

U. S. DEPARTMENT OF AGRICULTURE
FOREST SERVICE

FIELD NOTES

OF

HOMESTEAD ENTRY SURVEY NO. 302

SITUATED IN THE **CORONADO** NATIONAL FOREST

ADMINISTRATIVE DISTRICT NO. 3

In Section 12 , un surveyed, Township 24 S., Range 19 E.,
In Section 13 , unsurveyed, Township 24 S., Range 19 E.,
In Section 14 , unsurveyed, Township 24 S., Range 19 E.

of the

Gila and Salt River Base and Meridian.

State of

ARIZONA.

Applicant for listing **P. J. Hand,**
Residence **Parker Canyon, Arizona.**
Application No. **87** , dated **February 8** , 1908
List No. **3-828** , dated **November 4** , 1910

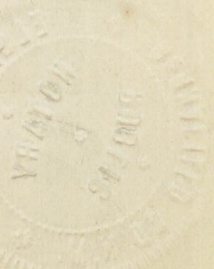
Applicant for survey **P. J. Hand,**
Residence **Parker Canyon, Arizona.**
H. E. No. **014357** , dated **June 29** , 1911,
Land District **Phoenix, Arizona.**

Survey executed by **R. P. A. Johnson, Surveyor - Draftsman,**
[Forest Service Title.]
Under special instructions dated **October 17** , 19 **14**
Survey commenced **March 4** , 19 **15**
Survey completed **March 10** , 19 **15**
Under Acts of **June 11, 1906 and June 30, 1914.**

15

JUN 29 1917

NOV 1 1915



OATH OF ASSISTANTS

We hereby certify that we assisted **R. P. A. Johnson,**
Surveyor - Draftsman in surveying all those
[Forest Service Title.]

parts or portions of Homestead Entry Survey No. **302**, in the State
of **Arizona**, which are represented in the following field notes
as having been surveyed by him and under his direction; and that said
survey has been in all respects, to the best of our knowledge and
belief, well and faithfully surveyed, and the corner monuments estab-
lished, according to the instructions furnished 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 oaths to
Assistants; hence, they were
taken by the Surveyor.**

W. J. Dohererty Chairman.

E. J. Bacchly Chairman.

Subscribed and sworn to before me this *twenty six* day of
March, 19 *15*.

R. P. A. Johnson
Surveyor Draftsman

OATH OF SURVEYOR

I, **R. P. A. Johnson, Surveyor - Draftsman,**
[Forest Service Title.]

do solemnly swear that, in strict conformity with the special instruc-
tions of the United States Surveyor General for **Arizona**, dated
October 17, 19 **14**, and the laws of the United States, I have
well, faithfully, and truly, in my own proper person, surveyed a tract
of land **embraced in**

List, No. **3-828**, dated **November 4,** 19 **10**, for
Patent, under the Act of **June 11**, 19 **06**,
the same to be known as Homestead Entry Survey No. **302**,
situated within the **Coronado** National Forest, in
un surveyed Section **12**, Township **24 S.**, Range **19 E.**, and
un surveyed Section **13**, Township **24 S.**, Range **19 E.** and
unsurveyed Section **14**, Township **24 S.**, Range **19 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 perpetuated in strict accordance with the stated special
instructions, and in the specific manner described in the field notes,
and that the following are the original field notes of such survey.

R. P. A. Johnson
Surveyor Draftsman
[Forest Service Title.]

Subscribed and sworn to before me this *Twenty-eighth* day of
September, 19 *15*.

Elmer E. Meyer
Notary Public



HOMESTEAD ENTRY SURVEY NO. 302

CORONADO NATIONAL FOREST

STATE OF ARIZONA.

Chains Applicant for listing, P. J. Hand; Application No. 87, dated February 8, 1908; List No. 3-828, dated November 4, 1910; H. E. 014357 made in the Phoenix Land Office on June 29, 1911 by Peter J. Hand.

Surveyed under special instructions from the Surveyor General for Arizona, dated October 17, 1914 and designated as Homestead Entry Survey No. 302.

