

U. S. DEPARTMENT OF AGRICULTURE

FOREST SERVICE

1915-1917
JUN 20 1917

407

FIELD NOTES

OF

HOMESTEAD ENTRY SURVEY NO. 407

SITUATED IN THE TONTO NATIONAL FOREST

ADMINISTRATIVE DISTRICT NO. 3

In Section 14 , unsurveyed, Township 6 N. , Range 13 E.

In Section 15 , unsurveyed, Township 6 N. , Range 13 E.

of the

Gila and Salt River Base & Meridian.

State of

ARIZONA

Applicant for listing Jas. E. McGee, ✓

Residence Kirby, Arizona

Application No. 166 ✓ , dated March 25 , 1909 ✓

List No. 3-1152 ✓ , dated February 20 , 1911 ✓

Applicant for survey Joseph Hall,

Residence Kirby, Arizona

H. E. No. 018955 ✓ , dated August 17 , 1912 ✓

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 9 , 1916

Survey completed March 10 , 1916

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

166

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. 407, 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
Frederic D. Lewis, Chairman

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
September 23, 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, No. **3-1152**, dated **February 20**, 1911, for
Patent, under the Act of **June 11**, 1906,
the same to be known as Homestead Entry Survey No. **407**,
situated within the **TONTO** National Forest, in
unsurveyed Section **14**, Township **6 N.**, Range **13 E.**, and
unsurveyed Section **15**, Township **6 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.

E. Eric C. Meyer
Notary Public



8-2349

TONTONATIONAL FOREST

STATE OF ARIZONA

Chains Applicant for listing Jas. E. McGee; Application No. 166, dated March 25, 1909; List No. 3-1152, dated February 20, 1911; Homestead Entry No. 018955, made in the Phoenix Land Office on August 17, 1912 by Joseph Hall, 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 designated as Homestead Entry Survey No. 407.

Situated in what will probably be, when surveyed, secs. 14 and 15, T. 6 N., R. 13 E., Gila and Salt River Base and Meridian, within the Tonto National Forest, Arizona.

Survey commenced March 9, 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.

March 9, 1916.

I set up my transit over cor. H-3 of List 3-1152, which is a basalt stone 12 x 4 x 4 ins. above ground, marked and witnessed as described by the Forest Service; and,

Chains with telescope direct, I observe Polaris in accordance with instructions at 7h. 00m. 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. $33^{\circ} 51' 19''$ N. and Long. $110^{\circ} 59' 38''$ W., from special instructions from the Surveyor General.

Astron. l.m.t. obsn., March 8, 1916,	19h. 00.0m.
Astron. l.m.t. U.C. Pol., March 8, 1916,	<u>2h. 23.8m.</u>
Hour angle Pol. at obsn.,	16h. 36.2m. ✓ <u>23h. 56.1m.</u>
Time argument,	7h. 19.9m. ✓
Azimuth Pol. at obsn., $1^{\circ} 16' 36''$ E.	

With my transit set up over cor. H-3 of List 3-1152, heretofore described, and with telescope reversed in altitude and azimuth, at 7h. 12m. 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., March 8, 1916,	19h. 12.0m.
Astron. l.m.t. U.C. Pol., March 8, 1916,	<u>2h. 23.8m.</u>
Hour angle Pol. at obsn.,	16h. 48.2m. ✓ <u>23h. 56.1m.</u>
Time argument,	7h. 07.9m. ✓
Azimuth of Pol. at obsn., $1^{\circ} 18' 16''$ E.	

March 9, 1916.

I turn off $1^{\circ} 16' 1/2''$, the azimuth of Polaris, to the W. from its direction at 7h. 00m. a.m., l.m.t., March 9, 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 $1^{\circ} 18'$, the azimuth of Polaris, to

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Chains

the W. from its direction at 7h. 12m. 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 $0^{\circ} 00' 08''$ 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 $33^{\circ} 51' 19''$ N. and Longitude $110^{\circ} 59' 38''$ 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.

Observed mag. decl. at cor. No. 1 at 8h. 00m. a.m., $15^{\circ} 47' E.$ Mean mag. decl. $15^{\circ} 44' E.$

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 upon 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:

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

Chains

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 de-
scribed by the Surveyor General, bears
N. 13° 46' 16" E., 297.34 chs., by traverse,
details of which are hereto attached.

