Form 85 heet No. 1 sed July 1, 1914.)

U. S. DEPARTMENT OF AGRICULTURE

FOREST SERVICE

Mar. 1- 1917

430

FIELD NOTES

JUNE 2 1911

HH 24 1918

OF

HOMESTEAD ENTRY SURVEY NO. 421

SITUATED IN THE

TONTO

NATIONAL FOREST

ADMINISTRATIVE DISTRICT NO. 3.

In Section 28 , unsurveyed, Township 11 No. Range 11 E.

of the

Gila and Salt River Base and Meridian.

State of

ARIZONA

Applicant for listing A. J. Franklin,

Residence

Payson, Arizona

Application No. 213 , dated February 10 , 1910

List No. 3-631

, dated

August 17 , 1910

Applicant for survey A. J. Franklin,

Residence

Payson, Arizona

H. E. No. 014464 Office

, dated May 29

, 1911

Land District

Phoenix, Arizona

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

Under special instructions dated

Survey commenced

April 25 , 1916

September 23 19 15

Survey completed

April 27 , 1916

Under Acts of June 11, 1906 and March 4, 1915.

[OVER]

We hereby certify that we assisted P. Ashmon
in surveying all those
[Forest Service Title.] parts or portions of Homestead Entry Survey No. 42/, in the State of 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 Augona Note: It would have been very expensive and inconvenient to appear before an officer to administer oaths to Assistants; hence, they were taken by the Surveyor. Subscribed and sworn to before me this to OATH OF SURVEYOR I. P. F. Showson Dunger Draftsman [Forest Service Title.] do solemnly swear that, in strict conformity with the special instructions of the United States Surveyor General for dated , dated Schumber 23, 19 15, and the laws of the United States, I have well, faithfully, and truly, in my own proper person, surveyed a tract of land embraced the same to be known as Homestead Entry Survey No. 421, 1906, situated within the National Forest, in National Forest, in Range // , and surveyed Section - - - , Township - - - , Range - - - - , of the Sela and Palt Chin Breen meridian, Anna 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. DISTRICT OF COLUMBIA CITY OF WASHINGTON Subscribed and sworn to before me this Secon EXERCEN mind Commission expires June 20, 1918.

OATH OF ASSISTANTS

Chains Applicant for listing, A. J. Franklin; Application No. 213, dated February 10, 1910; List No. 3-631, dated August 17, 1910; H. E. 014464, made in the Phoenix Land Office on May 29, 1911 by A. J. Franklin. List 3-631 in this case was made by legal subdivisions in a Township which was never legally surveyed. No attempt was made to locate original list lines on ground. This survey is in the nature of a cooperative survey and will be used as a basis for amendatory ton I listing and entry. A thin bear and no appleant Township 11 N., R. 11 E. was surveyed under Contract No. 116 by U. S. Deputy Surveyors, Campbell and Oakes, dated April 18, 1904. The East boundary and subdivisions were finally rejected on January 8, 1909. The retracement of portions of South and West boundaries under this contract were accepted on same date. Surveyed under special instructions from the Surveyor General for Arizona, dated September 23, 1915 and designated as Homestead Entry Survey No. 421. Situated in what will probably be, when surveyed, Sec.

Meridian, Tonto National Forest, Arizona.

Surveyed under the Acts of June 11, 1906 and March 4,

1915.

28, T. 11 N., R. 11 E., Gila and Salt River Base and

Survey commenced April 25, 1916 and executed with a Buff and Buff transit, equipped with Smith solar attachment.

Studiosu, districted but that resol

At 88. 100 . S. M. . 1.0.1 . 1 set 027 34 42 on ba

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

All distances are horizontal and were reduced from measurements made directly on the slope with a 500 link

-2349

August 17, 1910; H. B. 01446M, made in the the

TONTO NATIONAL FOREST

STATE OF ARIZONA.

Chains |

. 2.

link steel tape. The slope angles were determined with a clinometer.

April 26, 1916.