Situated in unsurveyed T. 24 S., R. 19 E. in what will probably be, when surveyed, secs. 12, 13 and 14 G. & S. R. B. and M., Coronado National Forest, Arizona.

Surveyed under the Acts of June 11, 1906 and June 30, 1914.

Survey commenced March 4, 1915, and executed with a Buff and Buff transit.

I test the adjustments of the transit and make necessary corrections.

All measurements were made directly on the slope with a 500 link steel tape and a Philadelphia stadia rod.

The slope angles were determined with a clinometer.

March 4, 1915.

At 9h. 37.1m. p.m., 1.m.t., I observe Polaris, telescope direct, at cor. No. 3 and mark the line thus determined by a tack in a stake set 5.00 chs. N. of my station. Latitude 31° 21' 38" N., Long. 110° 22' 20" W.

Astron. 1.m.t. obsn. March 4, 1915 9h. 35.1m.

Astron. 1.m.t. U.C. Pol. March 4, 1915 2h. 43.1m.

6h. 52.0m.

Long. correction 1.2m.

Hour angle Pol. at obsn. 6h. 53.2m.

Azimuth of Polaris 1° 17' 42" W.

HOMESTEAD ENTRY SURVEY NO. MC 302

CORONADO NATIONAL FOREST

STATE OF ARIZONA.

Chains At 9h. 52.3m., p.m., l.m.t.; I again observe Polaris, telescope reversed, at cor. No. 3 and mark the line thus determined by a tack in a stake set 5 chs. N. of my station.

Astron. l.m.t. obsn. March 4, 1915 9h. 52.3m.

Astron. l.m.t. U.C. Pol. March 4, 1915 2h. 43.1m. ✓

7h. 09.2m. ✓

Long. correction 1.2m.

Hour angle Pol. at obsn. 7h. 10.4m. ✓

Azimuth of Polaris 1° 16' W. ✓

March 5, 1915.

I turn off the azimuth of Polaris, 1° 17' 42" and 1° 16' respectively to east from my lines of sight of last night's observations, and set a tack in a stake 5 chs. N. of my station. These two observations agree within a few seconds.

At 9h. 15m., a.m., l.m.t., I observe the altitude of the sun for azimuth at cor. No. 3. The reading on the meridian established by Polaris observations of last night is set at zero and sun was observed in upper left and lower right quadrants of the field. My watch is set for local mean time.

Telescope	Time.	Horizontal Angle.	Vertical Angle.
direct	9h. 14m. 24s.	56° 18'	33° 24'
reversed	9h. 15m. 42s.	56° 38'	33° 06' 30"

This defines a meridian which differs 00° 00' 12" from meridian established by polaris observation. From the mean of these all the courses of this survey were deflected.

Long. correction

Hour angle Pol. at obsn.

Azimuth of Polaris 1° 17' 42" W.

CORONADO NATIONAL FOREST

STATE OF ARIZONA

Chains	<p>March 8, 1915.</p> <p>Beginning at cor. No. 1.</p> <p>Identical with cor. H-1 of the list survey which is identical with cor. H-2 of the list survey which is a sandstone 10 x 8 x 10 ins. above ground marked and a sandstone 11x 7 x 10 ins. above ground marked and witnessed as described by the Forest Service. I destroy all trace of this list cor. in place of which I set a diorite stone 36 x 8 x 6 ins., 20 ins. in the ground, over a small stone marked with a cross, chiseled 1 - H E S 302 on NW. face and raise a mound of stone 3 ft. base, 2 ft. high, NW. of cor. from which:</p> <p>A black oak 12 ins. dia. bears N. 57° 02' E. 99 lks. dist., scribed 1 H E S 302 B T.</p> <p>A black oak. 12 ins. dia. bears S. 4° 37' E. 152 lks. dist., scribed 1 H E S 302 B T.</p>
	<p>Monument No. 104 on the International Boundary line, which is an iron monument 6 ft. high, marked 104 on the West face bears S. 32° 19' E. 88.70 chs. dist., traverse for which appears at the end of these notes.</p> <p>Latitude 31° 20' 45" N. Long. 110° 22' 15" W. from Hereford Quadrangle, U. S. G. S.</p> <p>Mag. Var. at 9 a.m., 13° 12' E. Mean Mag. Var. 13° 09' E.</p> <p>March 8, 1915.</p>
	<p>March 9, 1915.</p> <p>Thence N. 79° 32' W.</p> <p>Descend 40 ft. to creek.</p> <p>1.57 Base of hill.</p> <p>3.50 Bear Creek, 30 lks. wide, banks 3 ft. high, course S. Ascend 115 ft. to cor.</p>

