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U. S. DEPARTMENT OF AGRICULTURE
FOREST SERVICE

FIELD NOTES

OF

HOMESTEAD ENTRY SURVEY NO. 102

SITUATED IN THE

CROOK NATIONAL FOREST

ADMINISTRATIVE DISTRICT NO. 3

in

Section 1, unsurveyed, Township 1 S., Range 15 E.

of the

Gila and Salt River Base and Meridian.

ARIZONA

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

Under special instructions dated October 30, 1913

Survey commenced December 15, 1913

Survey completed December 15, 1913

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

Applicant for listing A. F. Williams.

Residence Globe, Arizona.

Application No. 109 dated June 20, 1909

Application No. 215, dated August 30, 1912

List No. 3-244 dated August 7, 1909

List No. 3-2327, dated March 3, 1913

Applicant for survey A. F. Williams

Residence Globe, Arizona.

H. E. No. 07830 dated January 29, 1910

H. E. No. 023355, dated September 15, 1913.

Land district Phoenix, Arizona.

Accepted S. L. O. "E" Feb. 29, 1916

OATH OF ASSISTANTS

We hereby certify that we assisted Walter G. Turley,
Forest Service Surveyor in surveying all those
parts or portions of Homestead Entry Survey No. 102, in
unsurveyed Section 1, Township 1 S., Range 15 E.,
unsurveyed Section - - -, Township - - -, Range - - -,

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.

Benjamin F. Nabours, Chairman
John B. Wight, Chairman

Subscribed and sworn to before me this 30th day of
December, 1913.

Walter G. Turley
Forest Service Surveyor

OATH OF SURVEYOR

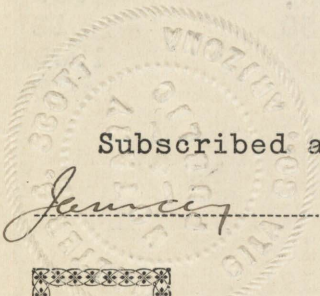
I, Walter G. Turley, Forest Service Surveyor, do solemnly swear
that, in strict conformity with the special instructions of
the United States Surveyor General for Arizona, dated
October 30, 1913, and the laws of the United States, I have
well, faithfully, and truly, in my own proper person, sur-
veyed a tract of land ~~upon the application of~~ embraced in List
No. 3-244 and, No. 3-2327 dated August 7, 1909 and March 3, 1913,
for PATENT, under the Act of June 11, 1906,
the same to be known as Homestead Entry Survey No. 102,
situated within the CROOK National Forest, in
unsurveyed Section 1, Township 1 S., Range 15 E., and
unsurveyed Section - - -, Township - - -, Range - - -,

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
Forest Service Surveyor

Subscribed and sworn to before me this 19th day of
January, 1914.

Walter G. Scott
Notary Public



My Commission expires July 1, 1917

CROOK NATIONAL FOREST

STATE OF ARIZONA

Chains Applicant for listing, A. F. Williams; Application Nos. 109 and 215, dated June 20, 1909 and August 30, 1912; List Nos. 3-244 and 3-2327, dated August 7, 1909 and March 3, 1913; H. E. Nos. 07830 and 023355, made at Phoenix, Arizona, by A. F. Williams, January 29, 1910 and September 15, 1913.

Surveyed under special instructions from the Surveyor General for Arizona, dated October 30, 1913, and designated as Homestead Entry Survey No. 102.

Situated in unsurveyed T. 1 S., R. 15 E., Gila and Salt River Base and Meridian, in what will probably be, when surveyed, Sec. 1, within the Crook National Forest, Arizona.

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

This survey was executed with a W. and L. E. Gurley light mountain transit, No. 12953, with vertical circle and Burt solar attachment. The horizontal limb having two double verniers placed opposite and reading to single minutes of arc, which is also the least graduation on the latitude and declination arcs.

The instrument was tested and all necessary adjustments made to the levels, line of collimation, solar attachment and stadia interval. The stadia is adjusted to read 1:132 and all measurements were made on the slope, and reduced to the horizontal, with a 400 link steel tape and a Philadelphia stadia rod, graduated to feet and hundredths, with target verniers reading to thousandths.

