

U. S. DEPARTMENT OF AGRICULTURE

FOREST SERVICE

MAR. 2- 1917

405

**FIELD NOTES**

OF

HOMESTEAD ENTRY SURVEY NO. 405

SITUATED IN THE TONTO NATIONAL FOREST

ADMINISTRATIVE DISTRICT NO. 3

In Section 19 , unsurveyed, Township 6 N. , Range 14 E.

In Section 30 , unsurveyed, Township 6 N. , Range 14 E.

of the

Gila and Salt River Base and Meridian.

State of

ARIZONA

Applicant for listing Mrs. Haidee Rose, ✓

Residence Kirby, Arizona.

Application No. 420 ✓ , dated August 13 , 1913 ✓

List No. 3-2943 ✓ , dated December 19 , 1913 ✓

Applicant for survey Benjamin L. Rogers, ✓

Residence Kirby, Arizona

H. E. No. 025615 ✓ , dated October 22 , 1914 ✓

Office  
Land District Phoenix, Arizona

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

Under special instructions dated September 23 , 1915 ✓

Survey commenced March 7 , 1916

Survey completed March 8 , 1916

Under Acts of June 11, 1906 and March 4, 1915. ✓



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OATH OF ASSISTANTS

We hereby certify that we assisted **Walter G. Turley,**  
**Surveyor - Forest Service** in surveying all those  
[Forest Service Title.]  
parts or portions of Homestead Entry Survey No. **405**, 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 the oaths  
to Assistants; hence, they  
were taken by the Surveyor.

*Charles A. Baecht*, Chairman  
*Fred D. Lewis*, Chairman  
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Subscribed and sworn to before me this *twenty eighth* day of  
*March*, 19*16*. *Walter G. Turley*  
*Surveyor Forest Service*

OATH OF SURVEYOR

I, **Walter G. Turley,** **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  
**September 23**, 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. 3-2943, dated December 19, 1913, and a tract  
of land upon the application of Benjamin L. Rogers,

Application, No. **603**, dated **October 23**, 19**15**, for  
Patent, under the Act of **June 11**, 19**06**,  
the same to be known as Homestead Entry Survey No. **405**,  
situated within the **TONTO** National Forest, in  
unsurveyed Section **19**, Township **6 N.**, Range **14 E.**, and  
unsurveyed Section **30**, Township **6 N.**, Range **14 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.

*Walter G. Turley*  
*Surveyor Forest Service*  
[Forest Service Title.]

Subscribed and sworn to before me this *8th* day of  
*April*, 19*16*

*Elsie C. Myers*  
*Notary Public*



8-2349

My Commission expires April 20, 1918.



TONTO NATIONAL FOREST

STATE OF ARIZONA

Chains Applicant for listing Mrs. Haidee Rose; Application No. 420, dated August 13, 1913; List No. 3-2943, dated December 19, 1913; Homestead Entry No. 025615, made in the Phoenix Land Office on October 22, 1914 by Benjamin L. Rogers, whose post office address is Kirby, Arizona. Also a small tract of unlisted land adjoining claimant's entry on Northwest was included in this survey. The land is agricultural in character, was desired by the entryman and will be listed as a basis for amendment of this entry No. 025615; Application No. 603, dated October 23, 1915.

Surveyed under Acts of June 11, 1906 and March 4, 1915, together with special instructions from the Surveyor General for Arizona, dated September 23, 1915, and designated as Homestead Entry Survey No. 405.

Situated in what will probably be, when surveyed, secs. 19 and 30, T. 6 N., R. 14 E., Gila and Salt River Base and Meridian, within the Tonto National Forest, Arizona.

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Survey commenced March 7, 1916, and executed with a W. and L. E. Gurley light mountain transit No. 12953, provided with prism eye piece, stadia wires, vertical circle, and Burt solar attachment. The horizontal limb of the transit has two double verniers placed opposite each other, and graduated to single minutes of arc, which is also the graduation upon the verniers of the latitude and declination arcs.

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

All distances are horizontal, and were reduced from measurements made directly on the slope with a 500 link steel tape graduated to links and tenths. The slope angles were determined with a clinometer, the vernier



Chains of which reads to degrees.

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March 7, 1916.

I set up my transit over cor. H-1 of List 3-2943, which is a sandstone 10 x 4 x 5 ins. above ground, marked and witnessed as described by the Forest Service; and, with telescope direct, I observe Polaris in accordance with instructions at 6h. 10m. p.m., l.m.t., and mark the direction thus determined with a tack in a stake set firmly in the ground 5.00 chs. N. of my station, in Lat.  $33^{\circ} 27' 27''$  N. and Long.  $110^{\circ} 57' 27''$  W., from special instructions from the Surveyor General.