Chains

19.94 To cor. No. 2.

Identical with cor. H-1 of the list survey which is a sandstone 10 x 6 x 10 ins. above ground marked and witnessed as described by the Forest Service. I destroy all trace of this list cor. in place of which I set a sandstone 24 x 10 x 6 ins., 14 ins. in the ground, over a small stone marked with a cross, chiseled 2 - H E S 302 on NE. face and raise a mound of stone 3 ft. base, 2 ft. high NE. of cor. from which:

A black oak 16 ins. dia. bears S. 20° 41' W.

149 lks. dist. scribed 2 H E S 302 B T.

A black oak 12 ins. dia. bears S. 12° 15' E.

129 lks. dist. scribed 2 H E S 302 B T.

Thence N. 10° 52' E.

Over level mesa.

4.00 Fence cor.; fence bears SE. Continue along fence.

34.70 Edge mesa. Descend 35 ft. to cor.

72.50 Fence cor. Fence bears E. Leave fence.

76.73 To cor. No. 3.

Identical with cor. H-4 of the list survey which is a malpais stone 7 x 7 x 10 ins. above ground, marked and witnessed as described by the Forest Service. I destroy all trace of this list cor. in place of which I set a granite stone 24 x 16 x 8 ins., 14 ins. in the ground over a small stone marked with a cross, chiseled 3 - H E S 302 on SE. face and raise a mound of stone 3 ft. base, 2 ft. high, SE. of cor. from which:

A white oak 20 ins. dia. bears S. 15° 33' W.

414 lks. dist., scribed 3 H E S 302 B T.

CORONADO NATIONAL FOREST

STATE OF ARIZONA.

Chains

No other bearings available. Pits impracticable.

Cor. No. 1 H. E. S. 301, which is a sandstone
8 x 8 x 10 ins. above ground chiseled
H. E. S. 301 on SW. face with pits and mound
bears N. 43° 18' W. 44.39 chs. dist. by traverse
which appears at end of these notes.

Thence S. 89° 36' E.

Descend 60 ft. to creek.

- .90 Road bears S. 70° E., N. 70° N.
- 15.50 Road bears N. 16° E. and S. 16° W.
- 15.60 Fence bears S. 16° W. and N. 16° E.
- 16.00 Edge bank above creek.
- 16.40 Irrigation ditch, 10 lks., banks 8 ft. high, course SSW.
- 16.70 Bear Creek, 20 lks. wide, course S. Ascend 30 ft. to

cor.

18.30 Fence cor. - Fence bears NW. and ENE.

20.24 Cor. H-3 of the list survey which is a porphyry stone
10 x 8 x 10 ins. above ground, marked and witnessed
as described by Forest Service. I destroy all trace
of this list cor.

21.09 To cor. No. 4.

At this point, I set a sandstone 24 x 8 x 8 ins., 14
ins. in the ground over a small stone marked with a
cross, chiseled 4 - H E S 302 on SW. face and raise
a mound of stone 3 ft. base, 2 ft. high, SW. of cor.

from which:

A white oak 13 ins. dia. bears S. 18° 12' E. 166
lks. dist., scribed 4 H E S 302 B T.

A black oak 15 ins. dia. bears N. 31° 25' W. 159
lks. dist., scribed 4 H E S 302 B T.

HOMESTEAD ENTRY SURVEY NO. 302

CORONADO NATIONAL FOREST

STATE OF ARIZONA.

Chains
 Cor. to Ts. 23 and 24 S., Rs. 19 and 20 E.,
 which is a porphyry stone, 10 x 10 x 8 ins.
 above ground, marked and witnessed as described
 by Surveyor General bears N. 22° 55' E. 117.89
 chs. dist., traverse for which appears at end
 of these notes.