BOUNDARIES OF CLAIM

March 10, 1916.

Beginning at cor. No. 1.

Identical with cor. H-3 of List 3-1152, which is a
basalt stone 12 x 4 x 3 ins. above ground, marked and
witnessed as described by the Forest Service. I de-
stroy cor. H-3 and its witnesses; and, for cor. No. 1
of this survey I chisel (+) on a stone 4 x 4 x 3 ins.,

and deposit it 16 ins. in the ground, over which I set
a diabase stone 26 x 14 x 5 ins., 16 ins. in the ground,
chiseled (+) at the point and 1 - H E S 407 on the N.
face; and raise a mound of stone 2 ft. base, 1-1/2 ft.
high N. of cor., from which:

A 10 in. pine bears S. 79° 20' E., 22 lks.,
blazed and scribed 1 H E S 407 + B T.

A 36 in. pine bears S. 39° 45' W., 67 lks.,
blazed and scribed 1 H E S 407 + B T.

U. S. L. M. No. 148, heretofore described,
bears S. 51° 52' 02" E., 83.03 chs., by

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Chains traverse, details of which are hereto attached.

Thence N. 15° 35' W.

Desc. brushy NE. slope 30 ft.

30.12 Pole fence bears NW. and SE. Leave slope and enter bottom, bears NW. and SE.

34.86 To cor. No. 2.
Identical with cor. H-4 of List 3-1152, which is a quartzite stone 15 x 4 x 5 ins. above ground, marked and witnessed as described by the Forest Service. I destroy cor. H-4 and its witnesses; and, for cor. No. 2 of this survey, I chisel (+) on a stone 4 x 4 x 3 ins., and deposit it 18 ins. in the ground; over which I set a granite stone 28 x 10 x 7 ins., 18 ins. in the ground, chiseled (+) at the point and 2 - H E S 407 on the NE. face; and raise a mound of stone 2 ft. base, 1-1/2 ft. high, NE. of cor., from which:

A 7 in. black oak, bears S. 37° 50' W., 42 lks., blazed and scribed 2 H E S 407 + B T.

A 16 in. white oak bears S. 18° 30' E., 67 lks., blazed and scribed 2 H E S 407 + B T.

Thence N. 50° 17' W.

Over brushy bottom.

3.30 Pole fence bears NNW. and SSE. Leave bottom and asc. rolling NE. slope 20 ft. in timber.

29.81 To cor. No. 3.
Identical with cor. H-5 of List 3-1152, 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. 3

Chains 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 granite stone 25 x 11 x 6 ins., 15 ins. in the ground, chiseled (+) at the point and 3 - H E S 407 on the E. face; and raise a mound of stone 2 ft. base, 1-1/2 ft. high, E. of cor., from which:

A 26 in. pine bears N. 52° 00' E., 61 lks., blazed and scribed 3 H E S 407 + B T.

A 9 in. alligator juniper, bears S. 48° 15' W., 38 lks., blazed and scribed 3 H E S 407 + B T.

Thence N. 35° 41' E.

Desc. timbered NE. slope 30 ft.

7.83 Left bank Workman Creek, 60 lks. wide, banks 2 ft. high, course NW. Asc. brushy SW. slope 15 ft.

9.77 To cor. No. 4.

Identical with cor. H-6 of List 3-1152, which is a granite stone 8 x 5 x 6 ins. above ground, marked and witnessed as described by the Forest Service. I destroy cor. H-6 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 16 ins. in the ground, over which I set

a granite stone 26 x 18 x 5 ins., 16 ins. in the ground, chiseled (+) at the point and 4 - H E S 407 on the S. face; and raise a mound of stone, 2 ft. base, 1-1/2 ft. high, S. of cor., from which:

A 16 in. pine bears N. 57° 55' W., 46 lks., blazed and scribed 4 H E S 407 + B T.

A 5 in. black oak bears N. 14° 45' W., 38 lks., blazed and scribed 4 H E S 407 + B T.

Thence S. 59° 15' E.

