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U. S. DEPARTMENT OF AGRICULTURE

FOREST SERVICE

MAR. 2- 1917

JUN. 20. 1917

412

FIELD NOTES

OF

HOMESTEAD ENTRY SURVEY NO. 412

SITUATED IN THE **TONTO** NATIONAL FOREST

ADMINISTRATIVE DISTRICT NO. **3**

In Section 19 , unsurveyed, Township 2 N., Range 12 E.
 In Section 20 , unsurveyed, Township 2 N., Range 12 E.
 In Section 29 , --surveyed, Township 2 N., Range 12 E.
 In Section 30 , --surveyed, Township 2 N., Range 12 E.

of the

Gila and Salt River Base and Meridian.

State of

ARIZONA

Applicant for listing **J. J. Fraser,** ✓
 Residence **Florence, Arizona**
 Application No. **147** ✓ , dated **April 12** , 1908 ✓
 List No. **3-937** ✓ , dated **March 13** , 1911 ✓

Applicant for survey **William G. Knight,** ✓
 Residence **Florence, Arizona**
 H. E. No. **016311** ✓ , dated **January 29** , 1912 ✓
 Office **Phoenix, Arizona**
 Land ~~District~~

Survey executed by **Walter G. Turley,** Surveyor - Forest Service
[Forest Service Title.]
 Under special instructions dated **September 23** , 1915, and
Supplemental special instructions dated **October 2** , 1915 ✓
 Survey commenced **February 8** , 1916
 Survey completed **February 10** , 1916
 Under Acts of **June 11, 1906 and March 4, 1915** ✓

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. **412**, 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 inconvenient to appear before an officer to administer oaths to Assistants; hence, they were taken by the Surveyor.

Charles H. Baecher, Chairman
Ferry 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 instructions of the United States Surveyor General for **Arizona, dated Sept. 23, 1915 and suppl. spec. instrs. dated Oct. 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 , No. **3-937** , dated **March 13** , 1911 , for
Patent , under the Act of **June 11** , 1906 ,
the same to be known as Homestead Entry Survey No. **412** ,
situated within the **TONTO** National Forest, in
unsurveyed Section 19 , Township **2 N.** , Range **12 E.** , and
unsurveyed Section 20 , Township **2 N.** , Range **12 E., and** ,
--surveyed Section 29 , Township **2 N.** , Range **12 E., and**
--surveyed Section 30 , Township **2 N.** , Range **12 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

Ursie C. Myers
Treasurer Public



TONGO NATIONAL FOREST

STATE OF ARIZONA

Chains Applicant for listing J. J. Fraser; Application No. 147, dated April 12, 1908; List No. 3-937, dated March 13, 1911; Homestead Entry No. 016311, made in the Phoenix Land Office on January 29, 1912 by William G. Knight, whose post office address is Florence, 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 supplemental instructions dated October 2, 1915, and designated as Homestead Entry Survey No. 412.

Situated in what will probably be, when surveyed, secs. 19 and 20, and in surveyed and accepted secs. 29 and 30; T. 2 N., R. 12 E., Gila and Salt River Base and Meridian, within the Tonto National Forest, Arizona.

Survey commenced February 8, 1916 and executed with a W. and J. 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.

Chains. February 8, 1916.

I set up my transit over cor. to secs. 19, 20, 29 and 30, hereinafter described, and with telescope direct, I observe Polaris in accordance with instructions at 6h. 45m. 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° 29' 32" N. and Long. 111° 09' 41" W., from special instructions from the Surveyor General.

Astron. l.m.t. obsn., February 8, 1916, 6h. 45.0m.

Astron. l.m.t. U.C. Pol., Feb. 8, 1916, 4h. 18.2m.

Hour angle Pol. at obsn., 2h. 26.8m.

Azimuth Pol. at obsn., 0° 49' 44" W.

