

U. S. DEPARTMENT OF AGRICULTURE
FOREST SERVICE

FIELD NOTES

OF

HOMESTEAD ENTRY SURVEY NO. 304

SITUATED IN THE

CORONADO NATIONAL FOREST

ADMINISTRATIVE DISTRICT NO. 3

in

Section 24, un surveyed, Township 23 S., Range 16 E.

of the

Gila and Salt River Base and Meridian.

ARIZONA.

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

Under special instructions dated October 17, 1914 ✓

Survey commenced January 4, 1915

Survey completed January 5, 1915

Under Acts of June 11, 1906 and June 30, 1914. ✓

Applicant for listing Fred Miller, ✓

Residence Mowry, Arizona.

Application No. 180, dated April 5, 1911 ✓

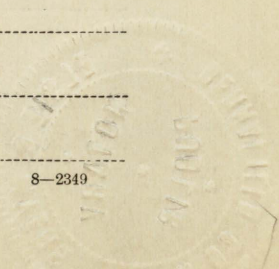
List No. 3-1418, dated September 16, 1911 ✓

Applicant for survey Chas. A. Miller, ✓

Residence Mowry, Arizona.

H. E. No. 022489, dated May 20, 1913 ✓

Land district Phoenix, Arizona.



OATH OF ASSISTANTS

We hereby certify that we assisted Walter G. Turley,
Surveyor - Forest Service in surveying all those
parts or portions of Homestead Entry Survey No. 304, in
un surveyed Section 24, Township 23 S., Range 16 E.,
-- surveyed 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 oaths
to Assistants; hence, they
were taken by the Surveyor.

Charles D. Hodson - Chainman.
Charles K. Baechy - Chainman.

Subscribed and sworn to before me this 21st day of
January, 1915.

Walter G. Turley
Surveyor - Forest Service

OATH OF SURVEYOR
Service

I, Walter G. Turley-Surveyor-Forest, do solemnly swear
that, in strict conformity with the special instructions of
the United States Surveyor General for Arizona, dated
October 17, 1914, 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. 3-1418 dated September 16, 1911, for
Patent, under the Act of June 11, 1906,
the same to be known as Homestead Entry Survey No. 304,
situated within the Coronado National Forest, in
un surveyed Section 24, Township 23 S., Range 16 E., and
-- surveyed 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
Surveyor - Forest Service

Subscribed and sworn to before me this 23^d day of
February, 1915.

Elsie C. Meyers
Notary Public



CORONADO NATIONAL FOREST

STATE OF ARIZONA.

Chains

Applicant for listing Fred Miller; Application No. 180, dated April 5, 1911; List No. 3-1418, dated September 16, 1911; Homestead Entry No. 022489; made in the Phoenix Land Office on May 20, 1913 by Chas. A. Miller whose postoffice address is Mowry, Arizona.

Surveyed under Acts of June 11, 1906, and June 30, 1914; and special instructions from the Surveyor General for Arizona, dated October 17, 1914, and designated as Homestead Entry Survey No. 304.

Situated in what will probably be when surveyed, sec. 24, T. 23 S., R. 16 E., G. & S. R. B. & M. within the Coronado National Forest, Arizona.

Survey commenced January 4, 1915, and executed with a W. & 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 to 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. The stadia wire interval is adjusted to read 1:132.

All distances are horizontal; and were reduced from measurements made directly on the slope, with a standard 500 link steel tape graduated to links and tenths; and the slope angles determined with a clinometer the vernier of which reads to degrees; and a Philadelphia stadia rod, graduated to feet and hundredths; provided with two targets the verniers of which read to thousandths of a foot.

Chains

January 4, 1915.

I set up my transit over cor. H-6, of List 3-1418, which is a granite 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 8h. 40m., 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. $31^{\circ} 24' 46''$ N., long. $110^{\circ} 39' 47''$ W.

Astron. l.m.t., obsn. Jan. 4, 1915 8h. 40.0m.

Astron. l.m.t., U.C. Pol. Jan. 4, 1915 6h. 34.8m.

Hour angle Pol. at obsn. 2h. 05.2m.

Time argument 2h. 05.2m.

Azimuth Pol. at obsn. $0^{\circ} 42' 12''$ W.

With my transit set up over cor. H-6 of List 3-1418, heretofore described, and the telescope reversed in altitude and azimuth, at 8h. 50m., 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. Jan. 4, 1915 8h. 50.0m.

Astron. l.m.t., U.C. Pol. Jan. 4, 1915 6h. 34.8m.

