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Aug 3-1914

U. S. DEPARTMENT OF AGRICULTURE
FOREST SERVICE

FIELD NOTES

OF

HOMESTEAD ENTRY SURVEY NO. 112

SITUATED IN THE

CROOK NATIONAL FOREST

ADMINISTRATIVE DISTRICT NO. 3

in

Section 15, unsurveyed, Township 1 S., Range 15 E.
Section 16, unsurveyed, Township 1 S., Range 15 E.

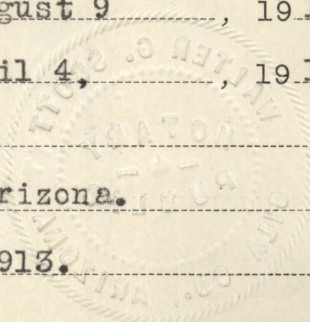
of the

Gila and Salt River Principal Meridian.

A R I Z O N A

Survey executed by Walter G. Turley, Forest Service Surveyor,
Under special instructions dated October 30, 1913
Survey commenced January 8, 1914
Survey completed January 8, 1914
Under Acts of June 11, 1906 and March 4, 1913.

Applicant for listing Frank Mark
Residence Globe, Arizona.
Application No. 193, dated August 9, 1911
List No. 3-1825, dated April 4, 1912
Applicant for survey Frank Mark
Residence Globe, Arizona.
H. E. No. 022075, dated April 9, 1913.
Land district Phoenix, Arizona.



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. 112, in
unsurveyed Sections 15&16, 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 expensive and incon-
venient to appear before
an officer to administer
the oaths to assistants;
hence, they were taken by
the Surveyor.

Benjamin F. Harbour Chainman
W. P. Johnson Chainman

Subscribed and sworn to before me this 2nd day of
February, 1914.

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. 3-1825, dated April 4, 1912, for
Patent, under the Act of June 11, 1906,
the same to be known as Homestead Entry Survey No. 112,
situated within the CROOK National Forest, in
unsurveyed Sections 15&16, 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 2nd day of
February, 1914.

Walter G. Scott
Notary Public



My commission expires July 1, 1917

CROOK NATIONAL FOREST

ARIZONA

Chains	<p>Applicant for listing, Frank Mark; Application No. 193, dated August 9, 1911; List No. 3-1825, dated April 4, 1912; H. E. No. 022075, made by Frank Mark at Phoenix, Arizona on April 9, 1913.</p>
	<p>Surveyed under special instructions from the Surveyor General for Arizona, dated October 30, 1913, and designated as Homestead Entry Survey No. 112.</p>
	<p>Situated in unsurveyed T. 1 S., R. 15 E., G. & S. R. B. and Meridian, in what will probably be, when surveyed, Secs 15 & 16 within the Crook National Forest, Arizona.</p> <p>Listed under the Act of June 11, 1906, and survey authorized by the Acts of June 11, 1906 and March 4, 1913.</p>
	<p>Survey commenced January 8, 1914, and 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 verniers of the latitude and declination arcs.</p> <p>The instrument was examined, tested, and all necessary adjustments made to the levels, line of collimation, stadia interval and solar attachment.</p> <p>The distances were measured on the slope, and reduced to the horizontal, with a 400 link steel tape and a Philadelphia stadia rod with double targets, the rod being graduated to read in feet and hundredths and target verniers to thousandths.</p>
	<p>January 7, 1914:</p> <p>I observe Polaris in accordance with instructions at 9 h. 00 m. p.m., l.m.t., at cor. H-5 of the List survey, which is a granite stone 12 x 6 x 12 ins. above ground, marked and witnessed as described by the Forest Service,</p>

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2.

HOMESTEAD ENTRY SURVEY NO. 112

CROOK NATIONAL FOREST

ARIZONA

Chains and mark the line thus determined by driving a tack in a stake set 6.00 chs. north of my station.

Astron l.m.t. obsn. Jan. 7, 1914 9 h 00 m

Astron. l.m.t. U. C. Pol. Jan. 7, 1914 6 h 22.7

Hour Angle Pol. at obsn. 2 37.3

Azimuth of Pol. at obsn. $0^{\circ} 53' W.$

January 8, 1914:

At 6 h. 05 m. a.m., l.m.t., I again observe Polaris in accordance with instructions at cor. H-5 of the List survey, heretofore described.