At 8h. 30m. a.m., l.m.t., I set off 34° 16' on Lat. arc, 13° 34' N. on decl. arc, and determine a meridian with the solar at cor. No. 8, hereinafter described. I observe the altitude of the sun for azimuth at cor. No. 8 of this survey, hereinafter described. The reading on the meridian determined with solar is set at zero and sun was observed in the lower left and upper right quadrants of the field. My watch is set for local mean time. 'Lat. 34° 16' N., Long. 111° 13' 11" W., from special instructions from the Surveyor General and later verified.

Time Horizontal Vertical Telescope Angle Angle 40° 38' 30" Direct 8h. 32m. 56s. 77° 41' 30" Reverse 8h. 33m. 55s. 78° 01' 00" 40° 30' 00" Difference in meridians 0° 01' 47".

I again observe the altitude of the sun for azimuth at cor. No. 8. The reading on the meridian determined with the solar is set at zero and the sun was observed in the lower left and upper right quadrants of the field. no bas ofer , de frage becomes yeven

Telescope Time Horizontal Vertical Angle Angle

Direct 8h. 43m. 26s. 76° 30' 30" 41° 58' 00" Reverse 8h. 44m. 53s. 76° 57' 00" 41° 43' 00" att and la sun Difference in meridians 0° 01' 21" 00 to 6 cros We become grew due lasticated are decrete to

RETRACEMENT

April 25, 1916.

At 8h. 10m. a.m., 1.m.t, I set off 34° 16' on Lat. arc,

Chains

13° 14-1/2' N. on decl. arc, and determine a meridian with the solar at cor. No. 2 H. E. S. 419 which is a granite stone 12 x 5 x 10 ins. above ground, marked 2 - H E S 419 on NE. face, with pits 24 x 24 x 12 ins. crosswise on claim lines E. and N. of cor., 3-1/2 ft. dist. and mound of earth 4 ft. base, 2 ft. high NE. Same Be of acor. d . Tos . Des Ald to tamin. sail & first

Thence North, . II . 1 10 No and Tallock to

On a random line along line 2-3 of H. E. S. 419.

19.90 Cor. No. 3 H. E. S. 419.

A granite stone 9 x 6 x 10 ins. above ground, marked 3 - H. E. S 419 on SE. face.

True line is North, 19.90 chs.

Thence East.

On a random along line 3-4 H. E. S. 419.

19.98

Fall 2 1ks. N. of cor. No. 4 H. E. S. 419, a sandstone 8 x 6 x 10 ins. above ground, marked 4- H E S 419 on SE. face, with mound of stone 2 ft. base, 1-1/2 ft. high SE. of cor.

True line is N. 89° 56' W., 19.98 chs.

At this cor. I set off 13° 17' N. on decl. arc, and at 12h. 02m. 03s. 1.m.t. observe the sun on the meridian. The resulting Lat. is 34° 16'.

Thence North.

On a random line along line 4-5 H. E. S. 419.

of store oft. bate,

39.85 Cor. No. 5 H. E. S. 419, a granite stone 10 x 9 x 10 ins. above ground, marked 5 - H E S 419 on SE. face, with mound of stone 2 ft. base, 1-1/2 ft. high SE. of cor.

True line is North, 39.85 chs.

TIE

April 27, 1916.

Prue

· SETT

Chains

At 2h. 10m. p.m., 1.m.t., I set off 34° 16' on Lat. arc, 13° 57' N. on decl. arc, and determine a meridian with the solar at cor. No. 1, hereinafter desal al A Ma scribed of main , south AM no 814 and al

Thence South. S. F. Bank Flats and Marketones

On random line for a tie.

30.11

Fall 9 lks. West of 1/4 sec. cor. bet. secs. 28 and 33 of rejected survey of T. 11 N., R. 11 E. In accordance with special instructions from the Surveyor General, I destroy all trace of this rejected cor.

110.34

1/4 sec. cor. of accepted survey bet. secs. 33 and 4, Ts. 10 and 11 N., R. 11 E., which is a granite stone 8 x 5 x 6 ins. above ground, marked and witnessed as described by the Surveyor General.

Return course North, 110.34 chs. dist.

BOUNDARIES OF CLAIM

To burner all in , one i.

April 26, 1916.

Beginning at cor. No. 1.

Also cor. No. 1, H. E. S. 422.