Hour angle Pol. at obsn. 2h. 15.2m.

Time argument 2h. 15.2m.

Azimuth of Pol. at obsn. $0^{\circ} 45' 12''$ W.

January 4, 1915.

January 5, 1915.

I turn off $0^{\circ} 42'$, the azimuth of Polaris, to the E.

from her direction at 8h. 40m., p.m., l.m.t., January 4,

Chains

1915; 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 $0^{\circ} 45'$, the azimuth of Polaris, to the E. from her direction at 8h. 50m., 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 $0^{\circ} 00' 14''$ 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 $31^{\circ} 24' 46''$ N., and longitude $110^{\circ} 39' 47''$ W. at 1/4 cor. to secs. 19 and 24, T. 23 S., Rs. 16 and 17 E. taken from the special instructions of the Surveyor General. Cor. No. 1 of this survey is identical with the 1/4 cor. to secs. 19 and 24. It was not practicable to check the latitude by direct observation.

My watch is set for standard 105th. meridian time from which I subtract 22m. 39s. for l.m.t.

Observed magnetic declination, cor. No. 1, January 5, 1915, 8h. 00m., a.m., l.m.t., is $13^{\circ} 38'$ E., which reduced gives a mean magnetic declination of $13^{\circ} 37'$ E.

RETRACEMENTS.

Thence North.

On a random line from 1/4 cor. to secs. 19 and 24, T. 23 S., Rs. 16 and 17 E., which is a sandstone 10 x 6 x 6 ins., above ground, chiseled 1/4 on W. face with mound of stone W. of cor. from which:

CORONADO NATIONAL FOREST

STATE OF ARIZONA.

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A 9 in. oak, scribed 1/4 S 19 B T bears N. 42° 45'
E. 59 lks.

A 26 in. oak, scribed 1/4 S 24 B T bears N.
34° 00' W. 18 lks.

40.28 I fall 8 lks. E. of cor. to secs. 13, 18, 19 and 24 which
is a sandstone 7 x 7 x 6 ins., above ground, marked and
witnessed as described by the Surveyor General.

Return course S. 0° 07' E. 40.28 lks.

Note: The tree S. 58° 00' E. 113 lks. is standing.

The others have been cut.

BOUNDARIES.

Cor. No. 1.

I adopt the 1/4 cor. to secs. 19 and 24, T. 23 S., Rs.
16 and 17 E., marked and witnessed as heretofore

described for cor. No. 1 of this survey; and set a

W. C. 2 lks. N. of the true cor. as follows: I chisel
(+) on a stone 4 x 3 x 2 ins., and deposit it 14 ins.

in the ground; over which I set a porphyry stone
24 x 12 x 8 ins., 14 ins. in the ground; chiseled (+)

at the point and W C - 1 - H E S 304 on the NW. face

and re-establish the mound of stone 2 ft. base, 1-1/2 ft.
high, W. of cor. from which:

A 17 in. white oak, scribed W C 1 H E S 304 + B T
bears N. 35° 26' W. 18 lks.

A 7 in. black oak scribed W C 1 H E S 304 + B T
bears N. 41° 44' E. 59 lks.

Cor. H-6 of list 3-1418 which is a granite stone

6 x 4 x 4 ins. above ground marked and witnessed

as described by the Forest Service bears S. 1 lk.

from cor. No. 1 of this survey. I destroy all

trace of this list cor.

...

HOMESTEAD ENTRY SURVEY NO. 304

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Thence S. 88° 16' W.

Desc. NW. slope 20 ft. in oak brush.

2.00 Ravine course N. Ascend NE. slope 15 ft.

5.40 Spur bears NW. and SE. Descend W. slope 30 ft.

8.38 Wire fence bears NE. and SW. Continue over bottom.

10.51 To cor. No. 2.

Identical with cor. H-5 of List 3-1418, which is a granite stone 6 x 4 x 3 ins. above ground marked and witnessed as described by the Forest Service. I destroy cor. H-5 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 16 ins. in the ground; over which I set a porphyry stone 26 x 12 x 10 ins., 16 ins. in the ground; chiseled (+) at the point and 2 - H E S 304 on the NW. face and raise a mound of stone 2 ft. base, 1-1/2 ft. high, SE. of cor. from which:

A 12 in. black oak scribed 2 H E S 304 + B T,
bears N. 60° 14' W. 97 lks.

A 6 in. black oak scribed 2 H E S 304 + B T,
bears S. 77° 00' E. 195 lks.

It was not practicable to place the mound of stone
NW. of cor.

Thence S. 0° 54' W.

