35^{\circ} 13' 48'' &= 9.912139 \\ \hline &9.649746 = \text{Log. } .44642 \end{aligned}$$

$$\begin{aligned} \text{Log. tan. } 34^{\circ} 41' 15'' &= 9.840176 \\ \text{Log. tan. } 35^{\circ} 13' 48'' &= 9.848932 \\ \hline &9.689108 = \text{Log. } .48877 \end{aligned}$$

$$\text{Cos. } Q. = .04235$$

$$Q. = 87^{\circ} 34' 23''.$$

Bearing of object, N.  $0^{\circ} 00' 37''$  E. ✓

Chains

COMPUTATION

Lines

Direct solar for azimuth May 10, 1915.  
Lat. 34° 41' 15" N., Long. 112° 01' 30" W.  
Elevation 3,700 ft.

Observation.

Pos. Sun	Vertical Angle	Horizontal Angle	Time	Telescope
+	35° 25' 00"	87° 20' 00"	8h. 05m. 12s.	Direct
+	35° 05' 00"	87° 50' 00"	8h. 05m. 02s.	Reverse
	35° 30' 00"	175° 10' 00"	8h. 11m. 12s.	(2) 10h. 11m. 12s.
	35° 13' 00"	87° 35' 00"	8h. 05m. 27s.	
	01' 12"		4h. 21m. 02s.	
	35° 13' 48"		3h. 33m. 48s.	

Decl. 17° 26' 54" N.

$$\cos. \phi. = \frac{\sin. 17^{\circ} 26' 54'' \text{ N.} \times \cos. 35^{\circ} 13' 48''}{\cos. 34^{\circ} 41' 15'' \text{ N.} \times \cos. 35^{\circ} 13' 48''}$$

$$\tan. 34^{\circ} 41' 15'' \text{ N.} \times \tan. 35^{\circ} 13' 48''$$

$$\begin{aligned} \log. \sin. 17^{\circ} 26' 54'' &= 9.47898 \\ \log. \cos. 34^{\circ} 41' 15'' &= 9.91013 \\ \log. \cos. 35^{\circ} 13' 48'' &= 9.91212 \\ \hline 9.44099 &= \log. \end{aligned}$$

$$\begin{aligned} \log. \tan. 34^{\circ} 41' 15'' &= 9.84016 \\ \log. \tan. 35^{\circ} 13' 48'' &= 9.84822 \\ \hline 9.88819 &= \log. \end{aligned}$$

$$\cos. \phi. = .04325$$

$$\phi. = 87^{\circ} 34' 23''$$

Bearing of object, N. 02° 00' 37" E.



APPROVAL

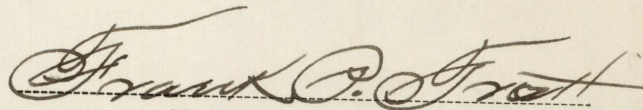
Office of the United States Surveyor General,

Phoenix, Arizona, April 16 , 1917

The foregoing field notes of Homestead Entry Survey No.

331

executed by R. P. A. Johnson, Surveyor Draftsman <sup>[Forest Service Title.]</sup>  
under his special instructions, dated February 11 , 1915, 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.

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Frank P. Trott,  
U. S. Surveyor General.