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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

, dated November 4 List No. 3-828 , 1910

Applicant for survey P. J. Hand,

Parker Canyon, Arizona. Residence

, 1911, H. E. No. 014357 , dated June 29

Land District Phoenix, Arizona.

Survey executed by R. P. A. Johnson, Surveyor - Draftsman, [Forest Service Title.]

Under special instructions dated October 17 , 19 14

, 19 15 Survey commenced March 4

, 19 15 Survey completed March 10

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

JUN 29. 7977

NOK 1 1875

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 established, according to the instructions furnished by the United States Surveyor General for Arizona.

Note: It would have been very inconvenient and expensive to appear before an officer to administer oaths to Assistants; hence, they were taken by the Surveyor.

Of Delacely Chainman.

Subscribed and sworn to before me this

day of

March, 19 15.

OATH OF SURVEYOR

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

do solemnly swear that, in strict conformity with the special instructions 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,, 1910 , for Patent under the Act of June 11 , 1906 the same to be known as Homestead Entry Survey No. 302 situated within the Coronado National Forest, in 12 , Township 24 S. , Range 19 E. , Township 24 S. , Range 19 E. un surveyed Section , and un surveyed Section 13 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. Spannoon
Surveyor Die ftsman
[Forest Service Title.]

Subscribed and sworn to before me this Twenty-eight day of

September, 19/5.

8-2349

notory Bublic

My Commission supires April 20, 1918.

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.

March 5, 1915.

Surveyed under the Acts of June 11, 1906 and June 30, 1914. To senil ym morî fase of ylevijosquer '31 '1 to there

> Survey commenced March 4, 1915, and executed with a doisats ym to . N . sdo d 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.

required is set as one one orez te tes at their

March 4, 1915.

nort "SI

At 9h. 37.1m., op.m., l.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. his defines a meridian which 110° 22' 20" W.

Astron. 1.m.t. obsn. March 4, 1915 9h. 35.lm. Astron. 1.m.t. U.C. Pol. March 4,1915 2h. 43.lm. 6h. 52.0m. Long. correction 1.2m.

Hour angle Pol. at obsn. Azimuth of Polaris 1º 17' 42" W. 6h. 53.2m.

CORONADO NATIONAL FOREST

STATE OF ARIZONA.

G. & S. R. B. and M., Coronado National Forest,

end desig-

Ariz-

Chains At 9h. 52.3m., p.m., 1.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 Office on June 29, 1911 by Peter J. Hand.

ntakatin Astron. 1.m.t. obsn. March 4, 1915 9h. 52.3m. Astron. 1.m.t. U.C. Pol. March 4, 1915 2h. 43.1m. Long. correction 1.2m.

Hour angle Pol. at obsn. 7h. 10.4m.

Azimuth of Polaris 1º 16' W.

March 5, 1915.

.mS . 00 . Mo

I turn off the azimuth of Polaris, 1° 17' 42" and 1º 16' respectively to east from my lines of sight of last night's observations, and set a tack in a stake amenced March 4, 1915, and exe 5 chs. N. of my station. These two observations agree and Buff transit. within a few seconds. - eagen exem bas tisast ent to standard substantial I

At 9h. 15m., a.m., 1.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 Time. Angle. Telescope ot, at cor. 56° 181 9h. 14m. 24s. direct 56° 38' reversed 9h. 15m. 42s. 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 Letron. 1.m.t. U.O. Pol. · deflected.

Long. correction

Asimuth of Polaris 1º 17' 42" W.

Hour sagle Pol. at obsa.

19.94 To cor. No. 2.

CORONADO NATIONAL FOREST

STATE OF ARIZONA.

Chains

vortaeb I

March 8, 1915.

Beginning at cor. No. 1.

Identical with cor. H-2 of the list survey which is a sandstone 11x 7 x 10 ins. above ground marked and witnessed as described by the Forest Service. a tea I destroy all trace of this list cor. in place of which ound, over 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:

A black oak 12 ins. dia. bears N. 57° 02' E. 99 lks. dist., scribed 1 H E S 302 B T. A black oak. 12 ins. dia. bears S. 4° 37' E.

152 lks. dist., scribed 1 H E S 302 B T.

Monument No. 104 on the International Boundary line, which is an iron monument 6 ft. high, . sone 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. some Too some Od. SY

Latitude 31° 20' 45" N. Long. 110° 22' 15" W. from B at do Hereford Quadrangle, U.S. G. S. Mil W Isoitnebl

Mag. Var. at 9 a.m., 13° 12' E. Mean Mag. Var. 13° 09' E. .cleln.8 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., 1.2161. enote sting Thence N. 79 32 W. w bedrem enote liams a revo

Descend 40 ft. to creek. . He no 308 8 H - 6

Base of hill. 100 to . 25 . ngid . ti S . osed . JI & 1.57

Bear Creek, 30 lks. wide, banks 3 ft. high, course S. 3.50 Ascend 115 ft. to cor. .. 1815 . MIL MIN

HOMESTEAD ENTRY SURVEY NO. 302

CORONADO NATIONAL FOREST

STATE OF ARIZONA.

Chains

19.94 To cor. No. 2.

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:

March 8, 1915.

Beginning at cor. No. 1.

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.

line, which is an iron monument of the origin,

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. 33 "Oll . gnol . W "d4 '09 \$18 ebstital

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.

CORONADO NATIONAL FOREST

STATE OF ARIZONA.

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	n	0	7	7	~

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

bears N. 43° 18' W. 44.39 chs. dist. by traverse which appears at end of these notes.

Merch 10, 1915.

Fence bears E. and WWW.

Thence S. 89° 36' E.

Descend 60 ft. to creek.