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Chains	Asc. brushy SW. slope 5 ft.
1.70	Cease ascending and desc. S. slope 10 ft.
5.65	Cease descending and asc. SW. slope 10 ft.
19.70	Cor. H-7 of List No. 3-1152, which is a quartzite stone 6 x 5 x 4 ins. above ground, marked and witnessed as described by the Forest Service. I destroy cor. H-7 and its witnesses.
23.28	To cor. No. 5. At which point I chisel (+) on a stone 4 x 4 x 3 ins., and deposit it 14 ins. in the ground, over which I set a diorite stone 24 x 11 x 5 ins., 15 ins. in the ground, chiseled (+) at the point and 5 - H E S 407 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. pine bears N. 49° 10' E., 37 lks., blazed and scribed 5 H E S 407 + B T. A 26 in. pine bears N. 52° 00' W., 41 lks., blazed and scribed 5 H E S 407 + B T.
	Thence S. 17° 30' E.
	Asc. brushy NW. slope 5 ft.
0.75	Ridge bears NE. and SW. Desc. SE. slope 10 ft.
3.50	Spring branch 2 lks. wide, banks 1 ft. high, course SW.
	Asc. rolling SW. slope 25 ft.
3.82	Cor. H-1 of List 3-1152, which is a basalt stone 6 x 2 x 6 ins. above ground, marked and witnessed as described by the Forest Service. I destroy cor. H-1 and its witnesses.
7.82	Pole fence bears NW. and SE.
32.16	Pole fence bears N. and S.
43.18	To cor. No. 6. Identical with cor. H-2 of List 3-1152, which is a

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quartzite stone 14 x 4 x 3 ins. above ground, marked and witnessed as described by the Forest Service. I destroy cor. H-2 and its witnesses; and, for cor. No. 6 of this survey, I chisel (+) on a stone 4 x 4 x 3 ins., and deposit it 16 ins. in the ground, over which I set a diorite stone 26 x 12 x 7 ins., 16 ins. in the ground, chiseled (+) at the point and 6 - H E S 407 on the W. face; and raise a mound of stone 2 ft. base, 1-1/2 ft. high, W. of cor., from which:

A 4 in. black oak, bears N. 87° 30' E., 5 lks., blazed and scribed 6 H E S 407 + B T.

A 10 in. white oak bears S. 66° 15' W., 37 lks., blazed and scribed 6 H E S 407 + B T.

Thence S. 40° 07' W.

Desc. brushy SW. slope 25 ft.

5.02 Road bears NW. and SE.

5.64 Right bank Workman Creek, 50 lks. wide, banks 2 ft. high,

course NW. Asc. NW. slope 25 ft.

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

AREA

Total Area - - - - - 60.94 acres

IMPROVEMENTS

A stone and log chicken house, 33 x 10 ft., the long side extending NE. and SW. and the N. cor. of which bears S. 13° 00' E., 4.50 chs. from cor. No. 5 of this survey.

Estimated value ----- \$ 75.00

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Chains	<p>A log cellar 16 x 12 ft., the long side extending N. and S. and the NE. cor. of which bears South, 3.90 chs. from cor. No. 5 of this survey.</p> <p>Estimated value ----- \$ 50.00</p> <p>A log dwelling house 16 x 16 ft., the sides extending E. and W., and the NE. cor. of which bears S. 10° 05' W., 4.42 chs. from cor. No. 5 of this survey.</p> <p>Estimated value ----- \$250.00</p> <p>A log and frame store house 30 x 12 ft., the long side extending N. and S. and the E. cor. of which bears S. 12° 15' W., 5.01 chs. from cor. No. 5 of this survey.</p> <p>Estimated value ----- \$175.00</p> <p>A frame barn, 24 x 24 ft., the sides extending E. and W. and the NE. cor. of which bears S. 34° 20' W., 5.02 chs. from cor. No. 5 of this survey.</p> <p>Estimated value ----- \$150.00</p> <p>A frame pig sty, 22 x 18 ft., the long side extending E. and W. and the NE. cor. of which bears S. 60° 30' W., 4.10 chs. from cor. No. 5 of this survey.</p> <p>Estimated value ----- \$ 75.00</p> <p>Approximately 2 miles of pole fencing.</p> <p>Estimated value ----- \$250.00</p> <p>Approximately 20 acres of cultivated land.</p>
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DESCRIPTION

This claim is situated on Workman Creek and is valuable for general farming and stock raising.

This section is timbered and a small amount of timber is included in this survey.