Astron. l.m.t. obsn., March 7, 1916, 6h. 10.0m.  
 Astron. l.m.t. U.C. Pol., March 7, 1916, 2h. 27.7m.  
 Hour angle Pol. at obsn., 3h. 42.3m.  
 Azimuth Pol. at obsn.,  $1^{\circ} 08' 06''$  W.

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With my transit set up over cor. H-1 of List 3-2943, heretofore described, and with telescope reversed in altitude and azimuth, at 6h. 25m. p.m., l.m.t., on the same date, I again observe Polaris in accordance with instructions, and mark the direction thus determined with a tack in a stake set firmly in the ground, 5.00 chs. N. of my station.

Astron. l.m.t. obsn., March 7, 1916, 6h. 25.0m.  
 Astron. l.m.t. U.C. Pol., March 7, 1916, 2h. 27.7m.  
 Hour angle Pol. at obsn., 3h. 57.3m.  
 Azimuth of Pol. at obsn.,  $1^{\circ} 10' 54''$  W.

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March 8, 1916.

I turn off  $1^{\circ} 08'$ , the azimuth of Polaris, to the E. from its direction at 6h. 10m. p.m., l.m.t., March 7, 1916; and mark the line thus determined with a tack in a



## TONTO NATIONAL FOREST

## STATE OF ARIZONA

Chains

stake set firmly in the ground 5.00 chs. N. of my station.

I also turn off  $1^{\circ} 11'$ , the azimuth of Polaris, to the E. from its direction at 6h. 25m. p.m., l.m.t., and mark the line thus determined with a tack in a stake set firmly in the ground 5.00 chs. N. of my station. This line falls  $0^{\circ} 00' 32''$  of measured arc to the W. of the line previously established.

I mark the mean of these two lines with a tack in a stake set firmly in the ground 5.00 chs. N. of my station; and from the corresponding meridian, all the courses stated in these field notes were deflected and referred by continuous sustained angulation.

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Latitude  $33^{\circ} 50' 30''$  N., and Longitude  $110^{\circ} 57' 31''$  W. at cor. No. 1 of this survey, by account from values stated in the special instructions of the Surveyor General.

It was cloudy and not possible to check the latitude by direct observation during the execution of this survey. My watch is set for Standard 105th. Meridian time, from which I subtract 23m. 50s. for l.m.t.

Observed magnetic declination at cor. No. 1, at 8h. 00m. a.m.,  $15^{\circ} 15'$  E. Mean magnetic declination  $15^{\circ} 12'$  E.

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There is no corner of the public land survey within two miles of this claim. This survey is therefore tied to U. S. L. M. No. 148 H. E. S., located on the point of a ridge approximately 90 lks. South of Workman Creek and 3.90 chs. East of Connor Creek, and is a + chiseled at the point and U S L M No 148 H E S on top of a porphyry ledge, 16 ft. high, which bears SW. and SE., with mound of stone 6 ft. base, 4 ft. high, South of cor., from which:



Chains

A 12 in. white oak, scribed U S L M No 148 H E S + B T, bears West, 65 lks.

A 9 in. pine scribed U S L M No 148 H E S + B T, bears S. 18° 00' W., 87 lks.

A 6 in. black oak scribed U S L M No 148 H E S + B T, bears S. 16° 35' E., 55 lks.

A 10 in. alder scribed U S L M No 148 H E S + B T, bears N. 13° 50' W., 60 lks.

Cor. to Ts. 6 and 7 N., Rs. 13 and 14 E., which is a granite stone 9 x 6 x 5 ins. above ground, marked and witnessed as described by the Surveyor General, bears N. 13° 46' 16" E., 297.34 chs., by traverse, details of which are hereto attached.

Beginning at cor. No. 1.

I chisel + on a stone 4 x 4 x 2 ins., and deposit it 15 ins. in the ground; over which I set a sandstone 25 x 10 x 6 ins., 15 ins. in the ground; chiseled (+) at the point and 1 - H E S 405 on the E. face; and raise a mound of stone 2 ft. base, 1-1/2 ft. high, over the cor., from which:

A 10 in. alder bears N. 67° 14' W., 11 lks., blazed and scribed 1 H E S 405 + B T.

A 5 in. walnut bears N. 40° 10' E., 29 lks., blazed and scribed 1 H E S 405 + B T.

U. S. L. M. No. 148 H. E. S., heretofore described, bears N. 76° 37' 14" W., 97.75 chs., by traverse, details of which are hereto attached.

Thence N. 82° 32' E.

Asc. brushy S. slope 20 ft. over unlisted land.