With my transit set up over cor. to secs. 19, 20, 29 and 30, hereinafter described, and with telescope reversed in altitude and azimuth, at 6h. 57m. 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., February 8, 1916, 6h. 57.0m.

Astron. l.m.t. U.C. Pol., Feb. 8, 1916, 4h. 18.2m.

Hour angle Pol. at obsn., 2h. 38.8m.

Azimuth of Pol. at obsn., 0° 53' 30" W.

February 9, 1916.

I turn off 0° 50', the azimuth of Polaris, to the E. from its direction at 6h. 45m. p.m., l.m.t., February 8, 1916; and mark the line thus determined with a tack in a stake set firmly in the ground 5.00 chs. N. of my

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Chains

station.

I also turn off $0^{\circ} 53\frac{1}{2}'$, the azimuth of Polaris, to the E. from its direction at 6h. 57m. 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 $0^{\circ} 00' 36''$ 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 $33^{\circ} 29' 32''$ N. and Longitude $111^{\circ} 09' 43''$ W.,

at cor. No. 1 H. E. S. 412, by account from the special instructions of the Surveyor General. It was not practicable 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 24m. 39s. for l.m.t.

Observed magnetic declination at cor. No. 1, February 9, 1916 at 8h. 00m. a.m., $14^{\circ} 15'$ E., which gives a mean magnetic declination of $14^{\circ} 14'$ E.

RETRACEMENT

Thence South.

On a random line from cor. to secs. 19, 20, 29 and 30, which is a granite stone 8 x 6 x 4 ins. above ground, chiseled with 2 notches on the S. edge and 5 notches on the E. edge, from which:

A 24 in. walnut bears N. $8^{\circ} 15'$ E., 479 lks., blazed and scribed T. 2 N R 12 E S 20 B T.

Chains	A 10 in. juniper bears S. 76° 00' E., 463 lks., blazed and scribed T 2 N R 12 E S 29 B T.
	A 15 in. walnut bears S. 62° 30' W., 133 lks., blazed and scribed T 2 N R 12 E S 30 B T.
	A 9 in. black oak bears N. 76° 45' W., 184 lks., blazed and scribed T 2 N R 12 E S 19 B T.
40.21	I fall 31 lks. W. of the 1/4 sec. cor. to secs. 29 and 30, which is a granite stone 7 x 5 x 5 ins. above ground, marked and witnessed as described by the Sur- veyor General. Thence N. 0° 27' W. On a true line.
18.20	Set temporary point.
40.21	Cor. to secs. 19, 20, 29 and 30, heretofore described. Thence West. On a random line from cor. to secs. 19, 20, 29 and 30, heretofore described.
39.94	I fall 8 lks. N. of the 1/4 sec. cor. to secs. 19 and 30, which is a granite stone 8 x 6 x 6 ins. above ground, marked and witnessed as described by the Surveyor Gen- eral. Thence N. 89° 53' E. On a true line.
37.81	Set temporary point.
39.94	Cor. to secs. 19, 20, 29 and 30, heretofore described. Thence East. On a random line from cor. to secs. 19, 20, 29 and 30, heretofore described.
39.85	I fall 15 lks. N. of the 1/4 sec. cor. to secs. 20 and 29, which is an embedded granite boulder 30 x 30 x 24 ins. above ground, marked and witnessed as described by

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Chains the Surveyor General.
 Thence N. 89° 47' W.
 On a true line.
 33.63 Set temporary point.
 39.85 Cor. to secs. 19, 20, 29 and 30, heretofore described.

Thence N. 89° 28' E.
 On a true line from cor. R-3 of Executive Withdrawal for Reeves Creek Ranger Station, also cor. H-2 of List No. 3-937, which is a basalt stone 14 x 3 x 10 ins. above ground, chiseled R-3 on the NE. face and H-2 on the SE. face, and witnessed for cor. H-2 as described by the Forest Service.
 8.93 Cor. R-4 of Executive Withdrawal for Reeves Creek Ranger Station, also cor. H-1 List No. 3-937, which is a basalt stone 12 x 4 x 7 ins. above ground, chiseled R-4 on the NW. face and H-1 on the SW. face, and witnessed for cor. H-1 as described by the Forest Service.
 February 9, 1916.