Deposit broken glass 14 ins. in the ground, over which set a conglomerate stone 24 x 8 x 5 ins., chiseled + for the point and 1 - H E S 421 on NE. face and 1 - H E S 422 on NW. face; and raise a mound of stone 3 ft. base, 2 ft. high NE. of cor., On a render line close line Neb H. whence:

> A juniper, 34 ins. dia., bears N. 82° 40' E., 42 1ks. dist., scribed 1 H E S 421 + B T. A juniper, 6 ins. dia., bears N. 6° W., 160 1ks. dist., scribed 1 H E S 421 + B T. A juniper, 14 ins. dia., bears S. 4° 30' E., 65 lks. dist., scribed 1 H R S 422 + B T. A juniper, 8 ins. dia., bears N. 85° 45' W.,

TONTO NATIONAL FOREST

Chains	55 lks. dist., scribed 1 H E S. 422 + B T.
	Lat. 34° 15' 53" N., Long. 111° 13' 43" W., from special
	instructions from the Surveyor General and later veri-
1	fied. Food, bear B aread .Deck Ob. A.
17 37	Mag. Var. at 8:00 a.m., 14° 20' E. Mean Mag. Var. 14°
	17' E
	At 7h. 40m. a.m., 1.m.t., I set off 34° 16' on Lat. arc,
# 150	13° 33' N. on decl. arc, and determine a meridian with
I SECOND	the solar at cor. No. 1. and a data and a gen
FEE	Thence North. Som Ind to K.H to Sim July 1947
1900	Descend 5 ft. to arroyo, in open.
0.28	Forest Service telephone line, bears NW. and SE.
0.86	Road, bears NW. and SE
1.90	Arroyo, 20 lks. wide, 3 ft. deep, course SE.
	Ascend 20 ft. to cor. in brush.
2.96	Fence, bears E. and W
10.00	To cor. No. 2
	Also cor. No. 12 H. E. S. 422.
	Deposit broken glass 10 ins. in the ground over which
	set a granite stone 20 x 12 x 6 ins. (no longer stone
	available) chiseled + for the point , 2 - H E S 421
	on SE. face and 12 - H E S 422 on NW. face; dig pits
	24 x 24 x 12 ins. crosswise on claim lines 7 ft. dist.
市土	and raise a mound of earth 4 ft. base , 2 ft. high,
	3-1/2 ft. dist. SE. of cor., whence:
<u>Zite</u>	An oak, 6 ins. dia., bears N. 13° 15' E.,
	47 lks. dist., scribed 2 H E S 421 + B T.
	A juniper, 6 ins. dia., bears N. 83° 50' E.,
	42 lks. dist., scribed 2 H E S 421 + B T.
	An oak, 5 ins. dia., bears N. 60° 15' W.,
	53 lks. dist., scribed 12 H E S 422 + B T.
	An oak, 6 ins. dia., bears N. 11° W., 46 lks.
LAMIC SE	dist., scribed 12 H E S 422 + B T.

Chains	Thence S. 89° 57' E
Catonga	Over level land in brush.
-5.00	Arroyo, 20 lks. wide, 10 ft. deep, course S.
12.40	Road, bears S. and NE.
12.85	Fence, bears N. and S. T., DO: The state of the sta
12.91	To cor. No. 3.
, ora . t	Also cor. No. 11 H. E. S. 422
etre in	Deposit broken glass, 14 ins. in the ground, over which
	set a granite stone 24 x 8 x 8 ins., chiseled + for
	the point and 3 - H E S 421 on SE. face and 11 - H E S
	422 on NW. face; and raise a mound of stone 2 ft. base
	1-1/2 ft. high SE. of cor., whence:
	A juniper, 22 ins. dia., bears N. 55° 15' W.,
	103 lks. dist., scribed 3 H E S 421 + B T.
	A juniper, 10 ins. dia., bears N. 1° 45' E.,
	122 lks. dist., scribed 3 H E S 421 + B T.
	A juniper, 18 ins. dia., bears N. 48° 45' W.,
	96 lks. dist., scribed 11 H E S 422 + B T.
	A juniper, 8 ins. dia., bears N. 31° 15' E.,
ores -	228 lks. dist., scribed 11 H E S 422 + B T.
LEO I	- To the point of the point , L - H B
	Thence North.
0.28	Fence, bears NE. and SW.
0.57	Road, bears NE. and SW. Descend 30 ft. to arroyo, in
	brush. : sagedy ,. too id telb . tf a/[-0]
3.00	'Arroyo, 10 lks. wide, 1 ft. deep, course SW. Ascend
-	30 ft. in brush to cor:
10.00	
	Also cor. No. 10 H. E. S. 422.
	Deposit broken glass 14 ins. in the ground, over which
. 7	set a granite stone 24 x 0 x 0 ins., chiberen
. 22	the point and 4 - H E S 421 on SE. face and 10 - H E
	422 on NW. face; and raise a mound of stone 2 ft. bas

