

U. S. DEPARTMENT OF AGRICULTURE
FOREST SERVICE

AN 3-1915

306

FIELD NOTES

OF

HOMESTEAD ENTRY SURVEY NO. 306

SITUATED IN THE

CORONADO NATIONAL FOREST

ADMINISTRATIVE DISTRICT NO. 3

in

Section 1, unsurveyed, Township 23 S., Range 16 E.

Section 2, unsurveyed, 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 7, 1915

Survey completed January 8, 1915

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

Applicant for listing Richard Farrell,

Residence Patagonia, Arizona.

Application No. 187 ✓, dated March 2, 1911 ✓

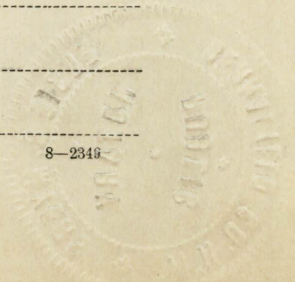
List No. 3-1419 ✓, dated September 5, 1911 ✓

Applicant for survey Richard Farrell,

Residence Patagonia, Arizona.

H. E. No. 017757 ✓, dated June 29, 1912 ✓

Land district Phoenix, Arizona.



82

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. 306, in
unsurveyed Section 1, Township 23 S., Range 16 E.,
unsurveyed Section 2, Township 23 S., Range 16 E.,

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, Chairman
Charles K. Baerly, Chairman

Subscribed and sworn to before me this 21st day of

January, 1915.

Walter G. Turley
Surveyor - Forest Service

OATH OF SURVEYOR

I, Walter G. Turley, Surveyor - Forest Service, 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. 3-1419, dated Sept. 5, 1911, for
Patent, under the Act of June 11, 1906,
the same to be known as Homestead Entry Survey No. 306,
situated within the CORONADO National Forest, in
unsurveyed Section 1, Township 23 S., Range 16 E., and
unsurveyed Section 2, Township 23 S., Range 16 E.,

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 23d day of

February, 1915.

Elsie C. Myers
Notary Public



CORONADO NATIONAL FOREST

STATE OF ARIZONA

Chains Applicant for listing, Richard Farrell, Application No. 187, dated March 2, 1911; List No. 3-1419, dated September 5, 1911; Homestead Entry No. 017757, made in the Phoenix Land Office on June 29, 1912 by Richard Farrell whose post office address is Patagonia, 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. 306.

Situated in what will probably be, when surveyed, secs. 1 and 2, T. 23 S., R. 16 E., Gila and Salt River Base and Meridian, within the Coronado National Forest, Arizona.

Survey commenced January 7, 1915 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 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 thous-

Chains and lengths of a foot.

187, dated March 8, 1911; List No. 3-1419, dated

January 7, 1915.

I set up my transit over cor. H-1 of List 3-1419, which

is a rhyolite stone 8 x 4 x 5 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. 05m. 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. $31^{\circ} 27' 29''$ N., and Long. $110^{\circ} 40' 19''$ W.

Astron. l.m.t., obsn., Jan. 7, 1915, 8h. 05.0m.

Astron. l.m.t., U.C. Pol., Jan 7, 1915, 6h. 23.0m.

Hour angle Pol. at obsn., 1h. 42.0m.

Azimuth Pol. at obsn., $0^{\circ} 35' 00''$ W.

With my transit set up over cor. H-1 of List 3-1419,

heretofore described, and the telescope reversed in

altitude and azimuth, at 8h. 16m. 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 7, 1915, 8h. 16.0m.

Astron. l.m.t., U.C. Pol., Jan 7, 1915, 6h. 23.0m.

Hour angle Pol. at obsn., 1h. 53.0m.

Azimuth of Pol. at obsn., $0^{\circ} 38' 30''$ W.

January 7, 1915.

January 8, 1915.

I turn off $0^{\circ} 35'$, the azimuth of Polaris, to the E. from

her direction at 8h. 05m. p.m., l.m.t., January 7, 1915;

CORONADO NATIONAL FOREST

STATE OF ARIZONA

Chains 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 $0^{\circ} 38-1/2'$, the azimuth of Polaris, to the E. from her direction at 8h. 16m. 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 $0^{\circ} 00' 12''$ 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 $31^{\circ} 27' 22''$ N. and Longitude $110^{\circ} 39' 47''$ W. at $1/4$ cor. to secs. 1 and 6, T. 23 S., Rs. 16 and 17 E., taken from the special instructions of the Surveyor General, which gives Latitude $31^{\circ} 27' 29''$ N. and Longitude $110^{\circ} 40' 19''$ W. at cor. No. 1 of this survey. 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. 42s. for l.m.t.