Chains December 14, 1913: I observe Polaris in accordance with instructions at 5h. 30m., p.m., l.m.t., at the cor. marked H-4 and H-1 of List Nos. 3-244 and 3-2327, A. F. Williams, and mark the line thus determined by driving a tack in a stake set firmly in the ground 4.00 chs. N. of my station.

Astron. l.m.t., obsn., Dec. 13, 1913, 29h. 30.0m.
 Astron. l.m.t., U.C. Pol., Dec. 13, 1913, 8h. 1.3m.
 Hour angle Pol. at obsn. 21h. 28.7m.
 Hour angle Pol. from U.C. 23h. 56.1 m.
 Azimuth of Pol. at obsn. 0° 50' 02" E.

December 14, 1913.

Lat. 33° 21' 55" N., Long. 110° 43' 50" W.

December 15, 1913:

I observe Polaris in accordance with instructions at 6h. 30m., a.m., l.m.t., at the same station from which I made the Polaris observation on December 14, 1913.

Astron. l.m.t., of obsn., Dec. 14, 1913, 18h. 30.0m.
 Astron. l.m.t. U.C. Pol., Dec. 14, 1913, 7h. 57.4m.
 Hour angle Pol. at obsn. 10h. 32.6m.
 Azimuth of Pol. at obsn. 0° 29' 54" W.

I turn off 0° 30' to the E. and mark the line thus determined by a tack in a stake 4.00 chs. North of my station.

I also turn off 0° 50' to the W. of the line which I marked on December 14, 1913, by a tack in a stake 4.00 chs. north of my station and my line of sight differs 30" of arc from the line determined on December 15, 1913. I mark the mean of the two lines for the meridian.

TERRA CROOK NATIONAL FOREST

STATE OF ARIZONA

Chains

December 15, 1913:

At 8h. 00m. a.m., l.m.t., I set off 23° 13' S. on the decl. arc and 33° 22' on the lat. arc and determine a meridian with the solar at cor. H-4 and H-1 of this list survey. I sight north and my line of sight falls upon the meridian established by me from Polaris observations of December 14 and 15, 1913. Therefore I conclude that my transit is in satisfactory adjustment.

Preliminary to the survey of this claim, I proceed to cor. H-1 of the list survey and retrace its boundaries in a clockwise direction and calculate its area to be less than 160 acres.

December 15, 1913:

At 8h. 20m., a.m., l.m.t., I set off 23° 14' S. on the decl. arc and 33° 23' on the lat. arc and determine a meridian with the solar at the Standard Corner of Secs. 36 and 34, T. 1 N., Rs. 15 and 15-1/2 E., G. & S. R. B. and Meridian, which is a quartz stone 12 x 8 x 5 ins. above ground, marked and witnessed as described by the Surveyor General.

Thence S. 26° 38' E. on a true line
40.53 To cor. No. 1.

Identical with cor. H-2 of the list survey, which is a red sandstone 6 x 4 x 6 ins. above ground; also cor. H-2, H. E. No. 023562, T. J. Gibson; and cor. H-2 H. E. No. 020295, G. W. Graham, unsurveyed H. E. S. No. 162, marked and witnessed as described by the Forest Service. I destroy all trace of the list cor. which refers to this claim; and at this point I set a quartzite

Chains boulder 24 x 9 x 8 ins., 14 ins. in the ground over a small stone marked with a cross (+) for cor. No. 1 of this survey, marked 1-HES102 on the SE. face; and raise a mound of stone 2 ft. base, 1-1/2 ft. high, SE. of cor., from which:

A cross (+) on an imbedded quartzite boulder 60 x 48 x 15 ins. above ground bears S. 69° 00' W., 114 lks. dist., marked 1 H E S 102 B R.

No other bearings available. Pits impracticable.

At 9h. 00m. a.m., l.m.t., I observe the magnetic declination at cor. No. 1 to be 14° 34' E., which reduced by Table G, Manual 1894, Diurnal Variation in Magnetic Declination, gives a mean magnetic declination of 14° 32' E.

Lat. 33° 22' N., Long. 110° 44' W., as obtained from special instructions from the Surveyor General.

Thence S. 78° 56' E. on a true line.

Ascend 5 ft. along NW. slope to spur.