Chains	1-1/2 ft. high SE. of cor., whence:
	A juniper, 6 ins. dia., bears S. 30° W.,
L.	100 lks. dist., scribed 4 H E S 421 + B T.
	An oak, 12 ins. dia., bears S. 82° 30' E.,
	44 lks. dist., scribed 4 H E S 421 + B T.
	A juniper, 24 ins. dia., bears N. 4° 15' E.,
	74 lks. dist., scribed 10 H. E S 422 + B T.
No. of	A pinon, 14 ins. dia., bears N. 81° 45' W.,
007.0	152 lks. dist., scribed 10 H E S 422 + B T.
-	Purity with tapen and no report and a residence of
	.Thence East. anii miaro no salassors .ami 21 .
0	Descend 30 ft. in brush to arroyo.
3.10	Arroyo, 10 lks. wide, 1 ft. deep, course SW. Ascend
	'a 30 ft, to cor and a regimes
5.35	Road, bears NE. and SW
6.00	Fence, bears NE. and SW. Enter field.
7.00	To cor. No. 5. poultos . Jelo . and da
12 4	Also cor. No. 9 H E S. 422.
1	Deposit broken glass 14 ins. in the ground, over
20 20	which set a granite stone 24 x 12 x 6 ins., chiseled
F/E015	+ for the point, 5 - H E S 421 on SE. face and 9 -
- Land	H E S 422 on NW. face; and raise a mound of stone 2
	ft. base, 1-1/2 ft. high SE. of cor., whence:
	A juniper, 8 ins. dia., bears N. 38° W., 85 lks.
MATE	dist., scribed 9 H E S 422 - 5 H E S 421 +
1	B. T. ord he overth of .Fr DA Branger
	No other witness available. Pits impracticable.
	April 26, 1916.
limade	TO.OS LIVOYO, IN INC. WARE, I IN FOREST
	April 27, 1916.

At 7h. 40m. a.m., l.m.t., I set off 34° 16' on Lat. arc, 13° 52-1/2' N. on decl. arc and determine a meridian with the solar at cor. No. 5.

10

	OIRE OF ARTOURS
Chains	Thence North
0.50	Fence, bears NE. and SW. Leave field.
1.10	Road, bears NE. and SW. Descend 40 ft. in brush to
	arroyo a stand als at al
5.90	Arroyo, 10 lks. wide, 1 ft. deep, course SW. Ascend
g. =	40 ft. in brush to cor.
11.50	To cor. No. 6. bediese
, ,	Deposit broken glass 14 ins. in the ground, over which
3 4.	set a sandstone 24 x 10 x 8 ins., chiseled + for the
	point and 6 - H E S 421 on SE. face; dig pits 24 x 24
	x 12 ins. crosswise on claim lines 7 ft. dist. and
	raise a mound of earth 4 ft. base, 2 ft. high SE. of
Биор	cor., whence:
	A juniper, 4 ins. dia., bears N. 26° 29' E.,
	39 lks. dist., scribed 6 H E S 421 + B T.
	A juniper, 6 ins. dia., bears S. 75° 07' E.,.
	43 lks. dist., scribed 6 H E S 421 + B T.
	Cor. No. 8; H. E. S. 422; a granite stone 12 x
300	6 x 10 ins. above ground, marked + on top
holoch	
- 8	stone 2 ft. base, 1-1/2 ft. high, SW. of cor.
	bears North, 8.50 chs. dist. by direct meas-
	urement.
	A runiper, 8 ins. dis., bears 5. 38 m.,
	Thence East.
	Descend 40 ft. to arroyo in brush.
4.80	the other witness available. Pire land
6.05	Fence, bears NW. and SE.
10.00	Arrovo 10 1ks. wide. 1 ft. deep, course SW. Ascend
	40 ft. in brush to cor.
18.80	Fence hears NE. and SW.
10.80	Road hears ENE. and WSW.
20.02	To Cor. No. 7.