The soil is a sandy loam and produces the ordinary crops of the temperate zone. Hay and vegetables have been

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produced.

Sufficient water for all purposes flows in Workman Creek.

This section is not reported to be mineralized and no

townsites, coal, oil or mining claims are known to have

been located in conflict herewith.

There are no conflicts or adjoining claims.

Kirby post office is 28 miles in a Southwesterly direc-

tion. Globe railway station is 54 miles in a South-

westerly direction by trail and wagon road.

TRAVERSE

Cor.	Course	Dist.	N	S	E	W	
1-2	N. 15° 35' W.	34.86	33.58			9.36	
2-3	N. 50° 17' W.	29.81	19.05			22.93	
3-4	N. 35° 41' E.	9.77	7.94		5.70		
4-5	S. 59° 15' E.	23.28		11.90	20.01		
5-6	S. 17° 30' E.	43.18		41.18	12.98		
6-1	S. 40° 07' W.	9.84		7.52		6.34	
			<u>150.74</u>	<u>60.57</u>	<u>60.60</u>	<u>38.69</u>	<u>38.63</u>
Error in Lat. and Dep.				<u>.03</u>	<u>.06</u>		

Closing error 1:2247.

Survey completed March 10, 1916.

Walter P. 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. 407, STATE OF Arizona, Tonto

CORNERS.	BEARING.	DISTANCE.	LATITUDES.		DEPARTURES.		DOUBLE M. D.	N. AREAS.	S. AREAS.
			NORTH.	SOUTH.	EAST.	WEST.			
1-2	N. 15° 35' W.	34.86	33 58 ⁹			9 36 ⁷	55 25	1855 85	
2-3	N. 50° 17' W.	29.81	12 05 ⁶			22 93 ⁴	22 94	437 24	
3-4	N. 35° 41' E.	9.77	7 94		5 70		5 70	45 26	
4-5	S. 59° 15' E.	23.28		11 90	20 01 ⁰		31 40		373 66
5-6	S. 17° 30' E.	43.18		41 18 ⁷	12 98 ⁶		64 36		2649 70
6-1	S. 40° 07' W.	9.84		7 52		6 34 ⁵	70 97		533 69
		150.74	60 57	60 60	38 69	38 63		2338 35	3557 05
			60 59	60 59	38 66	38 66			2338 35
									1218 70
									60 94 Acres.
	Closing error, 1:2247								

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ENTH

DIRECTIONS.—1. Carry out calculations to two decimals only.

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TABLING AND CALCULATIONS OF HOMESTEAD ENTRY SURVEY NO. 407, STATE OF Arizona, Tonto.

CORNERS.	BEARING.	DISTANCE.	LATITUDES.		DEPARTURES.		DOUBLE M. D.	N. AREAS.	S. AREAS.
			NORTH.	SOUTH.	EAST.	WEST.			
	Traverse from U. S. L. M. No. 148, H. E. S. to cor. No. 1.								
	N. 79° 45' W.	30.86	5 49			30 37			
	N. 37° 21' W.	57.59	45 78			34 94			
	S. 51° 52' 02" E.	83.03	51 27	0 00	0 00	65 31			
			51 27	51 27	65 31	65 31			
	Tie from cor. Ts. 6 and 7 N., Rs. 13 and 14 E. to U. S. L. M. No. 148 H. E. S.								
	S. 15° 48' W.	53.68	51 65			14 62			
	S. 15° 53' W.	79.60	76 56			21 78			
	S. 43° 42' W.	93.25	67 42			64 42			
	N. 85° 45' W.	41.31	3 06			41 20			
	N. 10° 40' W.	3.82	3 75			0 71			
	S. 17° 30' E.	43.18	41 18	12 98					
	S. 40° 07' W.	9.84	7 52			6 34			
	S. 37° 21' E.	57.59	45 78	34 94					
	S. 79° 45' E.	30.86	5 49	30 37					
			6 81	295 60	78 29	149 07			
	N. 13° 46' 16" E.	297.34	288 79	70 78					
			295 60	295 60	149 07	149 07			

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APPROVAL

Office of the United States Surveyor General,

Phoenix, Arizona JUL 19 1917 , 191

The foregoing field notes of Homestead Entry Survey No.

407

executed by *Walter J. Lurley, Surveyor* [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.

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.