

U. S. DEPARTMENT OF AGRICULTURE  
FOREST SERVICE

MAY 13-1915  
MAY 26 1916

**FIELD NOTES**

OF

HOMESTEAD ENTRY SURVEY NO. 171

SITUATED IN THE

CROOK NATIONAL FOREST

ADMINISTRATIVE DISTRICT NO. 3

in

Section 22, unsurveyed, Township 10 S, Range 25 E.

Section 27, unsurveyed, Township 10 S, Range 25 E.

of the

Gila and Salt River Base and Meridian.

ARIZONA

Survey executed by Walter G. Turley, Surveyor-Forest Service

Under special instructions dated February 17, 1914

Survey commenced March 12, 1914

Survey completed March 13, 1914

Under Acts of June 11, 1906 and March 4, 1913

Applicant for listing Thomas Richards

Residence Safford, Arizona

Application No. 5, dated February 21, 1907

List No. 717, dated November 27, 1907

Applicant for survey Thomas Richards

Residence Safford, Arizona

H. E. No. 01692, dated November 27, 1908

Land district Phoenix, Arizona

OATH OF ASSISTANTS

We hereby certify that we assisted Walter G. Turley  
Surveyor-Forest Service in surveying all those  
parts or portions of Homestead Entry Survey No. 171, in  
unsurveyed Section 22, Township 10 S., Range 25 E.,  
unsurveyed Section 27, Township 10 S., Range 25 E.,  
of the G. & S.R.B. & meridian, State of Arizona, which  
are represented in the following field notes as having been  
surveyed by him and under his direction; and that said sur-  
vey 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 fur-  
nished by the United States Surveyor General for Arizona.

Note: It would have been  
very inconvenient and ex-  
pensive to appear before  
an officer to administer  
the oaths to Assistants;  
hence, they were taken by  
the Surveyor.

R. P. A. Johnson Chairman  
George Von Gausig Chairman

Subscribed and sworn to before me this 15 day of  
March, 1914

Walter G. Turley  
Surveyor-Forest Service

OATH OF SURVEYOR Service

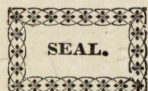
I, Walter G. Turley, Surveyor Forest, do solemnly swear  
that, in strict conformity with the special instructions of  
the United States Surveyor General for Arizona, dated  
February 17, 1914, and the laws of the United States, I have  
well, faithfully, and truly, in my own proper person, sur-  
veyed a tract of land ~~upon the application of~~ embraced in  
List, No. 717, dated November 27, 1907, for  
Patent, under the Act of June 11, 1906,  
the same to be known as Homestead Entry Survey No. 171,  
situated within the CROOK National Forest, in  
unsurveyed Section 22, Township 10 S., Range 25 E., and  
unsurveyed Section 27, Township 10 S., Range 25 E.,

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 perpet-  
uated in strict accordance with the stated special instruc-  
tions, and in the specific manner described in the field  
notes, and that the following are the original field notes  
of such survey.

Walter G. Turley  
Surveyor-Forest Service

Subscribed and sworn to before me this 30 day of  
April, 1914.

Robert T. Sewell  
Notary Public



8-2249

my comm. expires  
Feb 11 1917

## CROOK NATIONAL FOREST

STATE OF ARIZONA

Chains

Applicant for listing, Thomas Richards; Application No. 8.50.5, dated February 21, 1907. List No. 717, dated November 27, 1907; H. E. No. 01692, made at Phoenix, Arizona November 27, 1908 by Thomas Richards.

Surveyed under Special instructions from the Surveyor General for Arizona, dated February 17, 1914, and designated as Homestead Entry Survey No. 171.

Situated on unsurveyed land, in what will probably be, when surveyed, Secs. 22 and 27, T. 10 S., R. 25 E., Gila and Salt River Base and Meridian, within the Crook National Forest, Arizona.

Surveyed under the Acts of June 11, 1906 and March 4, 1913.

Survey commenced March 12, 1914 and executed with a W. and L. E. Gurley light mountain transit with vertical circle and Burt solar attachment.