Chains

On line 4-5 of H. E. S. 419.

Deposit a broken glass 14 ins. in the ground, over which set a granite stone 28 x 10 x 8 ins., chiseled + for the point and 7 - H E S 421 on SW. face; and raise a mound of stone 3 ft. base, 2 ft. high SW. of cor., whence:

A juniper, 10 ins. dia., bears S. 37° 30' E.,

40 lks. dist., scribed 7 H E S 421 + B T.

A pinon, 7 ins. dia., bears S. 62° 45' W.,

81 lks. dist., scribed 7 H E S 421 + B T.

Cor. No. 5 H. E. S. 419, heretofore described, bears

North, 18.35 chs.

Thence South.

Along line 5-4 of H. E. S. 419, over level land in brush.

Demonit broken glass locket.

12.40 Leave brush, bears NW. and SE. Enter open flat.

21.50 To cor. No. 8.

Identical with cor. No. 4 of H. E. S. 419, which is a sandstone 8 x 6 x 10 ins. above ground, marked and witnessed as heretofore described. I mark same stone 8 - H E S 421 on NW. face for cor. No. 8 of this survey, whence:

A juniper, 18 ins. dia., bears N. 56° 50' E.,
157 lks. dist., scribed 8 H E S 421 - 4 H E S
419 + B T.

A juniper, 16 ins. dia., bears N. 67° 30' W., 234 lks. dist., scribed 8 H E S 421 - 4 H E S 419 + B T.

Thence N. 89° 56' W.

Along line 4-3 of H. E. S. 419, over level open land.

1.50 Enter brush.

245

Chains 6.30	Wire fence, bears N. and S. Leave brush.
9.30	Enter cultivated field.
	To cor. No. 9.
	Identical with cor. No. 3 of H. E. S. 419, which is a
	granite stone 9 x 6 x 10 ins. above ground, marked and
	witnessed as heretofore described. I mark same stone
	9 - H E S 421 on NW. face. No witnesses available,
	therefore dig pits 24 x 24 x 12 ins., crosswise on
	claim lines 3 ft. dist. and raise a mound of earth
7	4 ft. base, 2 ft. high, 3-1/2 ft. dist. NW. of cor.
	Thence South.
	Along line 3-2 of H. E. S. 419, over level cultivated
ul b	land of room . SI. S S B. to A-B on It would
10.00	To cor. No. 10.
	On line 3-2 of H. E. S. 419.
	Deposit broken glass 10 ins. in the ground, over which
4-45	set a granite stone 20 x 8 x 4 ins. (no longer stone
	2 ft. high NW. of cor., whence:
	A juniper, 16 ins. dia., bears S. 85° 34' W.,
(4) 7	149 lks. dist., scribed 10 H E S 421 + B T.
	A juniper, 10 ins. dia., bears S. 28° 13' E.,
	164 lks. dist., scribed 10 H E S 421 + B T.
2 11.11	bears South, 9.90 chs. dist.
	Thence West.
	Over level open land.
0.20	Leave cultivated land, bears NNW. and SSE. Enter timber.
0.30	Fence, bears NNW. and SSE.