0.023 Fence, bears NE. and SW.

1.008 Spur, bears N. and S. Descend 30 ft. to bottom.

1.38 Enter adobe residence of George W. Graham at a point 1/2 ft. SW. of W. cor. and 35.5 ft. NW. of S. cor.

1.91 Leave house at a point 4 ft. SW. of E. cor. and 29 ft. NE. of S. cor.

3.50 Ranch road, bears N. and S.

7.36 Fence, bears E. and W.

8.97 Cor. H-3, H. E. No. 020295, George W. Graham, unsurveyed H. E. S. No. 162, a quartzite boulder 9 x 5 x 6 ins. above ground, marked and witnessed as described by the Forest Service, bears N. 5° 43' W., 5 lks. dist.

10.14 Fence corner, from which fence bears NE., NW. and S.

CROOK NATIONAL FOREST

STATE OF ARIZONA.

Chains	
10.24	Ranch road, bears N. and S.
17.36	Fence, bears NW. and SE.
17.52	Road, bears NW. and SE.
18.22	Pinal Creek, 85 lks. wide, banks 2 ft. high, course NW. Ascend SW. slope 30 ft. to cor.
20.87	To cor. No. 2. Identical with cor. H-3 of the list survey; also cor. H-3 of H. E. No. 09118; E. W. Hargett, unsurveyed H. E. S. No. 105, which is a gray granite stone 12 x 8 x 6 ins. above ground; marked and witnessed as described by the Forest Service. I destroy all trace of the list cor. which refers to this claim and at this point I set a quartzite boulder 24 x 15 x 6 ins. 14 ins. in the ground over a small stone marked with a cross (+) for cor. No. 2 of this survey, marked 2-HES102 on the SW. face; and raise a mound of stone 2 ft. base, 1-1/2 ft. high SW. of cor., from which: A cottonwood 30 ins. dia. bears S. 24° W. 130 lks. dist. marked 2 H E S 102 B T. Pits impracticable. No other bearings available.
	Thence S. 25° 58' W. On a true line between this claim and H. E. No. 09118, E. W. Hargett, unsurveyed H. E. S. No. 105. Descend SW. slope 25 ft. to creek bed.
1.50	Pinal Creek, 100 lks. wide, banks 2 ft. high, course N. Ascend 5 ft. to cor.
3.48	Road, bears N. and S.
3.80	Fence, bears NW. and SE. Continue in pasture.
7.78	Fence, bears NNE. and SSW.
7.78	To cor. No. 3. Identical with cors. No. H-4 and H-1 of the list survey

Chains

also cor. H-2 of H. E. 09118, E. W. Hargett, unsurveyed, H. E. S. No. 105, which is a reddish gray rock 12 x 12 x 8 ins. above ground, marked and witnessed as described by the Forest Service. I destroy all trace of the list cor. which refers to this claim; and at this point I set a granite boulder 30 x 10 x 10 ins. 20 ins. in the ground over a small stone marked with a cross (+) for cor. No. 3 of this survey, marked 3-HES102 on the W. face; and raise a mound of stone 2 ft. base, 1-1/2 ft. high W. of cor. The improvements are witnesses to this cor.

Pits impracticable. No other witnesses available.

Leave List 3-244 and continue along line of List 3-2327.

(+)

December 15, 1913:

At 11 h. 55 m. a.m., l.m.t., I set off 23° 16' S. on the decl. arc and observe the sun on the meridian at Cor. No. 3 of this survey and obtain a reading of 33° 22' on the lat. arc.

Thence S. 6° 53' E.

On a true line bet. this claim and H. E. No. 09118, E. W. Hargett, unsurveyed H. E. S. No. 105. Ascend 5 ft. to cor.

0.50 Road bears NE. and SW.

0.60 Fence cor., from which the fence bears E. of S., NW. and ENE.

8.15 To cor. No. 4.

Identical with H-2 of the list survey, which is a blue quartzite stone 10 x 8 x 12 ins. above ground, marked and witnessed as described by the Forest Service. I destroy all trace of this list cor. and at this point

CROOK NATIONAL FOREST

STATE OF ARIZONA

Chains

I set a quartzite boulder 26 x 9 x 5 ins. 16 ins. in the ground over a small stone marked with a cross (+) for cor. No. 4 of this survey, marked 4-HES102 on the NW. face; and raise a mound of stone 2 ft. base, 1-1/2 ft. high NW. of cor., from which:

A cross (+) on an imbedded quartzite boulder 36 x 20 x 8 ins. above ground bears S. 6° 00' E.