I test the adjustments of the transit and make necessary corrections. The stadia is adjusted to read 1:132.

All measurements were made on the slope with a 400 link steel tape and a Philadelphia stadia rod, and the slope angles measured with a clinometer.

March 12, 1914.

At 8h. 04.9 m. p.m., l.m.t., I observe Polaris at Western elongation at cor. No. 1, and mark my line of sight upon the ground.

Azimuth of Polaris at W. elong.  $1^{\circ} 21' 44''$

Latitude  $32^{\circ} 33' 22''$  N. Longitude  $109^{\circ} 46'$  W. at cor. No. 1

by account from values given in Special instructions of the Surveyor General.

March 13, 1914.

At 6h. 15m. a.m., l.m.t., I observe Polaris at cor.

No. 1.

Chains	<p>Astron. l.m.t. obsn. March 12, 1914 18h. 15m.</p> <p>Astron. l.m.t., U. C. Pol. March 12, 1914 <u>2h. 08.8</u></p> <p>Hour angle of Pol. at obsn. 16h. 07.2m.</p> <p><u>23 56.1</u></p> <p>Time argument 7h. 49.9m.</p> <p>Azimuth of Polaris <math>1^{\circ} 11' 48''</math> E.</p> <p>I turn off the azimuth <math>1^{\circ} 12'</math> to the West and my line of sight differs <math>0^{\circ} 00' 30''</math> of arc from the line established by turning off the azimuth <math>1^{\circ} 22'</math> from my last night's observation. I mark the mean of these two observations and from the corresponding meridian all the courses of this survey were deflected.</p>
15.90	<p>Thence South</p> <p>On a random line.</p> <p>To cor. of Secs. 22, 23, 26 and 27, which is a granite stone 14 x 8 x 12 ins. above ground, marked and witnessed as described by the Surveyor General.</p>
40.03	<p>Thence South</p> <p>On a random line.</p> <p>The 1/4 sec. cor. to Secs. 26 and 27, which is a granite stone 14 x 8 x 30 ins. set in a mound of stone, marked and witnessed as described by the Surveyor General.</p>
63.85	<p>To cor. H-2 of the list survey, which is a granite stone 10 x 9 x 7 ins. above ground, marked and witnessed as described by the Forest Service.</p>
80.05	<p>The cor. of Secs. 26, 27, 34 and 35, which is a granite stone 14 x 14 x 30 ins. set in a mound of stone marked and witnessed as described by the Surveyor General.</p>
15.90	<p>I return to cor. of Secs. 22, 23, 26 and 27.</p> <p>Thence North.</p> <p>To cor. No. 1 of the list survey, which is a granite stone</p>

TERRACROOK NATIONAL FOREST

STATE OF ARIZONA

Chains 9 x 7 x 16 ins. set in a mound of stone, marked and witnessed as described by the Forest Service.

39.30 The W. C. for the 1/4 sec. cor. bet. secs. 22 and 23, which is a granite rock 36 x 14 x 14 ins. set in a mound of stone, marked and witnessed as described by the Surveyor General.

This cor. is 40.75 chs. dist. from the cor. of secs. 22, 23, 26 and 27, according to the record of the Surveyor General. Therefore to check my line I run the following traverse around the hill which stands upon the line:

Course	Dist.	N	S	E	W
S. 26° 33' W.	12.63		11.28		5.65
S. 50° 00' W.	18.87		12.13		14.46
South	15.91		15.91		
East	20.06			20.08	
		0.00	39.32	20.08	20.11

Therefore I conclude that my measurement is correct.

Cor. No. 1.

Identical with H-1 of the list survey, heretofore described, I mark a cross (+) and 1-HES171 CC on the imbedded granite boulder 15 x 9 x 7 ft. above ground; and raise a mound of stone 2 ft. base, 1-1/2 ft. high, SW. of cor., from which:

A well 4 x 4 x 20 ft. deep, and pump, the center of which bears S. 35° W., 15.00 chs. dist.