	STATE OF ARIZONA.	
Chains 2.50	Leave timber, bears N. and S. Enter open.	of special
10.00	Leave open, enter timber, bears N. and S. Descend	
	15 ft. to arroyo.	
Gar T	Fence, bears NW. and SE.	
	Fork in road, road bears NW., NE. and SE.	
18.15	. Too mort : Jaib . sie Ob. C . W 'al '08 . W arnod	
	timber, bears NE. and SW. Enter open and ascend 5 ft. to cor.	
19.20	This house lelongs to it. Plane.	
20.00	AUGA NE TOT CONTENT TO THE SUBSTITUTE OF SUB	
20.00	. To ool. No. 1, tab place the region of the	
	AREA	
	Total Area 70.05 acres.	
	elevation of approximately 5500 it. The land	
	IMPROVEMENTS	
tī.	The improvements made upon and for the benefit of this	
radmit	claim, and belonging to the claimant, consist of the	
	following:	
Boo	An L shaped frame house, 50 x 40 ft., the long sides	
.noldes	of which bear NW. and SE. and the SE. cor. of which	
· Crasso	bears S. 71° 50' W., 11.10 chs. dist. from cor.	
	Lane & mort beginson at ear alreamon tol to 1 500100	
+141100	A frame smoke house, 16 x 12 ft., the long sides of which bear NW. and SE. and the SE. cor. of which	
	bears S. 72° 45' W., 10.45 chs. dist. from cor.	
	No. 7.	
	A frame barn, 22 x 40 ft., the long side of which bears	
alt n	N. and S. and the NE. cor. of which bears S. 78° 30'	
Jest s	W., 7.70 chs. dist. from cor: No. 7.	
	value -10 SSL -0 300.00	
Solin	A frame hen house 12 x 12 ft., sides extending in	

cardinal directions, the NE. cor. of which bears

TONTO NATIONAL FOREST STATE OF ARIZONA.

Chains

S. 77° 45' W., 9.45 chs. dist. from cor. No. 7. Value - - - - - - \$ 30.00 mano rota

Approximately 1 mile of wire fence.

Value - - - - - - - - - \$125.00

There is a frame dwelling 30 x 24 ft., the long sides of which bear N. and S., and the SE. cor. of which 97103 bears N. 80° 15' W., 2.40 chs. dist. from cor. No. timber, boars Ms. and Sa. Luter open an 10.

This house belongs to Mr. Blake.

Value - - - - - - - - - 250.00 To cor. No. 1, the place of beginning.

DESCRIPTION

This claim lies on the Tonto Creek Watershed at an elevation of approximately 5500 ft. The land is a flat bench cut by small arroyo in Western portion. The timber consist of oak, juniper and pinon, a heavy stand of which lies along N. and W. boundaries . It is used for fire wood and posts. There is no timber of commercial value on the claim.

The soil is a sandy loam fairly fertile and of good depth. It is producing fair crops without irrigation. There is no water for irrigation and none is necessary. Water for domestic use is obtained from a small seep near the house.

There are approximately 30 acres which have been culti-. vated. ale co.of .. 'da 'ar . a steed

I saw no indications of mineral upon the claim.

CONFLICTS AND ADJOINING CLAIMS There are no conflicts. This claim is joined on the East by H. E. S. 419 of Rufus Brown and on the West by-H. E. S. 422 of Floyd Lockwood. Payson, Arizona, the nearest post office, is 8 miles

osrdinal directions, the Mi. cur. of which bear

8-2345

NO DISTORT

TONTO NATIONAL FOREST

13.

STATE OF ARIZONA.

Chains	dis	tant, and Globe,	Arizona	a, the nes	arest ra	ilroad	
		nt, is 110 miles					
			TRAVERS	3E			
	Cor.	Course	Dist.	N	S	E	W
	1-2	North	10.00	10.00			
	2-3	S.89°57' E.	12.91		0.01	12.91	
	3-4	North	10.00	10.00			
	4-5	East	7.00			7.00	
	5-6	North	11.50	11.50			
	6-7	East	20.02			20.02	
	7-8	South	21.50		21.50		
	8-9	N.89°56' W.	19.98	0.02			19.98
	9-10	South	10.00		10.00	,	
	10-1		20.00	31.52	31.51	39.93	20.00
	Error	in Lat. and Dep		31.51		_	39.93
	Closin	ng error, 1:2807	. ,				
	Survey completed April 27, 1916.						
					10		
			1	PPX	Alman		

Surveyor Draftsman

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TONTO NATIONAL FOREST

STATE OF ARIZONA.