BOUNDARIES OF CLAIM

February 10, 1916.
 Beginning at cor. No. 1, and C. C. on line between secs. 19 and 30.
 I chisel (+) on a stone 4 x 4 x 3 ins. and deposit it 15 ins. in the ground, over which I set a quartzite stone 25 x 10 x 6 ins., 15 ins. in the ground; chiseled (+) at the point, C C on the N. face and 1 - H E S 412 on the E. face; and raise a mound of stone 2 ft. base, 1-1/2 ft. high N. of cor., from which:
 A 24 in. wlanut bears S. 44° 35' E., 82 lks., blazed and scribed 1 H E S 412 + B.T.

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Chains	<p>A 9 in. white oak bears N. 1° 00' E., 41 lks., blazed and scribed 1 H E S 412 + B T.</p> <p>Cor. to secs. 19, 20, 29 and 30, heretofore described bears N. 89° 53' E., 2.13 chs. 1/4 cor. to secs. 19 and 30, heretofore described, bears S. 89° 53' W., 37.81 chs.</p> <hr/> <p>Thence N. 6° 00' W. Desc. 10 ft. along foot of brushy E. slope. 28.23 To cor. No. 2.</p> <p>On line R-3 to R-4 of Executive Withdrawal for Reeves Creek Ranger Station. I chisel (+) on a stone 4 x 3 x 2 ins. and deposit it 16 ins. in the ground, over which I set a sandstone 26 x 10 x 9 ins., 16 ins. in the ground; chiseled (+) at the point and 2 - H E S 412 on the SE. face; and raise a mound of stone 2 ft. base, 1-1/2 ft. high, SE. of cor., from which: A 28 in. walnut bears N. 26° 20' W., 53 lks., blazed and scribed 2 H E S 412 + B T.</p> <hr/> <p>A 10 in. white oak bears N. 26° 20' E., 45 lks., blazed and scribed 2 H E S 412 + B T.</p> <p>Cor. H-2 of List 3-937 and R-3 of Reeves Creek Ranger Station, heretofore described, bears S. 89° 28' W., 25 lks. I destroy cor. H-2 and its witnesses.</p> <hr/> <p>Thence N. 89° 28' E. Along S. bdy. Reeves Creek Ranger Station. brushy E. slope 5 ft.</p> <p>2.08 Reeves Creek, 140 lks. wide, banks 3 ft. high, course N. Asc. brushy W. slope 10 ft.</p>
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Chains
4.00 Road bears N. and S.
8.68 To cor. No. 3.
Identical with cor. H-1 of List No. 3-937 and R-4 of Reeves Creek Ranger Station, which is a basalt stone 12 x 4 x 6 ins. above ground, marked and witnessed as heretofore described. 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 14 ins. in the ground, over which I set a basalt stone 24 x 12 x 5 ins., 14 ins. in the ground, chiseled (+) at the point and 3 - H E S 412 on the SW. face; and raise a mound of stone 2 ft. base, 1-1/2 ft. high, SW. of cor., from which;
A 6 in. black oak bears West, 45 lks., blazed and scribed 3 H E S 412 + B T.
A 5 in. black oak bears S. 1° 20' E., 24 lks., blazed and scribed 3 H E S 412 + B T.
I destroy the F. S. M. to which the survey of List No. 3-937 is tied, which is a basalt stone 13 x 8 x 8 ins. above ground, and mound of stones, and bears S. 80° 30' E., 2.90 chs. from cor. No. 3 of this survey.

Thence S. 5° 15' E.
Asc. brushy W. slope 15 ft.
12.30 Ridge bears NE. and SW. Desc. SW. slope 10 ft.
21.60 Arroyo, 20 lks. wide, banks 3 ft. high, course W.
Asc. NW. slope 10 ft.
24.76 Pole fence bears E. and W.
28.34 To cor. No. 4, and C. C. on line between secs. 20 and 29.

