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U. S. DEPARTMENT OF AGRICULTURE  
FOREST SERVICE

MAN. 1-1918

403

**FIELD NOTES**

OF

HOMESTEAD ENTRY SURVEY NO. 403

SITUATED IN THE TONTO NATIONAL FOREST

ADMINISTRATIVE DISTRICT NO. 3

In Section 14 , unsurveyed, Township 3 N. , Range 13 E.

In Section 23 , unsurveyed, Township 3 N. , Range 13 E.

of the

Gila and Salt River Base & Meridian.

State of

ARIZONA

Applicant for listing Henry R. Tarr ✓

Residence Kirby, Arizona.

Application No. 302 ✓ , dated September 25 , 1911 ✓

List No. 3-1880 ✓ , dated April 25 , 1912 ✓

Applicant for survey Frank D. Thomas, ✓

Residence Kirby, Arizona

H. E. No. 023172 ✓ , dated August 22 , 1913 ✓

Office  
Land District Phoenix, Arizona

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

Under special instructions dated September 23 , 1915 and ✓

Amended special instructions dated December 2 , 1915 ✓

Survey commenced February 28 , 1916

Survey completed February 29 , 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. 403, 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.

Charles G. Beechey, Chairman  
Fred D. Lewis, Chairman  
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Subscribed and sworn to before me this twenty eighth day of  
March, 1916.

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 Sept. 23, 1915 and amend-  
ed special instr's. dated Dec. 2, 1915, 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 Patent, No. 3-1880 ✓, dated April 25, 1912 ✓, for  
June 11, 1906, the same to be known as Homestead Entry Survey No. 403,  
situated within the TONTO National Forest, in  
unsurveyed Section 14, Township 3 N., Range 13 E., and  
unsurveyed Section 23, Township 3 N., Range 13 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.

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

Subscribed and sworn to before me this 8th day of  
April, 1916

Glenn C. Meyer  
Notary Public



8-2349

TONTONATIONAL FOREST

STATE OF ARIZONA

Chains

Applicant for listing, Henry R. Tarr; Application No. 302, dated September 25, 1911; List No. 3-1880, dated April 25, 1912; Homestead Entry No. 023172, made in the Phoenix Land Office on August 22, 1913 by Frank D. Thomas, whose post office address is Kirby, Arizona. 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 amended special instructions dated December 2, 1915, and designated as Homestead Entry Survey No. 403. Situated in what will probably be, when surveyed, secs. 14 and 23, T. 3 N., R. 13 E., Gila and Salt River Base and Meridian, within the Tonto National Forest, Arizona.

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Survey commenced February 28, 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 of which reads to degrees.

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TONTO NATIONAL FOREST

STATE OF ARIZONA

Chains

February 28, 1916.  
 I set-up my transit over cor. H-5 of List 3-1880, which is a quartzite stone 6 x 4 x 4 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. 50m. a.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.  $33^{\circ} 35' 44''$  N. and Long.  $110^{\circ} 59' 47''$  W., from special instructions from the Surveyor General.

Astron. l.m.t. obsn., Feb. 27, 1916, 18h. 50.0m.

Astron. l.m.t. U.C. Pol., Feb. 27, 1916, 3h. 03.2m.

Hour angle Pol. at obsn., 15h. 46.8m.

23h. 56.1m.

Time argument, 8h. 09.3m.

Azimuth Pol. at obsn.,  $1^{\circ} 08' 30''$  E.

With my transit set up over cor. H-5 of List 3-1880, heretofore described, and with telescope reversed in altitude and azimuth, at 7h. 02m. a.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., Feb. 27, 1916, 19h. 02.0m.

Astron. l.m.t. U.C. Pol., Feb. 27, 1916, 3h. 03.2m.

Hour angle Pol. at obsn., 15h. 58.8m.

23h. 56.1m.

Time argument, 7h. 57.3m.

Azimuth of Pol. at obsn.,  $1^{\circ} 10' 42''$  E.

February 28, 1916.

I turn off  $1^{\circ} 08-1/2'$ , the azimuth of Polaris, to the W.