0.05 trail bears NW. and SE.

12.84 To cor. No. 2.



PHOENIX NATIONAL FOREST

STATE OF ARIZONA

Chains

Identical with cor. H-2 of List 3-2943, which is a granite stone 10 x 3 x 4 ins. above ground, marked and witnessed as described by the Forest Service. I destroy cor. H-2 and its witnesses; and, for cor. No. 2 of this survey, I chisel (+) on a stone 4 x 4 x 2 ins., and deposit it 14 ins. in the ground; over which I set a granite stone 24 x 10 x 9 ins., 14 ins. in the ground, chiseled (+) at the point and 2 - H E S 405 on the S. face; and raise a mound of stone 2 ft. base, 1-1/2 ft. high S. of cor., from which:  
 A 4 in. white oak bears N. 3° 28' W., 20 lks.,  
 blazed and scribed 2 H E S 405 + B T.  
 A 4 in. white oak bears N. 78° 47' W., 19 lks.,  
 blazed and scribed 2 H E S 405 + B T.

Thence S. 22° 32' E. Desc. brushy SW. slope 10 ft. Over listed land.

10.60 To cor. No. 3.

Identical with cor. H-3 of List 3-2943, which is a sandstone 15 x 2 x 5 ins. above ground, marked and witnessed as described by the Forest Service. I destroy cor. H-3 and its witnesses; and, for cor. No. 3 of this survey, I chisel (+) on a stone 4 x 4 x 3 ins., and deposit it 14 ins. in the ground; over which I set a sandstone 24 x 9 x 5 ins., 14 ins. in the ground; chiseled (+) at the point and 3 - H E S 405 on the NW. face; and raise a mound of stone 2 ft. base, 1-1/2 ft. high NW. of cor., from which:  
 A 16 in. white oak bears S. 23° 58' W., 43 lks.,  
 blazed and scribed 3 H E S 405 + B T.  
 A 20 in. white oak bears N. 13° 51' W., 23 lks.,  
 blazed and scribed 3 H E S 405 + B T.

Thence N. 76° 46' W.



Chains	<p>Desc. brushy bottom 5 ft.</p> <p>1.88 Pole fence bears N. and S. Enter cleared land.</p> <p>9.13 To cor. No. 4.</p> <p>Identical with cor. H-4 of List 3-2943, which is a sandstone 12 x 3 x 6 ins. above ground, marked and witnessed as described by the Forest Service. I destroy cor. H-4 and its witnesses; and, for cor. No. 4 of this survey, I chisel (+) on a stone 4 x 4 x 3 ins., and deposit it 15 ins. in the ground, over which I set a sandstone 25 x 11 x 4 ins., 15 ins. in the ground, chiseled (+) at the point and 4 - H E S 405 on the NE. face; and raise a mound of stone 2 ft. base, 1-1/2 ft. high over the cor., from which:</p> <p style="padding-left: 40px;">A 7 in. pine bears S. 81° 30' W., 4 lks., blazed and scribed 4 H E S 405 + B T.</p> <p style="padding-left: 40px;">A 30 in. pine bears S. 21° 22' W., 76 lks., blazed and scribed 4 H E S 405 + B T.</p>
	<p>Thence N. 35° 00' W.</p> <p>Over cleared land.</p>
3.97	<p>To cor. No. 5.</p> <p>Identical with cor. H-1 of List 3-2943, which is a sandstone 10 x 4 x 5 ins. above ground, marked and witnessed as described by the Forest Service. I destroy cor. H-1 and its witnesses, and for cor. No. 5 of this survey, I chisel (+) on a stone 4 x 4 x 3 ins., and deposit it 17 ins. in the ground, over which I set a sandstone 27 x 11 x 4 ins., 17 ins. in the ground, chiseled (+) at the point and 5 - H E S 405 on the NE. face; and raise a mound of stone 2 ft. base, 1-1/2 ft. high over the cor., from which:</p> <p style="padding-left: 40px;">A 17 in. white oak bears S. 26° 35' W., 30 lks., blazed and scribed 5 H E S 405 + B T.</p> <p style="padding-left: 40px;">A 16 in. white oak bears S. 18° 30' E., 40 lks.,</p>



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blazed and scribed 5 H E S 405 + B T.

Thence N. 63° 56' W.

Enter unlisted land. Desc. SW. slope 5 ft.

0.15 Enter cultivated land bears NE. and SW.

4.57 Pole fence bears NE. and SW. Leave cultivated land.

Continue in undergrowth.