Chains I chisel (+) on a stone 4 x 3 x 2 ins., and deposit it 16 ins. in the ground; over which I set a sandstone 26 x 10 x 4 ins., 16 ins. in the ground; chiseled (+) at the point, C C on the N. face and 4 - H E S 412 on the W. face and raise a mound of stone 2 ft. base, 1-1/2 ft. high, N. of cor.; from which:

- A 4 in. black oak bears S. 14° 20' E., 9 lks., blazed and scribed 4 H E S 412 + B T.

A 6 in. black oak bears S. 68° 28' W., 59 lks., blazed and scribed 4 H E S 412 + B T.

(Cor. to secs. 19, 20, 29 and 30, heretofore described, bears N. 89° 47' W., 6.22 chs. 1/4 cor. to secs. 20 and 29, heretofore described, bears S. 89° 47' E., 33.63 chs.

Thence S. 5° 15' E.

Desc: brushy W. slope, 10 ft.

16.98 To cor. No. 5.

Identical with cor. H-6 of List 3-937, which is a sandstone 6 x 6 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. 5 of this survey, I chisel (+) on a stone 4 x 3 x 2 ins., and deposit it 16 ins. in the ground, over which I set a sandstone 26 x 10 x 5 ins., 16 ins. in the ground; chiseled (+) at the point and 5 - H E S 412 on the W. face; and raise a mound of stone 2 ft. base, 1-1/2 ft. high, W. of cor., from which:

A 20 in. pine bears S. 40° 00' E., 39 lks., blazed and scribed 5 H E S 412 + B T.

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Chains

A 20 in. pine bears S. 32° 10' W., 57 lks.,
blazed and scribed 5 H E S 412 + B T.

Thence S. 13° 38' E.

Asc. brushy NW. slope 25 ft.

7.20 Spur bears E. and W. Desc. SW. slope 20 ft.

15.70 Arroyo, 10 lks. wide, banks 4 ft. high, course W.

Asc. brushy bottom 5 ft.

25.20 Arroyo, 15 lks. wide, banks 4 ft. high, course WNW.

Asc. brushy NW. slope 10 ft.

27.10 Spur bears SE. and NW. Desc. SW. slope 5 ft.

34.37 Fence, bears E. and W.

34.97 To cor. No. 6.

Identical with cor. H-5 of List 3-937, which is a sandstone 14 x 5 x 8 ins. above ground, marked and witnessed as described by the Forest Service. I destroy cor. H-5 and its witnesses; and, for cor. No. 6 of this survey, I chisel (+) on a stone 4 x 3 x 2 ins., and deposit it 16 ins. in the ground; over which I set a sandstone 26 x 14 x 5 ins., 16 ins. in the ground, chiseled (+) at the point and 6 - H E S 412 on the NW. face and raise a mound of stone 2 ft. base, 1-1/2 ft. high NW. of cor., from which:

A 17 in. black oak bears N. 31° 40' E., 83 lks.,
blazed and scribed 6 H E S 412 + B T.

A 16 in. white oak bears S. 21° 15' E., 47 lks.,
blazed and scribed 6 H E S 412 + B T.

Thence N. 77° 12' W.

Desc. W. slope 10 ft.