The observed magnetic declination at cor. No. 1, January 8, 1915, 8h. 00m. a.m., l.m.t., is $13^{\circ} 45'$ E., which reduced gives a mean magnetic declination of $13^{\circ} 44'$ E.

Thence S. $74^{\circ} 21'$ E.

On a random line.

40.96 Intersect W. C. $1/4$ secs. 1 and 6, T. 23 S., Rs. 16 and 17 E., which is a granite stone 10 x 10 x 6 ins. above

86
HOMESTEAD ENTRY SURVEY NO. 306

CORONADO NATIONAL FOREST

STATE OF ARIZONA

Chains at ground, chiseled W. C 1/4 on W. face, with mound
of stone 2 ft. base, 1-1/2 ft. high, W. of cor.,
from which:
A 6 in. pinon, scribed W C 1/4 S 6 B T,
bears N. 9° 00' E., 28 lks.
A 6 in. pinon, scribed W C 1/4 S 1 B T,
bears S. 65° 00' W., 83 lks.
True point for 1/4 cor. bears North 1.00 ch.

Thence N. 74° 21' W.
On a true line by direct measurement from the W. C.
1/4 cor. to secs. 1 and 6, T. 23 S., Rs. 16 and 17 E.
40.96 To cor. No. 1.

Identical with cor. H-1 of list 3-1419, which is a
rhyolite stone 8 x 4 x 5 ins. above ground, marked
and witnessed as described by the Forest Service, and
is on line 3 - 4 of H. E. S. No. 305. I destroy cor.
H-1 and its witnesses; and, for cor. No. 1 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 quartzite stone 24 x 8 x 7 ins., 14 ins. in the
ground; chiseled (+) at the point and 1 - H E S 306
on the SW. face; and raise a mound of stone 2 ft. base,
1-1/2 ft. high, SW. of cor., from which:

A 7 in. black oak, scribed 1 H E S 306 + B T,
bears N. 46° 20' W., 285 lks.

Cor. No. 4 H. E. S. 305 bears N. 8° 07' E.,
24.79 chs.

Cor. No. 3 H. E. S. 305 bears S. 8° 07' W.,
40.01 chs.

W. C. 1/4 cor. secs. 1 and 6 bears S. 74° 21' E.,

CORONADO NATIONAL FOREST

STATE OF ARIZONA

Chains	40.96 chs.
	Thence S. 8° 07' W.
	Along line 4 - 3 of H. E. S. No. 305. Over cultivated land.
5.98	Wire fence bears NNE. and SSW. Leave cultivated land and ascend N. slope 20 ft. in oak brush.
11.00	To cor. No. 2.
	Identical with cor. H-6 of List 3-1419, which is a quartzite stone 10 x 4 x 5 ins. above ground, marked and witnessed as described by the Forest Service. I destroy cor. H-6 and its witnesses; and, for cor. No. 2 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 14 x 5 ins., 14 ins. in the ground; chiseled (+) at the point and 2 - H E S 306 on the NW. face; and raise a mound of stone 2 ft. base, 1-1/2 ft. high, NW. of cor., from which:
	A 7 in. black oak, scribed 2 H E S 306 + B T, bears N. 3° 06' E., 54 lks.
	A 5 in. black oak, scribed 2 H E S 306 + B T, bears N. 80° 10' E., 61 lks.
	Cor. No. 4 H. E. S. 305 bears N. 8° 07' E., 35.79 chs.
	Cor. No. 3 H. E. S. 305 bears S. 8° 07' W., 29.01 chs.
	Thence S. 74° 23' W.
	Ascend N. slope 15 ft. in oak brush.
0.27	Wire fence bears N. and S.
18.00	Wire fence bears N. and S. Descend N. slope 15 ft.
43.68	Right bank arroyo, 4 ft. high, course NE.

CORONADO NATIONAL FOREST

STATE OF ARIZONA

Chains 44.56	Left bank arroyo, 4 ft. high, course NE. Ascend SE. slope 50 ft.
61.78 77.68	Ridge bears NE. and SW. Descend NW. slope 50 ft. To cor. No. 3. Identical with cor. H-5 of List 3-1419, which is a granite stone 10 x 8 x 5 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 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 4 ins., 14 ins. in the ground; chiseled (+) at the point and 3 - H E S 306 on the NE. face; and raise a mound of stone 2 ft. base, 1-1/2 ft. high, NE. of cor., from which: A 6 in. juniper, scribed 3 H E S 306 + B T, bears S. 60° 35' W., 204 lks. A 7 in. juniper scribed 3 H E S 306 + B T, bears S. 21° 41' E., 166 lks.
	Thence N. 9° 06' W. Over bottom in open.
0.15 8.90 9.99	Arroyo, 40 lks. wide, banks 8 ft. high, course ENE. Leave bottom, bears NE. and SW. Ascend S. slope 10 ft. in oak brush. To cor. No. 4. Identical with cor. H-4 of List 3-1419, which is a granite stone 8 x 8 x 4 ins. above ground, marked and witnessed as described by the Forest Service. I de- stroy cor. H-4 and its witnesses; and for cor. No. 4 of this survey, I chisel (+) on a stone 3 x 3 x 2 ins., and deposit it 14 ins. in the ground; over which I set