31 lks. dist. marked 4 H E S 102 B R.

Cor. H-1 of H. E. 09118, E. W. Hargett, unsurveyed H. E. S. No. 105, bears S. 6° 53' W. 12.68 chs. dist.

Pits impracticable. No other bearings available.

Thence S. 85° 53' W. on a true line over mesa.
Ascend 5 ft. to cor.

5.02 To cor. No. 5.

Identical with cor. H-3 of the list survey, which is a pink quartzite stone 14 x 10 x 6 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 quartzite boulder 24 x 18 x 5 ins. 14 ins. in the ground over a small stone marked with a cross (+) for cor. No. 5 of this survey, marked 5-HES102 on the NE. face and raise a mound of stone 2 ft. base, 1-1/2 ft. high NE. of cor., from which:

A mesquite 4 ins. dia. bears N. 55° 20' W.

128 lks. dist. marked 5 H E S 102 B T.

A mesquite stump 15 ins. dia. bears N. 74° 00' E.

94 lks. dist. marked 5 H E S 102 B T.

Pits impracticable.

Thence N. 41° 05' W. on a true line.
Ascend 10 ft. to cor. along E. slope.

Chains

2.75 Ranch road, bears E. and W.

6.41 To cor. No. 6.

Identical with cor. H-4 of the list survey, which is a quartzite stone 14 x 10 x 8 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 quartzite boulder 24 x 9 x 7 ins. 14 ins. in the ground over a small stone marked with a cross (+) for cor. No. 6 of this survey, marked 6-HES102 on the NE. face; and raise a mound of stone 2 ft. base, 1-1/2 ft. high NE. of cor., from which:

A catsclaw 4 ins. dia. bears N. 32° W. 48 lks.

dist. marked 6 H E S 102 B T.

No other bearings available. Pits impracticable.

Thence N. 67° 42' W. on a true line.

Descend 20 ft. to ravine along W. slope.

3.00 Fence, bears NE. and SW.

3.75 Ravine, course NE. Ascend 20 ft. to cor.

7.40 To cor. No. 7.

Identical with cor. H-5 of the list survey, which is a pink sandstone 10 x 14 x 8 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 quartzite boulder 24 x 9 x 9 ins. 14 ins. in the ground over a small stone marked with a cross (+) for cor. No. 7 of this survey, marked 7-HES102 on NE. face; and raise a mound of stone 2 ft. base, 1-1/2 ft. high NE. of cor., from which:

A cross (+) on an imbedded quartzite boulder

24 x 17 x 5 ins. above ground, marked 7 H E S

102 B R bears N. 21° 25' E. 79 lks. dist.

CROOK NATIONAL FOREST

STATE OF ARIZONA.

Chains No other bearings available. Pits impracticable.

- Thence N. 48° 20' W. on a true line over mesa.
- 2.50 Descend 20 ft. to ravine.
- 2.75 Private telephone line bears N. and S.
- 3.45 Ravine, course NE. Ascend 20 ft.
- 4.70 Out of Ravine, continue over mesa.
- 8.45 To cor. No. 8.

Identical with cor. H-6 and H-1, which is a red sandstone 12 x 4 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 quartzite boulder 28 x 10 x 10 ins. 18 ins. in the ground over a small stone marked with a cross (+) for cor. No. 8 of this survey, marked 8-HES102 on the E. face; and raise a mound of stone 2 ft. base, 1-1/2 ft. high-NE. of cor. from which:

A mesquite stump 4 ins. dia. bears S. 50° 30' E. 198 lks. dist. marked 8 H E S 102 B T.

Pits impracticable. No other bearings available. Leave List 3-2327 and continue along line of List 3-244.

- Thence N. 35° 10' E. on a true line.
- Descend N. slope 15 ft. to cor.
- 5.90 Private telephone bears N. and S.
- 7.49 To cor. No. 1 of this survey, the place of beginning.

Area of Homestead Entry Survey No. 102.

Total Area ----- 27.12 acres

Improvements.