0.08 Pole fence bears NNW. and SSE. Enter corral.

Chains	
0.15	Wagon road bears NNW. and SSE.
1.65	Pole fence bears NNW. and SSE. Leave corral.
1.70	Right bank Reeves Creek, 5 ft. high, course NNW., 80 lks. wide.
2.82	Left bank Reeves Creek, 5 ft. high, course NNW. Continue over brushy bottom.
5.08	Pole fence bears NW. and SE. Foot of slope bears NW. and SE. Asc. NE. slope 5 ft.
5.60	To cor. No. 7. I chisel (+) on a stone 4 x 3 x 3 ins., and deposit it 14 ins. in the ground; over which I set a sandstone 24 x 11 x 7 ins., 14 ins. in the ground; chiseled (+) at the point and 7 - H E S 412 on the NE. face; and raise a mound of stone 2 ft. base, 1-1/2 ft. high, NE. of cor., from which: A 4 in. black oak bears N. 12° 14' E., 61 lks., blazed and scribed 7 H E S 412 + B T. A 17 in. black oak bears N. 70° 50' E., 95 lks., blazed and scribed 7 H E S 412 + B T.
	Thence N. 39° 17' W. Along foot of brushy NE. slope.
0.85	Pole fence bears NW. and SE. Enter field.
4.31	Pole fence bears NNW. and SSE. Leave field.
7.70	To cor. No. 8. I chisel (+) on a stone 4 x 4 x 3 ins., and deposit it 19 ins. in the ground, over which I set a sandstone 29 x 14 x 8 ins., 19 ins. in the ground; chiseled (+) at the point and 8 - H E S 412 on the NE. face; and raise a mound of stone 2 ft. base, 1-1/2 ft. high, NE. of cor., from which:

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Chains

A 24 in. white oak bears N. 0° 45' E., 116 lks.,
blazed and scribed 8 H E S 412 + B T.

A 60 in. alligator juniper bears S. 82° 10' E.,
77 lks., blazed and scribed 8 H E S 412 + B T.

Cor. H-4 of List 3-937, a sandstone 8 x 8 x 10 ins.
above ground, marked and witnessed as described
by the Forest Service, bears S. 14° 20' E., 7.37

chs. I destroy all trace of this list cor.

Thence N. 14° 20' W.

Asc. brushy SE. slope 15 ft.

7.60 Spur bears NE. and SW. Desc. N. slope 10 ft.

8.03 Pole fence bears NNW. and SSE.

18.15 Ravine, course NE. Asc. SE. slope 10 ft.

19.81 Wire fence bears N. and S.

22.42 To cor. No. 9 and C. C. on line between secs. 29 and 30.

I chisel (+) on a stone 4 x 3 x 2 ins. and deposit it
26 ins. in the ground, over which I set a sandstone 36
x 15 x 3 ins., 26 ins. in the ground, chiseled (+) at
the point, C C on the SSE: face and 9 - H E S 412 on
the E. face; and raise a mound of stone 2 ft. base,
1-1/2 ft. high SSE. of cor., from which:

A 4 in. black oak bears N. 35° 00' E., 77 lks.,

blazed and scribed 9 H E S 412 + B T.

A 15 in. juniper bears S. 67° 00' W., 23 lks.,

blazed and scribed 9 H E S 412 + B T.

Cor. H-3 of List 3-937, a sandstone 8 x 3 x 7 ins.

above ground, marked and witnessed as described
by the Forest Service, bears N. 14° 20' W., 5.33

chs. I destroy all trace of this list cor.

Cor. secs. 29 and 30, heretofore described,

bears N. 0° 27' W., 22.01 chs.

1/4 cor. bet. secs. 29 and 30, heretofore de-

HOMESTEAD ENTRY SURVEY NO. 412

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STATE OF ARIZONA

Chains

scribed, bears S. 0° 27' E., 18.20 chs.

Thence N. 6° 00' W.

Desc. brushy NE. slope 20 ft.

0.30 Pole fence bears NW., and SE.

3.50 Ravine, course E. Asc. SE., slope 15 ft.

3.98 Fence bears NE. and SW.

6.30 Ridge bears E. and W. Desc. brushy NE. slope 20 ft.

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

AREA

Area in Sec. 29 - - - - - 39.29 acres

Area in Sec. 30 - - - - - 2.34 acres

Area in Secs. 19 and 20, unsurveyed - - - - 23.99 acres

Total Area - - - - - 65.62 acres

IMPROVEMENTS

A reservoir embankment, 9 ft. high and 120 ft. long, extending N. and S. and the S. end of which bears N. 48° 00' E., 1.90 chs. from cor. No. 9 of this survey, empounding approximately 1/3 acre feet of water.

