

U. S. DEPARTMENT OF AGRICULTURE  
FOREST SERVICE

FEB 3 - 1916

**FIELD NOTES**

OF

HOMESTEAD ENTRY SURVEY NO. 289

SITUATED IN THE

COBONADO NATIONAL FOREST

ADMINISTRATIVE DISTRICT NO. 3

in

Section 18, unsurveyed, Township 22 S., Range 19 E.

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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 December 18, 1914

Survey completed December 19, 1914

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

Applicant for listing Chester Bartell

Residence Canille, Arizona

Application No. 209, dated July 23, 1912

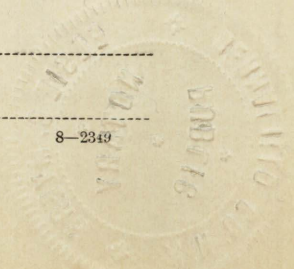
List No. 3-2200, dated January 2, 1913

Applicant for survey Forest A. Terry

Residence Canille, Arizona

H. E. No. 022642, dated June 6, 1913

Land district Phoenix, Arizona





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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. 289, in  
unsurveyed Section 18, Township 22 S., Range 19 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 G. Baecht, Chainman  
- - - - -  
- - - - -

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. 3-2200, dated January 2, 1913, for  
Patent, under the Act of June 11, 1906,  
the same to be known as Homestead Entry Survey No. 289,  
situated within the CORONADO National Forest, in  
unsurveyed Section 18, Township 22 S., Range 19 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 23rd day of  
February, 1915.

Elsie C. Myers  
Notary Public





CORONADO NATIONAL FOREST

STATE OF ARIZONA

Chains Applicant for listing Chester Bartell, Application No. 209, dated July 23, 1912; List No. 3-2200, dated January 2, 1913; Homestead Entry No. 022642, made in the Phoenix Land Office on June 6, 1913 by Forest A. Terry whose post office address is Canille, 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. 289.

Situated in unsurveyed Sec. 18, T. 22 S., R. 19 E., Gila and Salt River Base and Meridian, within the Coronado National Forest, Arizona.

Survey commenced December 18, 1914 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 thousandths of a foot.



CORONADO NATIONAL FOREST

STATE OF ARIZONA

Chains December 18, 1914.

I set up my transit over the 1/4 cor. to secs. 13 and 18, T. 22 S., Rs. 18 and 19 E., which is a sandstone 16 x 9 x 5 ins. above ground, marked and witnessed as hereinafter described, and, with telescope direct, I observe Polaris in accordance with instructions at 5h. 30m. p.m. level 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° 30' 58" N., and Long. 110° 27' 32" W.

Astron. l.m.t., obsn., Dec. 17, 1914, 29h. 30.0m.  
 Astron. l.m.t., U.C. Pol., Dec. 17, 1914, 7h. 45.9m.  
 Hour angle Pol. at obsn., 21h. 44.1m.  
 23h. 56.1m.  
 Time argument, 2h. 12.0m.

Azimuth Pol. at obsn., 0° 44' 24" E.

With my transit set up over the 1/4 cor. to secs. 13 and 18, T. 22 S., Rs. 18 and 19 E., hereinafter described, and the telescope reversed in altitude and azimuth, at 5h. 39m. 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., Dec. 17, 1914, 29h. 39.0m.  
 Astron. l.m.t., U.C. Pol., Dec. 17, 1914, 7h. 45.9m.  
 Hour angle Pol. at obsn., 21h. 53.1m.  
 23h. 56.1m.  
 Time argument, 2h. 03.0m.

Azimuth of Pol. at obsn., 0° 41' 42" E.

December 18, 1914.

December 19, 1914.

I turn off 0° 44-1/2', the azimuth of Polaris, to the W.



## CORONADO NATIONAL FOREST

STATE OF ARIZONA

Chains

from her direction at 5h. 30m. p.m., l.m.t., December 18, 1914; 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  $0^{\circ} 41-1/2'$ , the azimuth of Polaris, to the W. from her direction at 5h. 39m. 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  $0^{\circ} 00' 38''$  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.

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Latitude  $31^{\circ} 30' 58''$  N. and Longitude  $110^{\circ} 27' 32''$  W.

at the  $1/4$  cor. to secs. 13 and 18, T. 22 S., Rs. 18 and 19 E., taken from the special instructions of the Surveyor General, which reduced gives Latitude  $31^{\circ} 31' 08''$  N. and Longitude  $110^{\circ} 27' 32''$  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 21m. 50s. for l.m.t.