March 9, 1915.

March 10, 1915.
 Thence S. 11° 26' W. 70° N. 90 Road bears S. 70° N. 90.

Over breaks of mesa 20 to 40 ft. deep.

26.50 Edge of mesa. Descend 10 ft. along mesa to cor.
 80.20 Fence bears E. and WNW.
 80.42 To cor. No. 1, the place of beginning.

AREA.

Total area-----159.73 acres.

IMPROVEMENTS.

The improvements made upon and for the benefit of this
 claim and belonging to the claimant consist of the
 following:

An adobe dwelling 24 x 21 ft., the long side of which
 bears N. and S. and SW. cor. of which bears S. 61° E.
 15.15 chs. dist. from cor. No. 3.

Value-----\$600.00

Chicken house 12 x 12 ft., the NW. cor. of which bears
 S. 68° 30' E. 14.75 chs. dist. from cor. No. 3.

Value-----\$25.00

Frame shed 12 x 12 ft. the NW. cor. of which bears S.
 60° 04' E. 15.15 chs. dist. from cor. No. 3.

Value-----\$75.00

CORONADO NATIONAL FOREST

STATE OF ARIZONA.

Chains

An adobe shed 24 x 9 ft., the long side of which bears N. and S. and the NW. cor. of which bears S. 57° 46' E. 15.23 chs. dist. from cor. No. 3.

Value-----\$125.00

A well 25 ft. deep, center of which bears S. 63° 20' E. 16.20 chs. dist. from cor. No. 3.

Value-----\$75.00

There is approximately 2-1/4 miles of wire fence.

Value-----\$250.00

DESCRIPTION.

This claim is situated on Bear Creek at foot of Huachuca Mountains, about 1 mile from International Boundary line.

The land slopes to south with E. and W. exposures. There is no merchantable timber on this tract. Timber consists of scattered black and white oak whose chief value is for fire wood, and posts.

Bear Creek furnishes sufficient water for domestic use and can be used for irrigation a portion of the year. The tract consists of narrow strip of bottom land along

creek, with mesas to east and west with a medium gradual slope rising from mesa on west.

The soil in bottom is rich dark loam, alluvial deposit and produces good crops with irrigation. Bench land is sandy loam, tillable and has produced crops. Slopes

are rocky, non-agricultural, and furnish fair grazing.

There is approximately 20 acres in cultivation.

Parker Canyon, the nearest post-office, is 12 miles west and Nogales, the nearest railroad point is 45 miles west. Both are reached by good wagon road.

I saw no indications of mineral upon this claim.

CORONADO NATIONAL FOREST

STATE OF ARIZONA.

Chains

CONFLICTS AND ADJOINING CLAIMS.

There are no conflicting or adjoining claims.

TRAVERSES.

Cor.	Course.	Dist.	N.	S.	E.	W.	
1-2	N. 79° 32' W.	19.94	3.62			19.61	
2-3	N. 10° 52' E.	76.73	75.35		14.47		
3-4	S. 89° 36' E.	21.09		0.15	21.09		
4-1	S. 11° 26' W.	80.42		78.82		15.94	
			198.18	78.97	78.97	35.56	35.55
				<u>78.97</u>		<u>35.55</u>	
Error in lat. and dep.				0.00		0.01	

Closing error 1:19818.

TIE.

Cor. No. 1 to International Monument No. 104.

Course.	Dist.	N.	S.	E.	W.	
S. 39° 08' E.	30.71		23.82	19.38		
S. 36° 45' E.	56.76		45.48	33.96		
S. 46° 18' W.	8.19		5.66		5.92	
			0.00	74.96	53.34	5.92
				0.00	5.92	
				<u>74.96</u>	<u>47.42</u>	

Resultant course S. 32° 19' E. 88.70.

Cor. No. 3, H. E. S. 302 to Cor. No. 1 H. E. S. 301.