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Direct Solar at cor. No. 8, H. E. S. 421, April 26, 1916.
Chains
        Latitude 34° 16' N. Long. 111° 13' 11" W. Elev. 5500 ft.
Horizontal Vertical Pos.
        Telescope
                        Time
                                         Angle
                                                         Angle
          Direct 8h. 43m. 26s. 76° 30' 30" 41° 58'
          Reversed 8h. 44m. 53s. 76° 57' 00" 41° 43'
                                       76° 43' 45"/ 41° 50° 30"
                     8h. 44m. 09s.
                                                                 53"
                                                 ref.
                                                       410 491 3711
                              Decl. 13° 33' 14" N.
        Cos. Q. = sin. 13° 33' 14"

cos. 34° 16' x cos. 41° 49' 37"

tan. 34° 16' x tan. 41° 49' 37"
        log. sin. = 13° 35' 14" = 9.369883' | 10g. cos. = 34° 16' | = 9.917204' | | 9.872251 | | 9.580428 | = log.
                                                            .38056
                                    - 9.833339
        log. tan. = 34° 16'
        log. tan. = 41° 49' 37" - 9.951799
                                       9.785138 = log.
                                                              .60973
                                          Cos. Q.=
                                                              .22917
                                               Q. = 76° 45' 06"
        Difference from meridian determined by solar attachment
          0° 01' 21".
          Direct Solar at cor. No. 8, H. E. S. 421, April 26, 1916.
        Latitude 34° 16' N. Long. 111° 13' 11" W. Elev. 5500 ft.
        Telescope Time
                                        Horizontal
                                                         Vertical
                                                                      Pos.
                                         Angle
                                                           Angle
                                                                        Sun.
          Direct
                     8h. 32m. 56s.
                                       77° 41' 30" 40° 38' 30"
         Reversed 8h. 33m. 55s. 78° 01'
8h. 33m. 26s. 77° 51' 15"
                                                        40° 30'
                                                       40° 34' 15"
                                                                 55" √
                                                       40° 33' 20"
                              Decl. 13° 33'N.
                     sin. 13° 33'
                  cos. 34° 16' x cos. 40° 33' 20"
tan. 34° 16' x tan. 40° 33' 20"
       log. sin. = 13° 33' = 9.369761 
log. cos. = 34° 16' = 9.917204
       log. cos. = 34° 16' = 9.917204
log. cos. = 40° 33' 20" = 9.880686
9.571871 = log. .37314
       log. tan. = 34° 16' = 9.833339 / log. tan. 40° 33' 20" = 9.932351
                                        9.932351
9.765690 = log. .58303
                                    =
                                               Q. = .20989 Q. = 77° 53' 02" /
                                          Cos. Q. =
```

Difference in meridian 0° 01' 47"

717 76 S. AREAS. 2118 1718 299 70 0 1401 Surveyors are required to use the Standard Field Tables issued by the G. L. O. 20 16 40 16 200 717 258 AREAS. 4 58 H Z Arizons. Carry out calculations to two decimals only.

Carry out calculations to two decimals only.

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 figure or figures above in red ink.

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

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 Standar. Only three copies of this tabulation are necessary, for the District Office, the Surveyor General, and the Commissioner. D. 00 92 87 95 66 8 84 8 16 98 M. DOUBLE 25 33 33 69 64 59 39 19 STATE OF 98 000 98 96 WEST. 19 500 39 39 DEPARTURES. TABLING AND CALCULATIONS OF HOMESTEAD ENTRY SURVEY NO. 421 918 00 000 90 93 6 EAST. 39 12 -20 0 33 50 00 51 10 SOUTH. 10 0 31 m N LATITUDES. 52 020 52 00 50 8 NORTH. 11 0 10 10 63 5 DISTANCE. 19.98 20.02 21.50 12,91 10.00 11.50 10.00 7.00 10.00 20.00 142.91 P 199 68 89 0 57 BEARING. North South North North South East East West N W Shoet No. 3.—Revised Feb., 1915. 9-10 6-7 2-3 4-5 5-6 7-8 8-9 3-4 10-1 DIRECTIONS.—1. æ. 4; CORNERS 8-2349

13

86

80

20

Acres.

05

03

APPROVAL

Office of the United States Surveyor General,

Phoenix, Arizona JUL 19 1917 , 191

The foregoing field notes of Homestead Entry Survey No.

421

executed by R.P. a. Johnson, Surveyor. Draftsman under his special instructions, dated Mystember 23, 1915, 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.