W. C. to 1/4 sec. cor. bet. secs. 22 and 23, heretofore described, bears N. 23.40 chs. dist.

Cor. of secs. 22, 23, 26 and 27, heretofore described bears S. 15.90 chs. dist.

Pits impracticable. No bearings available.

Mag. Va. at 8 a.m., 13° 40' E. Mean Mag. Va. 13° 37' E.

Note: The list cor. was a marked stone upon the large

Chains stone in place. I therefore destroy the list cor. and mark the stone in place for cor. No. 1.

Thence South

Along line bet. secs. 22 and 23.

Descend SW. slope 10 ft.

0.75 Ravine, course W. Ascend. NW. slope 20 ft.

4.00 Spur bears SE. and NW. Descend 75 ft.

10.50 Foot of hill, bears NW. and SE. Continue ascending over rolling NW. slope 55 ft. to cor.

14.75 Ranch road, bears NW. and SE.

15.90 Cor. of secs. 22, 23, 26 and 27, heretofore described.

Continue South bet. secs. 26 and 27.

55.93 1/4 sec. cor. bet. secs. 26 and 27, heretofore described.

79.57 To cor. No. 2.

Identical with H-2 of the list survey, which is a granite stone 8 x 6 x 7 ins. above ground, marked and witnessed as described by the Forest Service. I destroy all trace of the list cor. and at this point I set a granite stone 24 x 10 x 6 ins., 14 ins. in the ground, over a marked stone, for cor. No. 2 and a closing cor., marked 2-HES171 on the NW. face and CC on the W. face; and raise a mound of stone 2 ft. base, 1-1/2 ft. high, West of cor., from which:

A mesquite 4 ins. dia., bears N. 87° 51' E.,

230 lks. dist., marked 2 H E S 171 B T.

Cor. of secs. 26, 27, 34 and 35, heretofore

described, bears S. 16.20 chs. dist.

1/4 cor. bet. secs. 26 and 27, heretofore

described, bears N. 23.82 chs. dist.

No other witnesses available. Pits impracticable.

## CROOK NATIONAL FOREST

STATE OF ARIZONA

Chains	Thence S. 89° 36' W. Descend rolling N. slope 10 ft. to ravine.
17.75	Ravine, course N. Ascend 10 ft.
19.80	To cor. No. 3. Identical with H-3 of the list survey, which is a granite stone 7 x 5 x 7 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 granite stone 28 x 14 x 9 ins., 18 ins. in the ground, over a marked stone, for cor. No. 3, marked 3-HES171 on the NE. face; and raise a mound of stone 2 ft. base, 1-1/2 ft. high, NE. of cor., from which: An oak 4 ins. dia., bears S. 44° W., 92 lks. dist., marked 3 H E S 171 B T. No other witnesses available. -Pits impracticable.
	Thence N. 00° 14' W. Descend rolling N. slope 70 ft. to spring branch.
27.32	Fence, bears E. and W. Enter pasture.
76.25	Right bank spring branch, 30 lks. wide, banks 2 ft. high, course NE. Ascend 10 ft.
79.75	To cor. No. 4. Identical with H-4 of the list survey, which is a granite stone 9 x 4 x 9 ins. above ground, marked and witnessed as described by the Forest Service. I destroy all trace of the list cor. and at this point I set a granite boulder 30 x 9 x 8 ins., 20 ins. in the ground, over a marked stone, for cor. No. 4, marked 4-HES171 on the SE. face; and raise a mound of stone 2 ft. base, 1-1/2 ft. high, SE. of cor., from which: A sycamore 10 ins. dia., bears S. 49° 20' E., 196 lks. dist., marked 4 H E S 171 B T. A sycamore 9 ins. dia., bears S. 33° 45' E.,

Chains

226 lks. dist., marked 4 H E S 171 B T.

Thence S. 89° 55' E.

Descend E. slope 15 ft.

2.10 Left bank spring branch, 30 lks. wide, banks 2 ft. high,

course N. Ascend 10 ft. to foot of hill over rolling land.