CORONADO NATIONAL FOREST

STATE OF ARIZONA

Chains A a basalt stone 24 x 10 x 10 ins., 14 ins. in the ground; chiseled (+) at the point and 4 - H E S 306 on the SE. 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 4 H E S 306 + B T, bears S. 10° 22' W., 39 lks.

A 6 in. juniper, scribed 4 H E S 306 + B T, bears N. 28° 45' E., 82 lks.

Thence N. 69° 40' E. Ascend S. slope 20 ft. in oak brush. Ridge bears E. and W. Descend NE. slope 35 ft. Leave slope and enter bottom, bears NW. and SE. To cor. No. 5.

Identical with cor. H-3 of List 3-1419, which is a quartzite stone 8 x 6 x 4 ins. above ground, marked and witnessed as described by the Forest Service. I destroy cor. H-3 and its witnesses; and for cor. No. 5 of this survey, I chisel (+) on a stone 3 x 3 x 2 ins. and deposit it 14 ins. in the ground; over which I set a basalt stone 24 x 10 x 10 ins., 14 ins. in the ground; chiseled (+) at the point and 5 - H E S 306 on the SE. 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 5 H E S 306 + B T, bears S. 33° 10' E., 212 lks.

A 6 in. juniper, scribed 5 H E S 306 + B T, bears S. 20° 05' W., 107 lks.

Chains Thence N. 0° 27' E. Over bottom in open.
 0.40 Leave bottom, bears NW. and SE. Ascend SW. slope 30 ft.
 7.30 Ridge bears NW. and SE. Descend N. slope 20 ft.
 10.50 Ravine, course SE. Ascend S. slope 50 ft.
 16.35 Ridge bears NW. and SE. Descend N. slope 55 ft.
 21.00 Bottom bears E. and W. Continue over bottom in open.
 23.79 To cor. No. 6.

Identical with cor. H-2 of List 3-1419, which is a granite stone 8 x 8 x 4 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 2 ins., and deposit it 14 ins. in the ground; over which I set a porphyry stone 24 x 13 x 5 ins., 14 ins. in the ground chiseled (+) at the point and 6 - H E S 306 on the SE. face; and raise a mound of stone 2 ft. base, 1-1/2 ft. high, SE. of cor., from which:
 A 7 in. black oak, scribed 6 H E S 306 + B T, bears N. 59° 08' W., 86 lks.
 A 7 in. black oak, scribed 6 H E S 306 + B T, bears N. 32° 30' E., 78 lks.
 1/4 cor. to sec. 35, T. 22 S., R. 16 E., which is a standard iron post with brass cap, 12 ins. above ground, marked and witnessed as described by the Surveyor General, bears N. 4° 45' E., 25.87 chs. from cor. No. 6 of this survey.

CORONADO NATIONAL FOREST

STATE OF ARIZONA

Chains Thence S. 78° 06' E. -----
 Desc. open E. slope 10 ft.
 7.57 Right bank arroyo, 7 ft. high, course SE.
 7.97 Left bank arroyo, 7 ft. high, course SE. Continue
 along S. slope in cultivated land.
 12.64 Wire fence bears NW. and SE. Leave cultivated land.
 13.05 Harshaw road bears NW. and SE.
 23.50 Fence bears NW. and SE.
 23.93 Arroyo 10 lks. wide, banks 4 ft. high, course S.
 39.65 Fence bears ENE. and WSW.
 40.05 Harshaw road bears ENE. and WSW.
 46.80 Descend SE. slope 10 ft. in oak brush.
 52.40 Left bank arroyo, 4 ft. high, course NE.
 53.40 Right bank arroyo, 4 ft. high, course NE.
 53.45 Fence bears NE. and SW.
 54.02 To cor. No. 1, the place of beginning.

AREA

Total area - - - - - 151.01 acres

IMPROVEMENTS

A frame stable 30 x 24 ft., the long side extending E.
 and W., and the NW. cor. of which bears S. 74° 00' E.,
 43.50 chs. from cor. No. 6 of this survey.

Estimated value ----- \$500.00

A frame chicken house, 16 x 14 ft., the long side ex-
 tending E. and W. and the NW. cor. of which bears
 S. 68° 30' E., 35.50 chs. from cor. No. 6 of this
 survey.