TONTONATIONAL FOREST

STATE OF ARIZONA

Chains

from its direction at 6h. 50m. a.m., l.m.t., February 28, 1916; and mark the line thus determined with a tack in a stake set firmly in the ground 5.00 chs. N. of my station.

I also turn off 1° 10-1/2', the azimuth of Polaris, to the W. from its direction at 7h. 02m. a.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° 00' 42" 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.

Latitude 33° 35' 24" N., and Longitude 111° 00' 05" W., at cor. No. 1, by account from values stated in the special instructions of the Surveyor General. It was not possible to check the latitude by direct observation during the execution of this survey owing to cloudy weather.

My watch is set for standard 105th. meridian time, from which I subtract 24m. 00s. for l.m.t.

Observed magnetic declination at cor. No. 1, H. E. S. 403, at 8h. 00m. a.m., 14° 50' E. Mean magnetic declination, 14° 49' E.

Chains	RETRACEMENT
	Thence East.
	On a random line from the 1/4 sec. cor. to secs. 2 and 35, Ts. 3 and 4 N., R. 13 E., which is a quartzite stone 7 x 5 x 5 ins. above ground, chiseled 1/4 on N. face, with mound of stone, 2 ft. base, 1-1/2 ft. high N. of cor., from which:
	A 5 in. mesquite bears N. 68° 43' E., 323 lks., blazed, but I could not detect scribing.
	A 7 in. mesquite stump bears S. 70° 55' E., 307 lks. This stump has been cut a few inches above ground and no blaze could be detected.
	This corner was established in 1881, and all evidence found in this vicinity substantiates the fact that this is the location of the original corner.
40.00	No cor. found. Well defined and old property lines intersect at this point.
80.00	No cor. found. Well defined property lines run North from this point.
120.00	No cor. found. A cedar post, 4 ins. dia. and 4 ft. above ground, stands at this point. The property lines intersect at this point. Thence South.
	On a random line between T. 3 N., Rs. 13 and 14 E.
40.00	Point falls in Salt River.
80.00	Point falls in an arroyo near the Reclamation Service power canal. No evidence of cor. found.
120.00	Point falls upon small bottom between two arroyos. No evidence of cor. found.
160.00	Point falls upon steep NW. slope. No evidence of cor.

TONTON NATIONAL FOREST  
STATE OF ARIZONA

Chains found.  
200.00 Point falls in an arroyo near a juniper tree. No evidence of cor. found.  
240.00 Point falls at foot of steep N. mesa slope, near arroyo. No evidence of cor. found.

February 28, 1916.

February 29, 1916.

Having made a diligent search for a cor. of the Public land survey within two miles of the claim, (including the cor. mentioned in Amended Special Instructions dated December 2, 1915) and neither finding a corner nor any evidence that would lead to the discovery of one, I tie this survey to U.S.L.M. No. 147 H.E.S., located upon a high point approximately 7.00 chs. East of Spring Creek, which is an imbedded porphyry stone 48 x 36 x 15 ins. above ground, chiseled + at the point and U. S L M No. 147 H E S on E. face, with a mound of stone, 6 ft. base, 4 ft. high W. of cor., from which:

A 4 in. palo verde bears N. 64° 00' E., 200 lks. blazed and scribed U S L M No 147 H E S + B T.

East Peak of Baker Mountain bears N. 21° 30' E.

Haystack Butte bears N. 65° 24' E.

Mazatzal Peak bears N. 34° 00' W.

Reclamation Service office building at intake of power canal, bears N. 58° 20' E.

SE. cor. George Henderson's dwelling bears S. 55° 45' W.

Thence N. 69° 17' E.

On a true line for a tie.