.90 Road bears S. 70° E., N. 70° N. 132 LL .2 soned

15.50 Road bears N. 16° E. and S. 16° W. 10 Bloom Tevo

16.00 Edge bank above creek.

16.40 Irrigation ditch, 10 1ks., banks 8 ft. high, course SSW.

16.70 Bear Creek, 20 lks. wide, course S. Ascend 30 ft. to

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.

00.878----

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.

A white oak 13 ins. dia. bears S. 18° 12' E. 166

A black oak 15 ins. dia. bears N. 31° 25' W. 159

-arriot

CHOMESTEAD ENTRY SURVEY NO. 302

CORONADO NATIONAL FOREST

STATE OF ARIZONA.

Chains	idosamiCor. to Ts. 23 and 24 S., Rs. 19 and 20 E.,
	observe which is a porphyry stone 10 x 10 x 8 ins.
	be above ground, marked and witnessed as described
	box box arby Surveyor General bears N. 22° 55' E. 117.89
	t we talk chs. dist., traverse for which appears at end
earevs.	.ast of these notes. to exceed a foldw
	March 9, 1915.
	Tanance S. 89° 36' F.
	March 10, 1915
	Thence S. 11° 26' W.M °OV .M.M °OV .E street broff Oc.
	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. noiteming OA. 31
03	
	AREA.
	Total area
	20.24 Cor. H-3 of the list survey which is a porphyry sto
	seently bas bedrem IMPROVEMENTS eni Of x 8 x of
93.81	The improvements made upon and for the benefit of this
	claim and belonging to the claimant consist of the
	following: .A .ON . TOO OT @O.IS
	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. seide , second
.10	Value
	Chicken house 12 x 12 ft., the NW. cor. of which bears
166	S. 68° 30' E. 14.75 chs. dist. from cor. No. 3.
	Value\$25.00
159	Frame shed 12 x 12 ft. the NW. cor. of which bears S.
	60° 04' E. 15.15 chs. dist. from car. No. 3.
	Value\$75.00

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CORONADO NATIONAL FOREST

STATE OF ARIZONA.

C	h	a.	i	n	5	

0.18 81.09

78.97 35.56

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. GOL: L TOTTE BALBOLO

This claim is situated on Bear Creek at foot of Huachuca

Mountains, about 1 mile from International Boundary

1001.000 instance of 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.

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CORONADO NATIONAL FOREST

STATE OF ARIZONA.

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Chains			CONF	LICTS A	ND ADJOIN	NING CLA	IMS.	
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HOMESTEAD ENTRY SURVEY NO. 302.

CORONADO NATIONAL FOREST

STATE OF ARIZONA.

Chains				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	5	21.09
	N. 43° 18' W.	44.39 32.33		30.44
	N. 76° 20' W.	28.27 6.68	3	27.47
	N. 17° 04' W.	25.58 24.45	5	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 1.58	7.86	
		145.38 36.80 108.58		86.51

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

Survey completed March 10, 1915.

Surveyor - Draftsman.

Form 85 Sheet No. 2

HOMESTEAD ENTRY SURVEY NO.

MATIONAL FOREST

STATE OF

			STA	TE OF	STATE OF				
	Chains							citains	
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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. Angle.

Direct 9h. 14m. 24s. 56° 18'

33° 241

Reversed

9h. 15m. 42s. 56° 38° 2)18h. 30m. 06s. 112° 56° 9h. 15m. 03s. 56° 28°

33° 06 ' 30" 66° 30' 30" 33° 15 ' 15"

4h. 38m. 31s. 4h. 36m. 32s.

1' 15" refraction
33° 14' 00"

Dec. 6° 16' 54" S.

- sin. 6° 16' 54" - cos. 31° 21' 38" x cos. 33° 14' Cos. Q =

tan. 31° 21' 38" x tan. 33° 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.

HOMESTEAD ENTRY SURVEY NO.

NATIONAL FOREST

STATE OF ONIMA TO BTATE

	Chains	.Suo ITATUTOO	Chains	
		Asimath from Solar March 5, 1916.		
	-879	istitude 51° 21' 38" N. Long. 110° 22' 20" W. E1		
		tion 5350.		
		.enoijevreedO		
	Is.	Telescope Time Horizontal angle. Angle		
		Direct 9h. 14m. 24s. 56° 18' 35° 24'		
setion	80% 80° 15° refr	Reversed 9h. 15m. 42s. 56° 38' 85° 06' 20' 85' 16' 50' 9h. 15m. 05s. 112° 56' 88' 85' 15' 85' 16' 88' 85' 16' 88' 85' 16' 88' 85' 16' 88' 85' 16' 85'		
		Dec. 6° 16' 84" 8.		
		Cos. 0 = - sin. 6° 16' 54" - cos. 31° 81' 38" x cos. 33° 14'		
		tan. 31° 21' 38" x tan. 35° 14'		
		log. sin. 6° 16! 54" = 9.039081		
		log. cos. 31° 21° 28° = 9.931425		
		log. cos. 38° 14' - 9.922488 9.185218 - Log. 15519		
		log. ten. 51° 21' 28" = 9.784896		
		log. tem. 83° 14' = 9.816382 9.601278 = -log39928 cos. c = 0.85247	4	
	e e	91 183 786 = 2		
		Bearing of object N. 00° 00' 18" W.		

Form 85. Sheet No. 3.—Revised Feb., 1915.

DIRECTIONS.—1. Carry out calculations to two decimals only.

2. In balancing Latitudes and Departures do not obliterate or change the footing of the original figures, but put below them the corrected figure or figures above in red ink. Do not change the footing of the lines.

The corrections for balancing fallings should be proportional to the lengths of the lines.

The corrections 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. 502

8-2349

ARIZONA.

STATE OF

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, [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.

8-2349