The magnetic declination at cor. No. 1, December 19, 1914, 8h. 00m. a.m., is  $13^{\circ} 40' E.$ , which reduced gives a mean magnetic declination of  $13^{\circ} 39' E.$

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RETRACEMENT

Thence North.

On a random line from cor. to secs. 13, 18, 19 and 24, T. 22 S., Rs. 18 and 19 E. (T. 22 S. R. 18 E. surveyed and accepted), a sandstone  $10 \times 8 \times 5$  ins. above ground,



CORONADO NATIONAL FOREST

STATE OF ARIZONA

marked and witnessed as described by the Surveyor  
Chains General.

40.04 I fall 4 lks. E. of the 1/4 cor. to secs. 13 and 18,  
a sandstone 10 x 5 x 5 ins. above ground, chiseled  
1/4 on W. face, from which:

A 5 in. black oak, scribed 1/4 S 18 B T,

bears N. 25° 00' E., 263 lks.

A 9 in. black oak, scribed 1/4 S 13 B T,

bears S. 57° 00' W., 189 lks.

80.08 I fall 9 lks. E. of cor. to secs. 7, 12, 13 and 18, T.

22 S., Rs. 18 and 19 E., a sandstone 7 x 6 x 7 ins.

above ground, chiseled with 2 notches on the N. edge

and 4 notches on the S. edge, with mound of stone 2 ft.

base, 1-1/2 ft. high, W. of cor., from which:

A 17 in. oak, scribed T 22 S R 19 E S 7 B T,

bears N. 74° 45' E., 189 lks.

Return course S. 0° 04' E.

Beginning at cor. No. 1 and a C. C. on line bet. secs.

13 and 18.

At which point I chisel (+) on a stone 4 x 4 x 3 ins.

and deposit it 15 ins. in the ground; over which I set

a sandstone 25 x 12 x 5 ins., 15 ins. in the ground;

chiseled (+) at the point, C C on the E. face, and 1 -

H E S 289 on the SE. face; and raise a mound of stone

2 ft. base, 1-1/2 ft. high, E. of cor., from which:

A 5 in. black oak, scribed 1 H E S 289 + B T,

bears S. 15° 00' E., 8 lks.

A 5 in. black oak, scribed 1 H E S 289 + B T,

bears N. 27° 20' E., 37 lks.

1/4 cor. to secs. 13 and 18, heretofore described,

bears S. 0° 04' E., 15.01 chs.

Cor. to secs. 7, 12, 13 and 18, heretofore



CORONADO NATIONAL FOREST

STATE OF ARIZONA

Chains described, bears N. 0°04' W., 25.03 chs.  
 Cor. H-1 of the List survey, which is a granite  
 stone-6 x 5 x 4 ins. above ground, marked and  
 witnessed as described by the Forest Service,  
 bears West, 215 lks. I destroy all trace of  
 this list cor. H-1 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 16 ins. in the ground; over which I set a  
 sandstone 26 x 12 x 5 ins., 16 ins. in the ground,  
 chiseled (+) at the point and 2 - H.E.S 289 on the SW.  
 face; and raise a mound of stone 2 ft. base, 1-1/2 ft.  
 high, SW. of cor., from which:  
 A 20 in. white oak, scribed 2 H.E.S 289 + B T,  
 bears S. 59° 30' W., 63 lks.  
 A 7 in. black oak, scribed 2 H.E.S 289 + B T,  
 bears N. 17° 10' W., 68 lks.  
 Thence S. 0° 44' E.  
 Descend oak covered SW. slope 5 ft.  
 6.21 Arroyo, 40 lks. wide, banks 4 ft. high, course NW.  
 Ascend NE. slope 15 ft.  
 10.75 Edge of mesa bears NW. and SE. Continue over rolling



CORONADO NATIONAL FOREST

STATE OF ARIZONA

Chains mesa in oak brush.