70.72 To cor. No. 1.

I chisel + at the point and 1 - H E S 403 upon an

Chains	<p>embedded diorite stone 28 x 24 x 30 ins. above ground, and raise a mound of stone 2 ft. base, 1-1/2 ft. high S. of cor., from which:</p> <p>A 10 in. catclaw bears N. 89° 06' E., 146 lks., blazed and scribed 1 H E S 403 + B T.</p> <p>A 5 in. catclaw bears N. 37° 30' E., 183 lks. blazed and scribed 1 H E S 403 + B T.</p> <p>U. S. L. M. No. 147 H. E. S., heretofore described, bears S. 69° 17' W., 70.72 chs. dist.</p> <p>Cor. H-3 of List 3-1880 which is an embedded trachite stone 30 x 20 x 48 ins. above ground, marked and witnessed as described by the Forest Service, bears S. 16° 58' E., 6.33 chs. from cor. No. 1 of this survey. I destroy cor. H-3 and its witnesses.</p> <p>Thence N. 16° 58' W.</p> <p>Descend brushy E. slope 10 ft.</p> <p>19.10 Ravine, course SE. Asc. SW. slope 40 ft.</p> <p>26.10 Ridge bears E. and W. Desc. NW. slope, 40 ft.</p> <p>34.10 Ravine, course NE. Asc. SE. slope 30 ft.</p> <p>36.45 Edge of mesa, bears E. and W. Continue over mesa.</p> <p>53.90 Wagon road bears E. and W.</p> <p>57.43 To cor. No. 2.</p> <p>Identical with cor. H-2 of List 3-1880, which is a quartzite stone 9 x 7 x 5 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 18 ins. in the ground; over which I set</p>
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TONTON NATIONAL FOREST

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Chains a diorite stone 28 x 14 x 14 ins., 18 ins. in the ground,  
chiseled (+) at the point and 2 - H E S 403 on SE.  
face; and raise a mound of stone 2 ft. base, 1-1/2 ft.  
high, SE. of cor., from which:

A 5 in. mesquit bears S. 89° 42' E., 83 lks.,  
blazed and scribed 2 H E S 403 + B T.

A 4 in. mesquit, bears N. 30° 15' W., 66 lks.,  
blazed and scribed 2 H E S 403 + B T.

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Thence N. 81° 08' E.  
Desc. brushy E. slope, 40 ft.

6.60 Wagon road bears NE. and SW.

20.05 Left bank Pinto Creek, bed 2 ft. high, course N.  
Continue over creek.

29.96 Right bank Pinto Creek, bed 2 ft. high, course N.  
Continue over brushy bottom.

30.16 Wire fence bears N. and S.

35.84 To cor. No. 3.

Identical with cor. H-1 of List 3-1880, which is a  
granite stone 18 x 12 x 6 ins. above ground, marked  
and witnessed as described by the Forest Service. I  
destroy cor. H-1 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 17 ins. in the ground; over which I set  
a granite stone 27 x 10 x 8 ins., 17 ins. in the ground;  
chiseled (+) at the point and 3 - H E S 403 on the SW.  
face; and raise a mound of stone 2 ft. base, 1-1/2 ft.  
high SW. of cor., from which:

A 9 in. mesquit bears S. 88° 03' W., 130 lks.,  
blazed and scribed 3 H E S 403 + B T.

Chains  
 on an embedded diorite stone 26 x 18 x 6 ins.  
 above ground, bears S. 40° 08' E., 21 lks.,  
 chiseled + B R 3 H E S 403

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Thence S. 30° 46' E.  
 Over bottom in undergrowth.

3.48 Wire fence bears NE. and SW.  
 5.78 Wire fence bears NW. and SE. Leave bottom, bears E.  
 and W. Asc. N. slope, 10 ft.

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6.85 Wire fence bears NE. and SW.  
 8.33 To cor. No. 4.

Identical with cor. H-5 of List 3-1880, which is a  
 quartzite stone 6 x 4 x 4 ins. above ground, marked  
 and witnessed as described by the Forest Service. I  
 destroy cor. H-5 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 17 ins. in the ground; over which  
 I set a diorite stone 27 x 12 x 10 ins., 17 ins. in  
 the ground; chiseled (+) at the point and 4 - H E S 403  
 on the SW. face; and raise a mound of stone 2 ft. base,  
 1-1/2 ft. high SW. of cor., from which:

A 10 in. mesquit bears N. 71° 37' W., 109 lks.,  
 blazed and scribed 4 H E S 403 + B T.