Over open bottom.

2.10 Right bank arroyo, 2 ft. high, course NW. Enter arroyo.

3.35 Right bank of arroyo, 2 ft. high, course NE. Leave
arroyo and continue over meadow.

4.30 Wire fence bears NNE. and WSW. Leave bottom and ascend
NW. slope 20 ft. in oak brush.

9.35 To cor. No. 3.

Identical with cor. H-4 of List 3-1418, which is a
granite stone 8 x 4 x 4 ins. above ground marked and

Chains

witnessed as described by the Forest Service. I destroy cor. H-4 and its witnesses; and, for cor. No. 3 of this survey, I chisel (+) on a stone 3 x 3 x 3 ins., and deposit it 16 ins. in the ground; over which I set a porphyry stone 26 x 10 x 6 ins., 16 ins. in the ground; chiseled (+) at the point and 3 - H E S 304 on the NW. face and raise a mound of stone 2 ft. base, 1-1/2 ft. high, NW. of cor. from which:

A 5 in. white oak scribed 3 H E S 304 + B T,
bears N. 73° 53' W. 34 lks.

A 5 in. white oak scribed 3 H E S 304 + B T,
bears S. 72° 16' W. 29 lks.

Thence west.

Asc. NE. slope 20 ft. in oak brush.

1.60 Spur bears NW. and SE. Descend W. slope 40 ft. in oak brush.

4.16 Cor. wire fence, fence bears W. and NNE. Foot of slope. Continue over bottom along fence.

9.42 To cor. No. 4.

At which point I chisel (+) on a stone 4 x 4 x 2 ins. and deposit it 14 ins. in the ground; over which I set a porphyry stone 24 x 10 x 6 ins., 14 ins. in the ground; chiseled (+) at the point and 4 - H E S 304 on the NE. face and dig pits 24 x 24 x 12 ins., crosswise on this and the succeeding course, 7 ft. dist. and raise a mound of earth 4 ft. base, 2 ft. high, NE. of cor. from which:

A 7 in. black oak scribed 4 H E S 304 + B T,
bears N. 82° 00' W. 133 lks.

A 14 in. black oak scribed 4 H E S 304 + B T,
bears S. 19° 48' E. 57 lks.

Cor. No. 2 H. E. S. 315 bears S. 1° 32' W. 6.01
chs. from cor. No. 4 of this survey.

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Cor. H-3 of List 3-1418 which is a granite stone 8 x 8 x 4 ins. above ground, marked and witnessed as described by the Forest Service, bears west 44 lks. from cor. No. 4 of this survey. I

destroy all trace of this list cor.

Thence North.

Over bottom flooded by arroyo. No channel at this point. Fence runs N. along list line H-3 to H-2.

8.00 Arroyo 15 lks. wide, banks 1 ft. high, course E. Leave bottom. Ascend SE. slope 20 ft. in oak brush.

19.97 Cor. H-3 of List 3-3262 which is a granite stone 4 x 4 x 4 ins. above ground marked and witnessed as described by the Forest Service. Continue along List 3-3262.

Descend NE. slope 25 ft.

24.73 Ranch road bears E. and W.

26.00 Mowry Wash, 60 lks. wide, banks 4 ft. high, course E.

Small stream of water. Ascend S. slope 15 ft.

39.92 To cor. No. 5. Identical with cor. H-2 of List 3-1418, also cor. H-2 of List 3-3262, which is a riolite stone 8 x 2 x 4 ins.

above ground marked and witnessed as described by the Forest Service. I destroy cor. H-2 of List 3-1418

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 14 ins. in the ground; over which I set a porphyry stone 24 x 12 x 4 ins., 14 ins. in the ground;

chiseled (+) at the point and 5 - H E S 304 on the SE. face, and dig pits 24 x 24 x 12 ins. crosswise on this and the succeeding course 7 ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high, SE. of cor.

from which: A 6 in. black oak, scribed 5 H E S 304 + B T bears S. 45° 10' E. 63 lks.

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Chains

A 6 ins. black oak scribed 5 H E S 304 + B T,
 bears N. 75° 05' W. 46 lks.
 Cor. No. 5 is under fence which bears E. and W.

Thence S. 89° 53' E.
 Along line between Lists No. 3-1418 and 3-3262.

Descend SE. slope 5 ft. in oak brush. Along fence.
 10.00 Cor. H-1 of List 3-3262, which is a granite stone
 7 x 7 x 3 ins. above ground marked and witnessed as
 described by the Forest Service. Leave List 3-3262.