25.71 To cor. No. 3. Identical with cor. H-3 of List 3-2200, which is a granite stone 7 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. 3 of this survey, I chisel (+) on a stone 4 x 4 x 2 ins., and deposit it 16 ins. in the ground; over which I set a quartzite stone 26 x 9 x 8 ins., 16 ins. in the ground, chiseled (+) at the point and 3 - H E S 289 on the SW. face; and raise a mound of stone 2 ft. base, 1-1/2 ft. high, SW. of cor., from which:

- A 12 in. black oak, scribed 3 H E S 289 + B T, bears N. 24° 00' E., 105 lks.
- A 12 in. black oak, scribed 3 H E S 289 + B T, bears S. 69° 00' E., 115 lks.

Thence N. 89° 55' E. Overrolling mesa in oak brush.

10.01 To cor. No. 4. Identical with cor. H-4 of List 3-2200, which is a granite stone 6 x 5 x 4 ins., above ground, marked and witnessed as described by the Forest Service. I destroy cor. H-4 and its witnesses; and for cor. No. 4 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 7 ins., 14 ins. in the ground; chiseled (+) at the point and 4 - H E S 289 on the SW. face; and raise a mound of stone 2 ft. base, 1-1/2 ft. high, SW. of cor., from which:

- A 5 in. black oak, scribed 4 H E S 289 + B T, bears S. 25° 30' W., 26 lks.



CORONADO NATIONAL FOREST

STATE OF ARIZONA

Chains A 10 in. white oak, scribed 4 H E S 289 + B T,  
 bears N. 46° 10' E., 82 lks.

Thence S. 0° 22' W.  
 Along rolling W. slope in oak brush. Fence near the  
 line.

9.34 To cor. No. 5.  
 Identical with cor. H-5 of List 3-2200, which is a  
 quartzite stone 4 x 4 x 4 ins. above ground, marked  
 and witnessed as described by the Forest Service. I  
 destroy cor. H-5 and its witnesses; and for cor. No.

5 of this survey, I chisel (+) on a stone 4 x 4 x 2  
 ins., and deposit it 16 ins. in the ground; over which  
 I set a quartzite stone 26 x 10 x 9 ins., 16 ins. in  
 the ground; chiseled (+) at the point and 5 - H E S 289  
 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 5 H E S 289 + B T,  
 bears N. 28° 10' W., 154 lks.

A 7 in. white oak, scribed 5 H E S 289 + B T,  
 bears N. 49° 20' W., 108 lks.

Thence West.

Descend rolling W. slope 15 ft. in oak brush.  
 0.01 Wire fence bears N. and S.

18.06 To cor. No. 6 and a C. C. on a line bet. secs. 13 and 18.  
 At which point I chisel (+) on a stone 4 x 4 x 3 ins.,  
 and deposit it 18 ins. in the ground; over which I set  
 a quartzite stone 28 x 12 x 10 ins., 18 ins. in the  
 ground; chiseled (+) at the point, C C on the E. face,  
 and 6 - H E S 289 on the NE. face; and raise a mound  
 of stone 2 ft. base, 1-1/2 ft. high, E. of cor., from



CORONADO NATIONAL FOREST

STATE OF ARIZONA

Chains which: A 14 in. white oak, scribed 6 H E S 289 + B T, bears S. 75° 00' W., 82 lks.

A 10 in. white oak, scribed 6 H E S 289 + B T, bears N. 8° 30' W., 83 lks.

Cor. H-6 of the list survey, which is a quartzite stone 7 x 5 x 3 ins. above ground, marked and witnessed as described by the Forest Service, bears W. 231 lks. from cor. No. 6 of this survey.

I destroy all trace of this list cor. Cor. to Secs. 13, 18, 19 & 24, heretofore described, bears S. 0° 4' E. 20.02 chs.

Thence N. 0° 04' W.

Over mesa in oak brush.

8.25 Ranch road bears NW. and SE.

14.20 Leave brush, bears NE. and SW. Continue in open.

20.02 The 1/4 cor. to secs. 13 and 18, heretofore described.

32.10 Leave open ground and enter oak brush, bears NW. and SE.

33.57 Fence bears WNW. and ESE.

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

AREA

Total area - - - - - 37.50 acres

IMPROVEMENTS.

A frame dwelling, 14 x 10 ft., the long side extending N. and S. and the NE. cor. of which bears S. 68° 00' W. 3.75 chs. from cor. No. 4 of this survey.

Estimated value ----- \$100.00

A well 4 ft. in dia. and 10 ft. deep, the center of which bears S. 57° 12' W., 5.40 chs. from cor. No. 4 of this survey.