A 7 in. mesquit bears S. 45° 55' W., 254 lks.,  
 blazed and scribed 4 H E S 403 + B T.

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Thence S. 2° 22' W.  
 Desc. open S. slope, 5 ft.

1.60 Brush fence bears E. and W.  
 1.70 Arroyo, 60 lks. wide, banks 5 ft. high, course W.

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STATE OF ARIZONA

Chains	Asc. N. slope, 40 ft.
9.50	Top of mesa bears E. and W. Continue over mesa.
13.85	Edge of mesa bears NNW. and SSE. Desc. SW. slope of mesa, 30 ft.
20.30	Wire fence bears SSE. and NNW. Foot of slope bears NNW. and SSE. Continue over bottom.
28.42	Arroyo, 30 lks. wide, banks 2 ft. high, course W.
32.56	Wire fence bears NE. and SW. Leave bottom, bears NE. and SW. Asc. NW. slope 30 ft.
34.95	Top of mesa bears NE. and SW. Continue over mesa.
37.07	To cor. No. 5.
	Identical with cor. H-4 of List 3-1880, which is a quartzite stone 16 x 6 x 8 ins. above ground, marked and witnessed as described by the Forest Service. I destroy cor. H-4 and its witnesses; and, for cor. No. 5 of this survey, I chisel (+) on a stone 4 x 4 x 2 ins., and deposit it 16 ins. in the ground; over which I set a diorite stone 26 x 12 x 5 ins., 16 ins. in the ground; chiseled (+) at the point and 5 - H E S 403 on the WNW. face; and raise a mound of stone 2 ft. base, 1-1/2 ft. high; WNW. of cor., from which:  A 4 in. mesquit bears N. 26° 58' W., 80 lks., blazed and scribed 5 H E S 403 + B T.  + on an embedded granite stone 36 x 24 x 14 ins., above ground, bears S. 75° 25' W., 77 lks., chiseled + B R 5 H E S 403.
	Thence S. 52° 47' W.  Over brushy mesa.
12.50	Edge of mesa bears N. and S. Desc. W. slope 40 ft.
14.24	Right bank of Pinto Creek, banks 2 ft. high, course NW.
23.14	Left bank of Pinto Creek, Asc. NE. slope 15 ft.
26.86	To cor. No. 1, the place of beginning.

10.

TONTO NATIONAL FOREST

STATE OF ARIZONA

Chains

AREA

Total Area - - - - - 159.80 acres.

DESCRIPTION

This claim is situated on Pinto Creek, a tributary to Salt River, and is chiefly valuable for general farming and stock raising.

There is no timber in this section.

Sufficient water for all purposes flows in Pinto Creek, or is pumped from the well.

The bottom soil is a sandy loam, and produces the ordinary crops of the temperate zone with irrigation.

Good crops of barley hay are raised without irrigation.

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

Kirby post office is 3/4 mile in a Northerly direction.

Globe railway station is 24 miles by wagon road in a Southeasterly direction.

There are no conylicts or adjoining claims.

H E S No. 70 lies about 1/2 mile North,

H E S No. 443 is about 1/4 mile NW. and

H E S No. 147 is about 1 mile SW. of this survey.

IMPROVEMENTS

A frame stone building, 25 x 16 ft., the long side extending E. and W. and the SE. cor. of which bears N. 38° 40' W., 2.51 chs. from cor. No. 4 of this survey.

Estimated Value ----- \$200.00

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A frame garage, 16 x 14 ft., the long side extending N. and S. and the SE. cor. of which bears N. 50° 55' W., 3.08 chs. from cor. No. 4 of this survey.

Estimated value ----- \$150.00

A frame chicken house, 14 x 12 ft., the long side of which extends E. and W. and the SE. cor. of which bears N. 40° 30' W., 3.35 chs. from cor. No. 4 of this survey.