19.84 Cor. fence. Fence bears N. and W.
 20.00 To cor. No. 6.

And a closing corner on line between secs. 19 and 24.
 Identical with cor. H-1 of List 3-1418, which is a
 granite stone 8 x 4 x 4 ins. above ground marked and
 witnessed as described by the Forest Service. I des-
 troy cor. H-1 and its witnesses; and, for cor. No. 6
 of this survey, I chisel (+) on a stone 4 x 4 x 2 ins.
 and deposit it 14 ins. in the ground; over which I set
 a porphyry stone 24 x 12 x 8 ins., 14 ins. in the
 ground; chiseled (+) at the point, C C on W. face, and
 6 - H E S 304 on the SW. face and dig pits 24 x 18 x 12
 ins. crosswise on line N. and S., 3-1/2 ft. dist. and
 W. 7 ft. dist. and raise a mound of earth 4 ft. base,
 2 ft. high, W. of cor. from which:

A 6 in. black oak, scribed 6 H E S 304 + B T,
 bears S. 9° 21' W. 130 lks.

A 6 in. black oak, scribed 6 H E S 304 + B T,
 bears S. 27° 10' W. 94 lks.

Cor. to secs. 13, 18, 19 and 24 bears N. 0° 07' W.
 10.07 chs.

1/4 cor. to secs. 19 and 24, bears S. 0° 07' E.
 30.21 chs.

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Chains	Thence S. 0° 07' E.
	Along line between secs. 19 and 24. Descend SE. slope 10 ft. in oak brush.
8.70	Left bank San Rafael Creek bed 4 ft. high, course E. Small stream of water.
13.50	Right bank San Rafael Creek bed 4 ft. high, course E. Continue over bottom.
20.10	Wire fence bears ENE. and WSW. Leave bottom and ascend N. slope 40 ft. in oak brush.
25.30	Spur bears NW. and SE. Descend SW. slope 25 ft.
28.40	Ravine, course W. Ascend N. slope 25 ft.
30.21	To cor. No. 1, the place of beginning.

AREA.

Total area - - - - - 69.93 acres.

IMPROVEMENTS.

A 6 in. casing drilled 250 ft. deep, bears S. 83° 30' E. 9.04 chs. from cor. No. 5 of this survey.

Estimated value - - - - - \$1750.00

A 6 in. casing drilled 350 ft. deep and windmill bears N. 3° 14' W. 9.95 chs. from cor. No. 28 of this survey.

Estimated value - - - - - \$1500.00

Approximately 1 mile wire fencing.

Estimated value - - - - - \$100.00

Approximately 5-1/2 acres of cultivated land.

DESCRIPTION.

This claim is situated on the E. slope of the Patagonia Mountains at an elevation of approximately 5200 ft. and is valuable for general farming and stock raising. Oak brush grows on the slopes. There is no timber on this claim.

Chains

Water flows in the San Rafael part of the time. Water for cattle and domestic purposes is obtained from the well. None is used for irrigation.

The bottom soil is a sandy loam and produces good crops of corn, sorghums, and grain.

The mountains immediately west of this claim are mineralized, but no townsites, mining, coal, or oil claims are known to conflict with this homestead.

Mowry postoffice is 2 miles by road in a westerly direction. Patagonia railway station is 13 miles by road in a northwesterly direction.

There are no conflicts. The remainder of H. E. No.

022489 adjoins this survey on the east. List 3-3262 adjoins this survey on the N. and W. Cor. No. 2

H. E. S. No. 315, based on List 3-3168 bears S. 1° 32' W. 6.01 chs. from cor. No. 4 of this survey.

TRAVERSE.

Cor.	Course.	Dist.	N.	S.	E.	W.
1-2	S. 88° 16' W.	10.51		0.32		10.51
2-3	S. 0° 54' W.	9.35		9.35		0.15
3-4	West.	9.42				9.42
4-5	North.	39.92	39.92			
5-6	S. 89° 53' E.	20.00		0.04	20.00	
6-1	S. 0° 07' E.	30.21		30.21	0.06	
		119.41	39.92	39.92	20.06	20.08
				39.92		20.06
	Error in lat. and dep.			0.00		0.02

Closing error 1:5971

Survey completed January 5, 1915.

Walter J. Purley
Surveyor - Forest Service.

APPROVAL


Office of the United States Surveyor General,

Phoenix, Arizona May 4 , 1917

The foregoing field notes of Homestead Entry Survey No.

304

executed by Walter G. Turley, Surveyor-Forest Service [Forest Service Title.]
under his special instructions, dated October 17, 1914, having
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.