Astron l.m.t. obsn. Jan. 7, 1914 18 h. 05 m

Astron. l.m.t. U.C. Pol. Jan. 7, 1914 6 22.7

Hour Angle Pol. at obsn. 11 42.3

Azimuth of Pol. at obsn. $0^{\circ} 05' 36'' W.$

I turn off the azimuth $0^{\circ} 06'$ to the E. and mark the line thus determined with a tack in a stake set firmly in the ground 6.00 chs. north of my station.

I also turn off the azimuth $0^{\circ} 53'$ E. from the line determined by Polaris observation on January 7, and the meridian thus determined differs $0^{\circ} 00' 34''$ from the meridian determined by Polaris observation on January 8, 1914. I mark the mean of the two lines for the meridian, by a tack in a stake set firmly in the ground 6.00 chs. north of my station.

January 8, 1914:

At 8 h. 00 m. a.m., l.m.t., I set off $22^{\circ} 15'$ S. on the decl. arc and $33^{\circ} 21'$ on the lat. arc and determine a meridian with the solar at cor. H-5 of the List survey, heretofore described, and my line of sight falls upon the tack in the stake set 6.00 chs. north of my station. Therefore I conclude that my transit is in

CROCK NATIONAL FOREST

ARIZONA

Chains

satisfactory adjustment.

January 8, 1914:

At 8 h. 30 m. a.m., l.m.t., I set off 22° 16' S. on the decl. arc and 33° 21' on the lat. arc and determine a meridian with the solar at U. S. L. M. No. 110 H. E. S., which is a conglomerate stone 20 x 10 x 12 ins. above ground, marked and witnessed as described by me in the field notes of H. E. S. No. 110.

Thence S. 87° 50' W. on a true line.
 101.36 Cor. H-5 of the List, which is also cor. H-3, H. E. No. 022730, Peter Osterman, unsurveyed H. E. S. No. 128, heretofore described. Therefore U. S. L. M. No. 110 H. E. S. bears N. 87° 50' E. 1 mile 21.36 chs. dist. from cor. No. 1 of this survey.

I destroy all trace of this List cor. which refers to this claim, and at this point I set a granite stone 25 x 10 x 6 ins. 15 ins. in the ground, over a small stone marked with a cross (+) for cor. No. 1 of this survey, marked 1-HE S 112 on the W. face; and raise a mound of stone 2 ft. base, 1-1/2 ft. high W. of cor. from which,
 An oak 5 ins. dia. bears N. 87° 04' W. 89 lks. dist. marked 1 H E S 112 B T.
 An oak 4 ins. dia. bears N. 46° 28' W. 64 lks. dist. marked 1 H E S 112 B T

I observe the magnetic declination at cor. No. 1 of this survey to be 14° 06' E. at 9 h. 00 m. a.m., l.m.t., which reduced by Table G, Manual of 1894, Diurnal Variation in Magnetic Declination, gives a mean magnetic declination of 14° 04' E.
 Long. 110° 46' 37" W. as obtained from instructions from The Surveyor General.

Chains	Thence S. 37° 23' W. Ascend along NW. slope 50 ft. in undergrowth.	
0.20	Fence, bears N. 60° W. and S. 60° E.	
21.25	Fence, bears NW. and SE.	
42.44	To cor. No. 2.	
	<p>Identical with cor. H-4 of the List survey, which is a granite stone 10 x 4 x 10 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 schist stone 24 x 8 x 5 ins. 14 ins. in the ground, over a small stone marked with a cross (+) for cor. No. 2 of this survey, marked 2-HES112 on the N. face; and raise a mound of stone 2 ft. base, 1-1/2 ft. high N. of cor. from which,</p> <p>An oak 4 ins. dia. bears N. 55° 10' W. 59 lks. dist. marked 2 H E S 112 B T</p> <p>A juniper 6 ins. dia. bears N. 69° 50' E. 103 lks. dist. marked 2 H E S 112 B T</p>	
	Thence N. 26° 45' W.	
	Descend NW. slope 25 ft. to creek.	
5.75	Kelner Creek, 90 lks. wide, course N. Ascend SE. slope 25 ft. to cor.	
7.95	Road, bears N. and S.	
10.30	To cor. No. 3.	
	<p>Identical with cor. H-3 of the List survey, which is a granite stone in place 8 x 12 x 10 ins. above ground, marked and witnessed as described by the Forest Service.</p>	
	<p>I destroy all trace of this list cor. and mark a cross (+) at the apex of the same stone for cor. No. 3 of this survey and 3-HES112 on the E. face; and raise a mound of stone 2 ft. base, 1-1/2 ft. high E. of cor. from which,</p> <p>A holly 4 ins. dia. bears S. 37° 16' W. 105 lks.</p>	