Estimated value ----- \$ 75.00

A frame dwelling, 30 x 20 ft., the long side extending E. and W. and the SE. cor. of which bears N. 82° 00' W., 190 lks. from cor. No. 4 of this survey.

Estimated value ----- \$250.00

A well, 4 x 4 x 20 ft. deep, with pump, the center of which bears S. 78° 25' W., 5.40 chs. from cor. No. 4 of this survey.

Estimated value ----- \$ 50.00

A 2 H.P. gasoline engine, bears S. 77° 25' W., 5.38 chs. from cor. No. 4 of this survey.

Estimated value ----- \$ 75.00

A circular cement tank, 6 ft. dia. and 5 ft. high, the center of which bears S. 79° 20' W., 5.44 chs. from cor. No. 4 of this survey.

Estimated value ----- \$ 25.00

Approximately 1 mile of fencing.

Estimated value ----- \$100.00

Approximately 8 acres of cultivated land.

Note: A small area was eliminated along the south boundary of this claim in order that the survey would not exceed prescribed limit of 160 acres. The entryman was present and agreed to the change as made.

Chains	Cor.	Course	Dist.	TRAVERSE		
				N	S	E
1-2		N: 16° 58' W.	57.43	54.93		16.76
2-3		N: 81° 08' E.	35.84	5.52		35.41
3-4		S: 30° 46' E.	18.33		7.16	4.26
4-5		S: 2° 22' W.	37.07	37.04		1.53
5-1		S: 52° 47' W.	26.86	16.25		21.39
			165.53	60.45	60.45	39.67
				60.45		39.67
		Error in Lat. and Dep.		.00		.01

Closing error, 1:16553.

Survey completed February 29, 1916.

*Walter G. Tully*  
Surveyor - Forest Service

Note: The field notes for H E S 147 report said claim to be located in Sec. 29 and 32 T. 3 N., R. 13 E. unsurveyed. By a tie to the 1/4 cor. on the South bdy. of Sec. 35 T. 4 N., R. 13 E. made by me on March 2, 1916 to Cor. No. 5 H E S 443 in connection with H E S 443 which claim is also tied to U. S. L. M. 147 H E S the position of said U. S. L. M. No. 147 was determined to be in the SW/4 of Sec. 22. The correct location of H E S 147 is therefore in Secs. 22 and 27, T. 3 N., R. 13 E.

*Walter G. Tully*  
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 footing in red ink. 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. 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.  
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. 403, STATE OF ARIZONA, Tonto

CORNERS.	BEARING.	DISTANCE.	LATITUDES.		DEPARTURES.		DOUBLE M. D.	N. AREAS.	S. AREAS.
			NORTH.	SOUTH.	EAST.	WEST.			
1-2	N. 16° 58' W.	57.43	54.93		16	76	16 75	920 08	
2-3	N. 81° 08' E.	35.84	5.52		35	41	35 41	195 46	
3-4	S. 30° 46' E.	8.33		7 16	4	26	75 08	537 57	
4-5	S. 2° 22' W.	37.07		37 04	1	53	77 81	2882 08	
5-1	S. 52° 47' W.	26.86		16 25	21	39	54 89	891 96	
		165.53	60 45	60 45	39 67	39 68		1115 54	4311 61
			60 45	60 45	39 67	39 67		1115 54	1115 54
								3196 07	3196 07
								159 80	159 80 Acres.
	Closing error, 1:16553								

55

EMH

APPROVAL

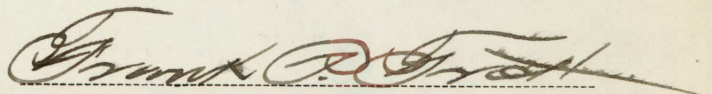
Office of the United States Surveyor General,

Phoenix, Arizona, June 19 , 1917.

The foregoing field notes of Homestead Entry Survey No.

403

executed by **Walter G. Turley, Surveyor-Forest Service**  
[Forest Service Title.]  
under his special instructions, dated **September 23, 1915** having  
and supplemental instructions dated **December 2, 1915**,  
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.