10.10 Fence, bears NNW. and SSE. Leave pasture.

12.20 Foot of hill, bears N. and S. Leave rolling land and ascend granite ledges 100 ft. to spur.

16.10 Spur bears NE. and SW. Descend SW. slope 15 ft.

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

AREA

Total Area - - - - - 158.99 acres.

IMPROVEMENTS

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

An adobe dwelling 18 x 33 ft., the long side of which bears N. and S. and the NW. cor. bears S. 54° 30' E., 3.94 chs. dist. from cor. No. 4.

Value ----- \$250.00

A well 4 x 4 x 20 ft. deep, the center of which bears S. 60° E., 3.66 chs. dist. from cor. No. 4.

Value ----- \$100.00

A rock stable 16 x 36 ft., the long side of which bears E. and W. and the NW. cor. bears S. 73° 25' E., 3.80 chs. dist. from cor. No. 4.

Value ----- \$100.00

A rock smoke house 8 x 12 ft., the long side of which bears E. and W. and the NW. cor. bears S. 87° 55' E.,



CROOK NATIONAL FOREST

STATE OF ARIZONA

Chains

3.40 chs. dist. from cor. No. 4.

Value ----- \$ 25.00

A well at corral 4 x 4 x 28 ft. deep, and pump, the center of which bears S. 43° 35' E. 16.85 chs. dist. from cor. No. 4.

Value ----- \$100.00

Fencing and corral.

Value ----- \$100.00

DESCRIPTION.

This claim is situated at the foot of the Graham mountains on a general N. slope.

There is surface water during the winter months, but during the summer water is pumped from wells for cattle.

There is not sufficient water for irrigation.

I saw no indication of mineral upon this claim.

Safford postoffice and railway station is 25 miles in a Northerly direction.

CONFLICTS AND ADJOINING CLAIMS

There are no conflicts or adjoining claims.

TRAVERSE

Cor.	Course	Dist.	N	S	E	W
1	South	79.57		79.57		
2	S. 89° 36' W.	19.80		0.14		19.80
3	N. 00° 14' W.	79.75	79.75			0.32
4	S. 89° 55' E.	20.12		0.03	20.12	
		199.24	79.75	79.74	20.12	20.12
			79.74		20.12	
Error in Lat. and Dep.			.01		.00	

Closing error 1:19924.

*Walter G. Turley*  
Surveyor - Forest Service.

NATIONAL FOREST

STATE OF

Chains

Value ----- \$100.00  
 A well of coral 4 x 4 x 28 ft. deep, and pump, the cen-  
 ter of which bears S. 53° 55' N. 18.33 chs. dist. from  
 cor. No. 4.  
 Value ----- \$100.00  
 Wearing and survey.

DESCRIPTION

This claim is situated at the foot of the Graham  
 mountains on a general N. slope.  
 There is surface water during the winter months, but dur-  
 ing the summer water is pumped from wells for cattle.  
 There is not sufficient water for irrigation.  
 I saw no indication of mineral upon this claim.  
 Railroad postoffice and railway station is 25 miles in a  
 northerly direction.

CONFLICTS AND ADJOINING CLAIMS

There are no conflicts or adjoining claims.

TRAVEL

Cor.	Course	Dist.	N	S	E	W
1	South	79.57		79.57		
2	S. 89° 36' W.	19.80		0.14	19.66	
3	N. 00° 14' W.	79.75	79.75		0.02	
4	S. 89° 55' W.	80.18		0.03	80.15	
		199.30	79.75	79.74	80.18	19.68
			79.74		80.15	
			0.01		0.00	

Error in lat. and dep.  
 Closing error 1:19324

Surveyor & Forest Officer

Chains

Detailed Computation.

Lat.  $32^{\circ} 33' 22''$  N., at cor. No. 1, from special instructions of Surveyor General.

Long.  $109^{\circ} 46'$  W., at cor. No. 1, from special instructions of Surveyor General.

Polaris at W. Elong., March 12, 1914.

8h. 05.2m., p.m., W. elong. of Pol. at Greenwich,  
Lat.  $40^{\circ}$  N.

1.2m., siderial correction.

8h. 04.0m.

0.9m., correction to Lat.  $32^{\circ} 33' 22''$ .