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Chains	<p>dist. marked 3 H E S 112 B T</p> <p>No other bearings available. Pits impracticable.</p>
11.70	<p>Thence N. 43° 54' E.</p> <p>Descend 25 ft. to ravine.</p>
17.10	<p>Ravine, course SE. Ascend 10 ft. to cor.</p>
	<p>To cor. No. 4.</p> <p>Identical with cor. H-2 of the List survey, which is an imbedded granite boulder 6 x 5 x 4 ft. above ground, marked and witnessed as described by the Forest Service.</p> <p>I destroy all trace of this list cor. and mark a cross (+) on the apex of the same boulder for cor. No. 4 of this survey, and 4-HES112 on the SE. face; and raise a mound of stone 2 ft. base, 1-1/2 ft. high SE. of cor. from which,</p> <p>A cross (+) on an imbedded granite boulder 5 x 4 x 4 ft. above ground, marked 4 H E S 112 B R bears N. 4° 59' E. 12 lks. dist.</p> <p>No other bearings available. Pits impracticable.</p>
	<p>Note: The sun was obscured at apparent noon, therefore a latitude observation was not possible.</p>
0.25	<p>Thence N. 36° 00' E.</p> <p>Descend 25 ft. to cor. along SE. slope.</p>
19.90	<p>Fence, bears NW. and SE.</p>
19.94	<p>Fence, bears NW. and SE.</p>
00.00	<p>To cor. No. 5.</p> <p>Identical with cor. H-1 of the List survey, also cor. H-2, H. E. No. 022730, Peter Osterman, unsurveyed H. E. S. No. 128, which is a granite stone 12 x 8 x 10 ins. above ground, marked and witnessed as described by the Forest Service. I destroy all trace of this list cor. which refers to this claim, and at this point I set a</p>

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Chains

conglomerate stone 24 x 10 x 8 ins. 14 ins. in the ground, over a small stone marked with a cross (+) for Cor. No. 5 of this survey, marked 5-HES112 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 schist stone 48 x 36 x 10 ins. above ground, marked 5 H E S 112 B R

bears S. 27° 44' E. 105 lks. dist.

No. other bearings available. Pits impracticable.

Thence S. 60° 15' E. 105 lks. to cor. No. 1

Descend 35 ft. along SE. slope to creek.

4.60 Road, bears NE. and SW.

5.75 Kelner creek, 40 lks. wide, banks 2 ft. high, course NE. Ascend 25 ft. to cor.

7.88 To cor. No. 1 of this survey, the place of beginning.

January 8, 1914.

Area of Homestead Entry Survey No. 112.

Total Area 31.68 acres.

Note: The sun was obscured at apparent noon, therefore

Improvements

The improvements made upon and for the benefit of this

homestead and belonging to Frank Mark, the claimant

herein, consist of the following:

A frame chicken house 16 x 20 ft. the long side of which bears N. and S. and the NE. cor. of which bears S. 10° 30' W. 11.80 chs. dist. from cor. No. 5 of this survey.

Value \$ 50.00

A tent house 12 x 14 ft. the long side of which bears N. and S. and the NE. cor. of which bears S. 1° 15' W. 11.60 chs. dist. from cor. No. 5 of this survey.

Value \$ 50.00

which refers to this claim, and at this point I set

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ARIZONA

Chains

A well 4 x 4 x 64 ft. deep the center of which bears S. 5° 30' W. 10.80 chs. dist. from cor. No. 5 of this survey.