Estimated Value ----- \$ 75.00

A log dwelling 38 x 32 ft., the long side extending N. and S. and the SW. cor. of which bears N. 25° 30' E., 4.40 chs. from cor. No. 9.

Estimated Value ----- \$900.00

A frame store house 24 x 12 ft., the long side extending N. and S. and the SW. cor. of which bears N. 29° 00' E., 7.00 chs. from cor. No. 9.

Estimated Value ----- \$ 75.00

A log stable 40 x 30 ft., the long side extending E. and W. and the SW. cor. of which bears N. 20° 10' E., 7.35 chs. from cor. No. 9.

Estimated Value ----- \$200.00

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A frame stable 40 x 40 ft., the long side extending E. and W. and the SW. cor. of which bears N. 5° 20' E., 9.00 chs. from cor. No. 9.

Estimated Value ----- \$100.00

Approximately 2 miles of fencing.

Estimated Value ----- \$300.00

Approximately 16 acres of cultivated land.

DESCRIPTION

This claim is situated on Reeves Creek, a tributary to Salt River, at an elevation of approximately 5000 ft., and is chiefly valuable for general farming, fruit raising and cattle.

Pinon, cedar, sycamore and walnut trees are found this area.

Sufficient water for all purposes is obtained from Reeves Creek.

The soil is a dark sandy loam and produces the ordinary crops of the temperate zone.

This section is not known to be mineralized and no town-sites, coal, oil or mining claims are known to conflict herewith.

Florence post office and railway station is 24 miles by trail in a Southwesterly direction.

There are no conflicts. The Reeves Creek Ranger Station adjoins this claim on the North.

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STATE OF ARIZONA

Chains

TRAVERSE

Section 29.

Cor.	Course	Dist.	N	S	E	W
+4	S. 89° 47' E.	6.22		0.02	6.22	
4-5	S. 5° 15' E.	16.98		16.91	1.55	
5-6	S. 13° 38' E.	34.97		33.98	8.24	
6-7	N. 77° 12' W.	5.60	1.24			5.46
7-8	N. 39° 17' W.	7.70	5.96			4.88
8-9	N. 14° 20' W.	22.42	21.72			5.55
9-+	N. 0° 27' W.	22.01	22.01			0.17
		115.90	50.93	50.91	16.01	16.06
			50.91			16.01
Error in Lat. and Dep.			.02			.05

Closing error, 1:2152.

Section 30.

Cor.	Course	Dist.	N	S	E	W
+9	S. 0° 27' E.	22.01		22.01	0.17	
9-1	N. 6° 00' W.	22.11	21.99			2.31
1-+	N. 89° 53' E.	2.13			2.13	
		46.25	21.99	22.01	2.30	2.31
				21.99		2.30
Error in Lat. and Dep.			.02			.01

Closing error, 1:2068.

Unsurveyed Sections 19 and 20.

Cor.	Course	Dist.	N	S	E	W
+1	S. 89° 53' W.	2.13				2.13
1-2	N. 6° 00' W.	28.23	28.08			2.95
2-3	N. 89° 28' E.	8.68	0.08		8.68	
3-4	S. 5° 15' E.	28.34		28.22	2.59	
4-+	N. 89° 47' W.	6.22	0.02			6.22
		73.60	28.18	28.22	11.27	11.30
				28.18		11.27
Error in Lat. and Dep.			.04			.03

Closing error, 1:1472.

Survey completed February 10, 1916.

Walter G. 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.

3. In calculations of bearings 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. 412, STATE OF Arizona, W. G. Knight, Tonto.