6.06 Trail bears NW. and SE.

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

AREA

Listed Area - - - - - 5.58 acres

Unlisted Area - - - - - 2.25 acres

Total Area - - - - - 7.83 acres

IMPROVEMENTS

A frame and log dwelling 24 x 14 ft., the long side extending E. and W. and the NW. cor. of which bears S. 50° 28' E., 2.23 chs. from cor. No. 5 of this survey.

Estimated Value ----- \$100.00

A frame chicken house, 10 x 7 ft., the long side extending E. and W. and the SW. cor. of which bears N. 81° 15' E., .68 chs. from cor. No. 5 of this survey.

Estimated Value ----- \$ 15.00

Approximately 2 acres of cultivated land.

Approximately 1/2 mile of fencing.

Estimated Value ----- \$ 50.00

DESCRIPTION

This claim is situated on Workman Creek, a tributary to Salt River and is valuable for gardening and stock raising.



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The soil is a dark loam and produces the ordinary crops of the temperate zone. Good vegetables and corn have been raised.

Sufficient water for all purposes flows in Workman Creek.

This section is timbered and a few pine trees are included in this survey.

This section is not reported to be mineralized, and no townsites, mining, coal or oil claims are known to have been located in conflict herewith.

There are no conflicts or adjoining claims.

Kirby post office is 26 miles by trail and wagon road in a Southerly direction. - Globe railway station is 52 miles by trail and wagon road in a Southeasterly direction.

TRAVERSE

Cor.	Course	Dist.	N	S	E	W
1-2	N. 82° 32' E.	12.84	1.67			12.73
2-3	S. 22° 32' E.	10.60		9.79		4.06
3-4	N. 76° 46' W.	9.13	2.09			8.89
4-5	N. 35° 00' W.	3.97	3.25			2.28
5-1	N. 63° 56' W.	6.27	2.76			5.63
		42.81	9.77	9.79	16.79	16.80
Error in Lat. and Dep.				9.77		16.79
				.02		.01

Closing error, 1:1915.

Survey completed March 8, 1916.

*Walter J. Turley*  
 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. 405, STATE OF ARIZONA, B. L. Rogers, Tonto

CORNERS.	BEARING.	DISTANCE.	LATITUDES.		DEPARTURES.		DOUBLE M. D.	N. AREAS.	S. AREAS.
			NORTH.	SOUTH.	EAST.	WEST.			
1-2	N. 82° 32' E.	12.84	1 67 ✓	9 79 ✓	12 73 ✓	4 06 ✓	12 74 ✓	21 40 ✓	
2-3	S. 22° 32' E.	10.60					29 54		289 10
3-4	N. 76° 46' W.	9.13	2 09 ✓		8 89 ✓		24 71 ✓	51 64 ✓	
4-5	N. 35° 00' W.	3.97	3 25 ✓		2 28 ✓		13 54 ✓	44 01 ✓	
5-1	N. 63° 56' W.	6.27	2 76 ✓		5 63 ✓		5 63 ✓	15 54 ✓	
		42.81	9 77	9 79	16 79			132 59	289 10
			9 78	9 78	16 80	16 80		132 59	156 51
								7 83	Acres.
	Closing error, 1:1915								

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EMH



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.

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TABLING AND CALCULATIONS OF HOMESTEAD ENTRY SURVEY NO. 405, STATE OF ARIZONA.

CORNERS.	BEARING.	DISTANCE.	LATITUDES.		DEPARTURES.		DOUBLE M. D.	N. AREAS.	S. AREAS.
			NORTH.	SOUTH.	EAST.	WEST.			
5-2	N. 58° 05' E.	8.37	4 43 ✓	Listed Area.	7 10 ✓	7 10 ✓	7 10	31 45 ✓	178 68 ✓
2-3	S. 22° 32' E.	10.60	2 09 ✓	9 79 ✓	4 06 ✓	18 27	13 45	28 25 ✓	
3-4	N. 76° 46' W.	9.13	3 25 ✓		8 89 ✓	2 28 ✓	7 41 ✓		
4-5	N. 35° 00' W.	32.07	9 77	9 79	11 16	11 17	67 11	178 68	
			9 78	9 78	11 17	11 17		67 11	
								111 57	
								5 58	Acres.
	Closing error, 1:2268.								

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APPROVAL

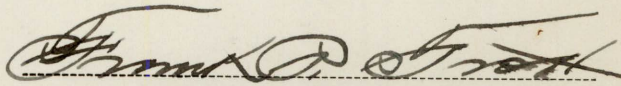
Office of the United States Surveyor General,

Phoenix, Arizona, June 19 , 1917.

The foregoing field notes of Homestead Entry Survey No.

405

executed by **Walter G. Turley, Surveyor-Forest Service** [Forest Service Title.]  
under his special instructions, dated **September 23** , 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.