Course.	Dist.	N.	S.	E.	W.	
N. 83° 17' W.	22.49	2.63			22.34	
N. 77° 59' W.	12.49	2.60			12.22	
N. 8° 39' E.	27.39	27.08		4.12		
			32.31	00.00	4.12	34.56
				0.00		4.12
			<u>32.31</u>			<u>30.44</u>

Resultant course N. 43° 18' W. 44.39 chs.

63113 77568
59832 80125
72297 69088
53460
84511
99814 11696
97809 20220
15040 98883
68582 72777

CORONADO NATIONAL FOREST
STATE OF ARIZONA.

Chains

Cor. No. 4 H. E. S. 302 to Cor. to Ts. 23 and 24,
Rs. 19 and 20 E.

Course.	Dist.	N.	S.	E.	W.
N. 89° 36' W.	21.09	.15			21.09
N. 43° 18' W.	44.39	32.31			30.44
N. 76° 20' W.	28.27	6.68			27.47
N. 17° 04' W.	25.58	24.45			7.51
N. 37° 20' E.	22.40	17.81		13.58	
N. 55° 14' E.	33.46	19.08		27.49	
N. 50° 57' E.	61.55	38.78		47.80	
S. 35° 29' E.	45.19		36.80	26.23	
N. 64° 04' E.	10.51	4.60		9.45	
N. 79° 05' E.	8.00	1.52		7.86	
		145.38	36.80	132.41	86.51
		36.80		86.51	
		<u>108.58</u>		<u>45.90</u>	

Resultant course N. 22° 55' E. 117.89.

Survey completed March 10, 1915.

R. A. Johnson

Surveyor - Draftsman.

Chains

11.00						
20.40						
27.47						
7.51						
	13.58		17.81	32.40		
	17.49		19.08	33.46		
	47.80		38.78	61.58		
	23.23	36.80		45.19		
	3.43		4.60	10.51		
	7.86		1.32	9.00		

13.58
17.49
47.80

13.58
36.80
108.58

Resistant course N. 32° 55' E. 117.89.
Survey completed March 10, 1915.

Surveyor - [Signature]

HOMESTEAD ENTRY SURVEY NO. 302

CORONADO NATIONAL FOREST

STATE OF ARIZONA.

Chains

COMPUTATIONS.

Azimuth from Solar March 5, 1915.

Latitude 31° 21' 38" N. Long. 110° 22' 20" W. Elevation 5350.

Observations.

Telescope	Time	Horizontal angle.	Vertical Angle.
Direct	9h. 14m. 24s.	56° 18'	33° 24'
Reversed	9h. 15m. 42s.	56° 38'	33° 06' 30"
	2) 18h. 30m. 06s.	112° 56'	66° 30' 30"
	9h. 15m. 03s.	56° 28'	33° 15' 15"
	4h. 38m. 31s.		1' 15" refraction
	4h. 36m. 32s.		33° 14' 00"

Dec. 6° 16' 54" S. ✓

$$\text{Cos. } Q = \frac{-\sin. 6^\circ 16' 54''}{\cos. 31^\circ 21' 38'' \times \cos. 33^\circ 14'}$$

$$\tan. 31^\circ 21' 38'' \times \tan. 33^\circ 14'$$

log. sin. 6° 16' 54" = 9.039081 ✓

log. cos. 31° 21' 28" = 9.931425 ✓

log. cos. 33° 14' = 9.922438 ✓
9.185218 = -Log. .15319 ✓

log. tan. 31° 21' 28" = 9.784896 ✓

log. tan. 33° 14' = 9.816382 ✓
9.601278 = -Log. .39928 ✓
Cos. Q = .55247 ✓

Q = 56° 28' 12" ✓

Bearing of object N. 00° 00' 12" W.

APPROVAL

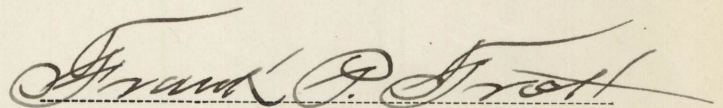
Office of the United States Surveyor General,

Phoenix, Arizona, August 8 , 1917

The foregoing field notes of Homestead Entry Survey No.

302

executed by R. P. A. Johnson, Surveyor-Draftsman,
under his special instructions, dated [Forest Service Title.]
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.