CORNERS.	BEARING.	DISTANCE.	LATITUDES.		DEPARTURES.		DOUBLE M. D.	N. AREAS.	S. AREAS.
			North.	South.	East.	West.			
Sec. 29. - 4	S. 89° 47' E.	6.22		0 02	6 22		6 22	0 12	
4-5	S. 5° 15' E.	16.98		16 91	1 55		14 00	236 74	
5-6	S. 13° 38' E.	34.97		33 98	8 24		23 82	809 64	
6-7	N. 77° 12' W.	5.60	1 24			5 46	26 62		33 01
7-8	N. 39° 17' W.	7.70	5 96			4 88	16 28		97 03
8-9	N. 14° 20' W.	22.42	21 72			5 55	5 86		127 22
9-	N. 0° 27' W.	22.01	22 01			0 17	0 16		3 52
		115.90	50 93	50 91	16 01	16 06		260 78	1046 50
			50 92	50 92	16 04	16 04		260 78	260 78
	Closing error, 1:2152.							785 72	
								39 29	Acres.
Sec. 30. - 9	S. 0° 27' E.	22.01		22 00	0 17		4 43	97 46	
9-1	N. 6° 00' W.	22.11	21 99	22 01		2 31	2 30		50 60
1-	N. 89° 53' E.	2.13			2 13		2 13		
		46.25	21 99	22 01	2 30	2 31		50 60	97 46
			22 00	22 00	2 30	2 30		50 60	50 60
	Closing error, 1:2068							46 86	
								2 34	

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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.

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. 412, STATE OF Arizona, W. G. Knight, Tonto.

CORNERS.	BEARING.	DISTANCE.	LATITUDES.		DEPARTURES.		DOUBLE M. D.	N. AREAS.	S. AREAS.
			NORTH.	SOUTH.	EAST.	WEST.			
-1	S. 89° 53' W.	2.13				2 13	8 01		
1-2	N. 6° 00' W.	28.23	28 08			2 95	2 94	82 61	
2-3	N. 89° 28' E.	8.68	0 08		8 68		8 69	0 70	
3-4	S. 5° 15' E.	28.34		28 22	2 59		19 98	563 44	
4-	N. 89° 47' W.	6.22	0 02			6 22	16 36	0 33	
		73.60	28 18	28 22	11 27	11 30		83 64	563 44
			28 20	28 20	11 29	11 29			83 64
	Closing error, 1:1472								479 80
									23 99 Acres

33

ENTH

DIRECTIONS.—1. Carry out calculations to two decimals only.
 2. In balancing Latitudes and Departures do not obliterate or change 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. 412, STATE OF ARIZONA.

CORNERS.	BEARING.	DISTANCE.	LATITUDES.		DEPARTURES.		DOUBLE M. D.	N. AREAS.	S. AREAS.
			NORTH.	SOUTH.	EAST.	WEST.			
1-2	N. 6° 00' W.	28.23	28 08 ✓			2 25 ✓			
2-3	N. 89° 28' E.	8.68	08 ✓		8 68 ✓				
3-4	S. 5° 15' E.	28.34		28 22 ✓	2 60 ✓				
4-5	S. 5° 15' E.	16.98		16 91 ✓	1 55 ✓				
5-6	S. 13° 38' E.	34.97		33 98 ✓	8 24 ✓				
6-7	N. 77° 12' W.	5.60	1 24 ✓			5 46 ✓			
7-8	N. 39° 17' W.	7.70	5 96 ✓			4 88 ✓			
8-9	N. 14° 20' W.	22.42	21 72 ✓			5 55 ✓			
9-1	N. 6° 00' W.	22.11	21 99 ✓			2 31 ✓			
		175.03	79 07	79 11	21 07	21 15			
	Error in Lat. and Dept.		04		08				
	Closing error, 1:1957.								

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EMH

APPROVAL

Office of the United States Surveyor General,

Phoenix, Arizona JUL 19 1917 , 191

The foregoing field notes of Homestead Entry Survey No.

412

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