The improvements made upon and for the benefit of this homestead and belonging to A. F. Williams, the claimant

PINAL CROOK NATIONAL FOREST

STATE OF ARIZONA.

Chains herein, consist of the following:

An adobe dwelling 48 x 60 ft. the long side of which bears N. and S. and the SE. cor. of which bears N. 42° 40' W. 6.40 chs. dist. from cor. No. 3 of this survey.

Value ----- \$1,000.00.

A frame garage 12 x 26 ft. the long side of which bears N. and S. and the SE. cor. of which bears N. 54° W. 6.80 chs. dist. from cor. No. 3 of this survey.

Value ----- \$ 50.00

A well and 3 H. P. gasoline engine the center of which bears N. 50° W. 5.95 chs. dist. from Cor. No. 3 of this survey.

Value ----- \$ 150.00

An adobe stable 14 x 30 ft. the long side of which bears N. and S. and the SE. cor. of which bears N. 56° 30' W. 1.32 chs. dist. from cor. No. 3 of this survey.

Value ----- \$ 50.00

GENERAL DESCRIPTION.

This homestead is situated on Pinal Creek at an elevation of approximately 3,625 feet and is chiefly valuable for intensive farming and pasture. The soil is a sandy loam; and I saw no indication of mineral on this claim.

Globe postoffice and Arizona Eastern Railway station are approximately 1-1/2 miles in a northerly direction.

Conflicts and Adjoining Claims.

This homestead entry is joined on the north by H. E. No. 020295, George W. Graham, unsurveyed H. E. S. No. 162; and on the east by H. E. No. 09118, E. W. Hargett, unsurveyed H. E. S. No. 105.

December 15, 1913.

TRIBUTARY CROOK NATIONAL FOREST

STATE OF ARIZONA.

Chains

TRAVERSE.

Bearing	Distance	N	S	E	W
S. 78° 56' E.	20.87		4.01	20.48	
S. 25° 58' W.	7.78		7.00		3.41
S. 6° 53' E.	8.15		8.09	.98	
S. 85° 53' W.	5.02		.36		5.01
N. 41° 05' W.	6.41	4.83			4.21
N. 67° 42' W.	7.40	2.81			6.85
N. 48° 20' W.	8.45	5.62			6.31
N. 35° 10' E.	7.49	6.12		4.31	
	<u>71.57</u>	<u>19.38</u>	<u>19.46</u>	<u>25.77</u>	<u>25.79</u>
			<u>19.38</u>		<u>25.77</u>
Error in Lat. and Dep.			.08		.02

Closing Error 1:858.

Walter G. Purley
 Forest Service Surveyor.

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 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. 102, STATE OF ARIZONA. A. F. Williams.

CORNERS.	BEARING.	DISTANCE.	LATITUDES.		DEPARTURES.		DOUBLE M. D.	N. AREAS.	S. AREAS.
			NORTH.	SOUTH.	EAST.	WEST.			
	S. 78° 56' E.	20.87		3.99 4.01	49 20.48		29.11	116.15	
	S. 25° 58' W.	7.78		6.99 7.00		3.41	46.19	322.87	
	S. 6° 53' E.	8.15		8.09	0.98		43.76	353.58	
	S. 85° 53' W.	5.02		0.36		5.01	39.73	14.30	
	N. 41° 05' W.	6.41	4	4.83		4.21	30.51		147.67
	N. 67° 42' W.	7.40	2	2.81		6.85	19.45		54.85
	N. 48° 20' W.	8.45	3	5.62		6.31	6.30		35.47
	N. 35° 10' E.	7.49	3	6.12		4.31	4.31		26.42
		71.57	19.38	19.46	25.77	25.79		264.41	806.90
			19.42	19.42	25.78	25.78			264.41
									2) 542.49
									27.12 = Area.
	Closing Error = 1:868								

T.F.
ET

APPROVAL

Office of the United States Surveyor General,
Phoenix, Arizona, March 20, 1915 .

The foregoing field notes of Homestead Entry Survey No.

102

executed by Walter G. Turley, Forest Service Surveyor
under his special instructions, dated October 30, 1913,
having been critically examined, and the necessary correc-
tions and explanations made, the said field notes, and the
surveys they describe, are hereby approved.

Frank S. Ingalls
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 S. Ingalls
U. S. Surveyor General.