8h. 04.9m., p.m., W. elong. of Pol. at cor. No. 1.

$88^{\circ} 51' 06''.5$ , decl. of Pol., March 12, 1914.

Interpolate p. 16, G. L. O. Ephemeris.

$01^{\circ} 21' 44''$ , Azimuth of Pol. at W. elong.

Polaris observation March 13, 1914 at 6h. 15m., a.m.,  
l.m.t.

18h. 15.0m., Astron. l.m.t. obsn., March 12, 1914.

2h. 10.0m. - 1.2m. (siderial correction) is  
2h. 08.8m.

2h. 08.8m., Astron. l.m.t. U.C. Pol., March 12, 1914.

16h. 06.2m., Hour Angle of Pol. at obsn.

23h. 56.1m.

7h. 49.9m., Time argument.

$88^{\circ} 51' 06''.5$ , decl. of Pol., March 12, 1914.

$01^{\circ} 11' 48''$ , Azimuth of Pol. at obsn.

T.A.

Chains

<p>1000</p>	<p>1000</p>
<p>1000</p>	<p>1000</p>
<p>1000</p>	<p>1000</p>
<p>1000</p>	<p>1000</p>

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.

8-2349 **TABLING AND CALCULATIONS OF HOMESTEAD ENTRY SURVEY NO. 171, STATE OF ARIZONA, CROOK, THOMAS-RICHARDS.**

CORNERS.	BEARING.	DISTANCE.	LATITUDES.		DEPARTURES.		DOUBLE M. D.	N. AREAS.	S. AREAS.
			NORTH.	SOUTH.	EAST.	WEST.			
1	South	79.57		79.57			40.24		3201.90
2	S. 89° 36' W.	19.80		0.14		19.80	20.44		2.86
3	N. 00° 14' W.	79.75	79.75			0.52	0.32	25.52	
4	S. 89° 55' E.	20.12		0.03		20.12	20.12		0.60
		199.24	79.75	79.74	20.12	20.12		25.52	3205.36
			79.74	79.74	20.12	20.12		25.52	3179.84
	Closing error 1:19924.							158.99	Area.
									T.A

14 81

COBZERS	BEVETIG	DISTANCE	MILLIGES			DEBYLIGHEZ			DOUBTE W D	A VETIG	B VETIG
			MOEN	ZONEN	EVEN	AVAR					
1	10.00	10.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	11.00	11.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
3	12.00	12.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
4	13.00	13.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	

LABLING VND CATEGORIEZ OF HOMESLEAD EMERY SUBLEY MO. JAN STATE OF MISSOURI

1. Only three copies of this certificate are necessary for the District Office, the Surveyor General, and the Commissioner.  
 2. In computations of millage take care to include the 1/2 cent millage of 1/2 and 1/4 millage that will appear on the second quarter. Millages are referred to the Standard Elevation Table printed by the G. P. O.  
 The State Board for Public Utilities should be notified of the location of the lines.  
 Let the course of lines be clearly shown in any map. Do not confuse the location of the existing lines, but first refer to the corrected location in the map.  
 In reporting distances and elevations do not abbreviate or change the original figures.  
 This certificate is valid only when filed in the office of the Surveyor General.  
 Form No. 3—revised 1917

APPROVAL

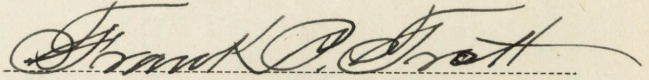
Office of the United States Surveyor General,

Phoenix, Arizona, May 29, 1916.

The foregoing field notes of Homestead Entry Survey No.

171

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executed by Walter G. Turley, Surveyor-Forest Service  
under his special instructions, dated February 17, 1914,  
having been critically examined, and the necessary correc-  
tions and explanations made, the said field notes, and the  
surveys they describe, are hereby approved.

  
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U. S. Surveyor General.

I certify that the foregoing transcript of the field  
notes of the above-described survey in Arizona,  
has been correctly copied from the original notes on file in  
this office.

Frank P. Trott  
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U. S. Surveyor General.