Estimated value ----- \$100.00



CORONADO NATIONAL FOREST

STATE OF ARIZONA

Chains Approximately 1-1/2 mile of wire fencing.

Estimated value ----- \$150.00

Approximately 3 acres of cultivated land.

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DESCRIPTION.

This claim is situated on the W. slope of the Huachuca Mountains at an elevation of approximately 5300 ft. and is chiefly valuable for stock raising.

There is no timber in this immediate section. A majority of this claim supports a stand of oak.

Sufficient water for domestic purposes and for stock is obtained from the well. None is available for irrigation.

This section is not reported to be mineralized and no townsites, mining, coal or oil claims are known to have been located in this vicinity.

Canille post office is 4 miles by road in a NW. direction. Elgin railway station is 16 miles by road in a Northerly direction.

CONFLICTS AND ADJOINING CLAIMS

There are no conflicts. The legal subdivision portion of H. E. No. 022642 adjoins this survey on the W. and is described as follows: S/2 SE/4 NE/4, NW/4 SE/4 NE/4, S/2 NE/4 SE/4 NE/4, E/2 SW/4 NE/4, NE/4 SE/4, N/2 N/2 SE/4 SE/4, NE/4 NW/4 SE/4, Sec. 13, T. 22 S., R. 18 E., containing 115 acres.



CORONADO NATIONAL FOREST

STATE OF ARIZONA

Chains	Course	Dist.	W	E	S	N
1-2	East	7.86		7.86		
2-3	S. 0° 44' E.	25.71			25.71	0.33
3-4	N. 89° 55' E.	10.01			10.01	
4-5	S. 0° 22' W.	9.34			9.34	0.06
5-6	West	18.06				18.06
6-1	N. 0° 04' W.	35.03	35.03			0.04
		106.01	35.04	35.05	18.20	18.16

Error in Lat. and Dep.      0.01      0.04

Closing error 1:2571.

Survey completed December 19, 1914.

*Walter G. Farley*  
Surveyor - Forest Service.

CONFLICTS AND ADJOINING CLAIMS

There are no conflicts. The legal subdivision portion of H. E. No. 93823 adjoins this survey on the W. and is described as follows:

1/2 W/4 SE/4 NE/4, 1/2 SW/4 NE/4, NE/4 SE/4, 1/2 W/4 SE/4, NE/4, 1/2 SW/4 NE/4, NE/4 SE/4, 1/2 W/4 SE/4, NE/4, 1/2 SW/4 NE/4, NE/4 SE/4, 1/2 W/4 SE/4, NE/4, 1/2 SW/4 NE/4, NE/4 SE/4.



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. 289, STATE OF ARIZONA - Coronado. Forest A Terry.

8-2349

CORNERS.	BEARING.	DISTANCE.	LATITUDES.		DEPARTURES.		DOUBLE M. D.	N. AREAS.	S. AREAS.
			NORTH.	SOUTH.	EAST.	WEST.			
1-2	East	7.86			7 86 ✓		7 86 ✓		
2-3	S. 0° 44' E.	25.71	25 71 ✓		0 33 ✓		16 04 ✓	412 39 ✓	
3-4	N. 89° 55' E.	10.01	0 01 ✓		10 01		26 36 ✓	0 26	
4-5	S. 0° 22' W.	9.34	9 34 ✓		0 06 ✓		36 30 ✓	339 04 ✓	
5-6	West	18.06			18 06 ✓		18 17 ✓		
6-1	N. 0° 04' W.	35.03	35 03 ✓		0 04 ✓		0 05 ✓	1 25	
		106.01	35 04	35 05	18 20	18 16		1 51	751 43
			35 05	35 05	18 18	18 18		1 51	1 51
								20 ) 749 92	
	Closing error 1:2571						Area -	37 50 acres	

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T.A.



APPROVAL

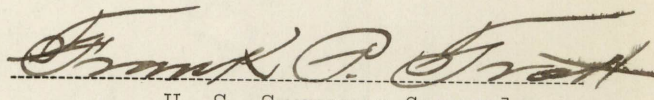
Office of the United States Surveyor General,

Phoenix, Arizona, May 4, 1917

The foregoing field notes of Homestead Entry Survey No.

289

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.

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Frank P. Trott.  
U. S. Surveyor General.