Value \$500.00

A frame house 14 x 16 ft. the long side of which bears N. and S. and the NW. cor. of which bears S. 1° 00' W. 12.00 chs. dist. from cor. No. 5 of this survey.

Value \$150.00

General Description

This claim is located on Kelner Creek at an elevation of approximately 3,900 ft. and is chiefly valuable for intensive farming and stock raising. No evidence of mineral appears upon this claim and the soil is a sandy loam which produces any crop raised in the temperate zone.

Globe postoffice and Arizona Eastern Railway station is 3-1/2 miles in a northeasterly direction.

Conflicts and Adjoining Claims

This claim is joined on the NE. by H.E. No. 022730, Peter Osterman, unsurveyed H. E. S. No. 128.

Traverse

Bearing	Distance	Latitude		Departure	
		N	S	E	W
S. 37° 23' W.	42.44		33.72		25.77
N. 26° 45' W.	10.30	9.20			4.64
N. 43° 54' E.	17.10	12.32		11.86	
N. 36° 00' E.	19.94	16.13		11.72	
S. 60° 15' E.	7.88		3.91	6.84	
	97.66	37.65	37.63	30.42	30.41
		<u>37.63</u>		<u>30.41</u>	

Error in Lat. and Dep. .02 .01

Closing Error 1:4368

Walter G. Turley
Forest Service Surveyor

4274

HOMESTEAD ENTRY SURVEY NO. 102730

FOREST NATIONAL FOREST

ARIZONA

Chains A well 4 x 4 x 64 ft. deep the center of which bears S. 5° 30' W. 10.80 chs. dist. from cor. No. 5 of this survey.

Value \$800.00

A frame house 14 x 16 ft. the long side of which bears N. and S. and the NW. cor. of which bears S. 1° 00' W. 12.00 chs. dist. from cor. No. 5 of this survey.

Value \$150.00

General Description

This claim is located on Kainer Creek at an elevation of approximately 3,900 ft. and is chiefly valuable for intensive farming and stock raising. No evidence of mineral appears upon this claim and the soil is a sandy loam which produces any crop raised in the temperate zone. Globe postoffice and Arizona Eastern Railway station is 3-1/2 miles in a northeasterly direction.

Conflicts and Adjoining Claims

This claim is joined on the NE. by H.R. No. 023730, Peter Osterman, surveyed H. E. S. No. 128.

Traverse

Departure	Latitude	Distance	Bearing
N	S	N	
38.77	33.78	42.44	S. 37° 31' W.
4.88		10.80	N. 36° 48' W.
	11.88	14.10	N. 43° 54' E.
	11.73	12.24	N. 36° 00' E.
	6.84	7.88	S. 60° 18' E.
30.43	37.63	37.63	
	30.41	37.63	
	01.		
			Error in Lat. and Dep. 1:4368
			Closing Error 1:4368

[Handwritten signature]
Forest Service Surveyor

DIRECTIONS.—1. Carry out the area $\frac{1}{2}$ acres to three decimals, and all other calculations to two decimals only.

2. In balancing Lat. and Dep. do not obliterate or change the original figures; but put below them 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.

3. In calculations of fallings take result to nearest hundredth. In calculations of N. and S. areas drop all after second decimal. Surveyors are advised to use the Standard Field Tables issued by G. L. O.

TABLING AND CALCULATIONS OF

Frank *Mark*, H. E. & S. 112

No.	COURSE	DISTANCE.	LATITUDES.		DEPARTURES.		DOUBLE M. D.	N. AREAS.	S. AREAS.
			NORTH.	SOUTH.	EAST.	WEST.			
	S 37° 23' 24"	42.44		33.72 ³		25.77 ⁸	3506	118257	
	N 26° 45' 24"	1030	920			464	464	4269	
	N 43° 54' E	1710	1232 ²		1186		1186	14612	
	N 36° 00' E	1994	1613 ²		1172		3544	57129	
	S 60° 15' E	788		391	684		5400	21114	
		9766	3765	3763	3042	3041		76010	139371
			3764	3764	3042	3042			76010
									<u>2163361</u>
									3168 = Area

APPROVAL

Office of the United States Surveyor General,
Phoenix, Arizona,
December 10, 1914.

The foregoing field notes of Homestead Entry Survey No.

112

Frank Mark

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.