Estimated value ----- \$ 75.00

A well, 4 x 4 x 30 ft. deep, the center of which bears
 S. 63° 30' E., 34.98 chs. from cor. No. 6 of this
 survey.

Chains

Estimated value ----- \$100.00

A frame dwelling 24 x 16 ft., the long side extending E. and W. and the NW. cor. of which bears S. 55° 00' E., 36.48 chs. from cor. No. 6 of this survey.

Estimated value ----- \$200.00

Approximately 2 miles of wire fencing.

Estimated value ----- \$200.00

Approximately 23 acres of cultivated land.

DESCRIPTION

This claim is situated on the NE. slope of the Patagonia Mountains at an elevation of approximately 4500 ft. and is valuable for farming and livestock raising. Oak brush on the slopes is the only verdure. Sufficient water for domestic purposes is obtained from the well. Some water for irrigation is obtained from the arroyos.

The bottom soil is a dark sandy loam and productive.

Good crops of corn, small grains, beans and sorghums have been raised.

This section is mineralized, but no townsites, mining, coal or oil claims are known to have been located on or near this homestead.

Patagonia post office and railway station is 9 miles by wagon road in a Northwesterly direction.

There are no conflicts. H. E. S. No. 305 adjoins this claim on the East.

Estimated value ----- \$75.00
A well, 4 x 4 x 30 ft. deep, the center of which bears S. 83° 30' E., 34.98 chs. from cor. No. 6 of this survey.

CORONADO NATIONAL FOREST

STATE OF ARIZONA

Chains

TRAVERSE

Cor.	Course	Dist.	N	S	E	W	
1-2	S. 8° 07' W.	11.00		10.89		1.55	
2-3	S. 74° 23' W.	77.68		20.91		74.81	
3-4	N. 9° 06' W.	9.99	9.86			1.58	
4-5	N. 69° 40' E.	26.55	9.23		24.90		
5-6	N. 0° 27' E.	23.79	23.79		0.19		
6-1	S. 78° 06' E.	54.02		11.14	52.86		
			203.03	42.88	42.94	77.95	77.94
					42.88	77.94	

Error in Lat. and Dep. 0.06 0.01

Closing error 1:3338.

Survey completed January 8, 1915.

Walter J. Purdy
Surveyor - Forest Service

NATIONAL FOREST

STATE OF ARIZONA

Chains

TRAVELERS

Chains

Cor.	Course	Dist.	H	S	H	W
1-2	S. 87° 07' W.	11.00		10.89		1.11
2-3	S. 74° 23' W.	77.68		20.91		74.81
3-4	N. 9° 08' W.	9.99	9.88			1.11
4-5	N. 69° 40' E.	20.88	9.23		24.90	
5-6	N. 0° 27' E.	23.79	23.79		0.19	
6-1	S. 78° 08' E.	24.02		11.14		22.88

202.03	42.88	42.88	77.95	77.95	77.94
	42.88	42.88	77.94	77.94	

Survey completed January 8, 1915.
 Closing error 1:3338.
 Error in lat. and Dep. 0.06 0.01

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. 306, STATE OF ARIZONA, Colorado.

CORNERS.	BEARING.	DISTANCE.	LATITUDES.		DEPARTURES.		DOUBLE M. D.	N. AREAS.	S. AREAS.
			NORTH.	SOUTH.	EAST.	WEST.			
1-2 <i>14117.98998</i>	S. 8° 07' W.	11.00		10 89		1 55	154 35	1680 87	
2-3 <i>96208.86920</i>	S. 74° 23' W.	77.68		20 91		74 81	77 98	1629 00	
3-4 <i>15876.98764</i>	N. 9° 06' W.	9.99	9 86			1 58	1 58		15 58
4-5 <i>95269.84248</i>	N. 698° 40' E.	26.55	9 23		24 90		24 90		230 08
5-6 <i>50765.99997</i>	N. 0° 27' E.	23.79	23 79		0 19		49 99		1189 76
6-1 <i>70257.86256</i>	S. 78° 06' E.	54.02		11 14	52 86		103 04	1145 80	
		203.03	42 88	42 94	77 95	77 94		1435 42	4455 67
			<i>42 90</i>	<i>42 90</i>	<i>77 95</i>	<i>77 95</i>		1435 42	1435 42
	Closing error 1:3338							3020 25	3020 25
							Area -	151 01	151 01

95

74

APPROVAL

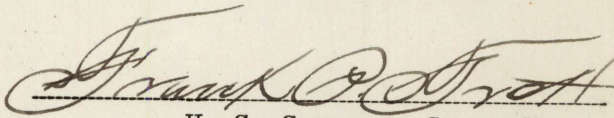
Office of the United States Surveyor General,

Phoenix, Arizona, April 16, 1917

The foregoing field notes of Homestead Entry Survey No.

306

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.