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# U. S. DEPARTMENT OF AGRICULTURE

FOREST SERVICE

# FIELD NOTES

OCT.-21916

OF

HOMESTEAD ENTRY SURVEY NO. 423

SITUATED IN THE

TONTO

NATIONAL FOREST

ADMINISTRATIVE DISTRICT NO. 3

In Section 1 , unsurveyed, Township 11 N., Range 10 E. In Section 2 , unsurveyed, Township 11 N., Range 10 E. In Section 11 , unsurveyed, Township 11 N., Range 10 E. In Section 12 , unsurveyed, Township 11 N., Range 10 E.

of the

Gila and Salt River Base and Meridian.

State of

ARIZONA

Applicant for listing S. Musgrave,

Residence

Payson, Arizona

Application No. 245

, dated

December 19 , 1910

List No. 3-1390

, dated

July 12

, 1911

Applicant for survey

James W. Powers.

Residence

Payson, Arizona

H. E. No. 024555

, dated

March 9

, 19 14 V

Land District

Phoenix, Arizona

Survey executed by R. P. A. Johnson,

Surveyor - Draftsman
[Forest Service Title:]

Under special instructions dated

September 23 , 1915

Survey commenced

December 10 , 1915

Survey completed

December 10 , 1915

Under Acts of

June 11, 1906 and March 4, 1915

OATH OF ASSISTANTS
We hereby certify that we assisted R. P. Johnson in surveying all those
Surveying all those [Forest Service Title.]
parts or portions of Homestead Entry Survey No. 423, 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 estab-
lished, according to the instructions furnished by the United States
Surveyor General for Anisona.
Note: It would have been will Barety, Chainman
very expensive and incon-
venient to appear before an Chainman Chainman
to Assistants; hence, they
were taken by the Surveyor.
Subscribed and sworn to before me this fifteenth day of
December, 1915.
1 Holmson
Survey or Shaftsman
OATH OF SURVEYOR
I, P. P. Johnson, Surveyor Fragtoman
I, J. Janus VI., [Forest Service Title.]
do solemnly swear that, in strict conformity with the special instruc-
tions of the United States Surveyor General for Augora, dated September 23, 19/5, and the laws of the United States, I have
well, faithfully, and truly, in my own proper person, surveyed a tract
of land on braced in
No. 3-1390, dated July 12, 1911, for , under the Act of June 11, 1906, the same to be known as Homestead Entry Survey No. 423
the same to be known as Homestead Entry Survey No. 423
situated within the National Forest, in
unsurveyed Section / , Township /// , Range /OE, and , Township /// , Range /OE,
unsurveyed Section 11, Downship 11 N., Range 10 E
unsurveyed Section 2, Township // N., Range /OE, unsurveyed Section // Sownship // N., Range /OE unsurveyed Section /2, Sownship // N., Range /OE of the Ela and Dalt Run Basagneridian, August ona, 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.
and that the following are the original field in the
S. Shuson
X/ Xhah
[Forest Service Title.]
Subscribed and sworn to before me this 25th day of
march , 19/6
SEAL. Brotary Public.
SEAL. Protary Public

### STATE OF ARIZONA

Chains

Applicant for listing, S. Musgrave; Application No. 245, dated December 19, 1910; List. No. 3-1390, dated July 12, 1911; H. E. 024555, made in the Phoenix Land Office on March 9, 1914 by James W. Powers.

Surveyed under special instructions from the Surveyor

General for Arizona, dated September 23, 1915, and de
signated as Homestead Entry Survey No. 423.

Situated in unsurveyed T. 11 N., R. 10 E., in what will probably be, when surveyed, secs. 1, 2, 11 and 12, Gila and Salt River Base and Meridian, Tonto National Forest, Arizona.

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

Survey commenced December 10, 1915, and executed with a Buff and Buff transit No. 9700-6.

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. The slope angles were determined with a clinometer. Horizontal distances only appear in these notes.

December 10, 1915.

At 10h. 22m. a.m., 1.m.t., I observe the altitude of the sun for azimuth at cor. No. 4 of this survey. The reading on the reference object is set at zero and the sun was observed in the lower left and upper right quadrants of the field. My watch is set for local mean time.

Latitude 34° 19' 10" N., Long. 111° 17' 23" W., by ac-

Form 85. Sheet No. 2.

TONTO NATIONAL FOREST

### STATE OF ARIZONA

Chains' Telescope : Time . Horizontal Vertical Angle Angle

Direct 10h. 21m.: 22s. 21° 58' 30" 29° 37' 00"

Reversed 10h. 22m. 42s. 22° 14' 00" 29° 12' 00"

Bearing of reference object, N. 0° 18' 03" W.

At 2h. 43.9m. I again observe the altitude of the sun for azimuth at cor. No. 4. The reading on reference object is set at zero and the sun was observed in the upper left and lower right quadrants of the field.

Telescope Time Horizontal Vertical Angle

Direct 2h. 43m. 3ls. 46° 06' 00" 16° 43' 00"

Reversed 2h. 44m. 18s. 45° 41' 30" 17° 10' 00"

Bearing of reference object, N. 0° 17' 20" W.

The mean of these is N. 0° 17' 42" W., and to the corresponding meridian all the courses of this survey are referred.

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Beginning at cor. No. 1.

Identical with cor. H-1 of the list survey, which is a limestone 7 x 14 x 8 ins. above ground, marked and witnessed as described by the Forest Service. I destroy all trace of this cor. Deposit a stone 4 x 2 x 2 ins. marked with a +, 14 ins. in the ground, over which set a limestone 24 x 6 x 4 ins. chiseled + for the point and 1 - H E S 423 on NW. face; and raise a mound of stone 3 ft. base, 2 ft. high, NW. of cor., whence:

A juniper, 24 ins. dia., bears N. 65°

52' E., 261 lks. dist., blazed and scribed

1 H E S 423 + B T.

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# STATE OF ARIZONA

Chains

A juniper, 28 ins. dia., bears S. 30°

47' E., 195 lks. dist., blazed and scribed

1 H E S 423 + B T.

Cor. for secs. 1, 6, 7 and 12, T. 11 N.,

Rs. 10 and 11 E., which is a granite stone

8 x 6 x 6 ins. above ground, marked as de
scribed by the Surveyor General, (no wit
nesses) bears N. 77° 08' 16" E., 79.42 chs.,

by traverse which appears at the end of

these notes.

Lat. 34° 18' 57" N., Long. 111° 17' 22" W., by account from special instructions from the Surveyor General.

Mag. decl. at 10' a.m., 14° 30' E. Mean mag. decl., 14° 28' E.

Thence S. 87° 10' W.

Over open land, across flat, along edge of cultivated land. Fence on line.

- 12.59 Arroyo, 25 lks. wide, 2 ft. deep, course WSW. Cultivated land bears NNW. Leave cultivated land.
- 15.95 Arroyo, 40 lks. wide, 8 ft. deep, course S.
- 24.10 Arroyo, 26 lks. wide, 2 ft. deep, course SSW.
- 30.60 Cor. fence; fence bears N. Leave fence.
- 39.60 Arroyo, 50 lks. wide, 2 ft. deep, course SSE.

  Ascend 20 ft. along N. slope
- 60.34 To cor. No. 2.

Identical with cor. H-4 of the list survey, which is a limestone 14 x 2 x 8 ins. above ground, marked and witnessed as described by the Forest Service. I destroy all trace of this list cor. Deposit a stone 5 x 4 x 2 ins. marked with a +, 14 ins. in the ground, over which set a limestone 24 x 14 x 5 ins. chiseled

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STATE OF ARIZONA

Chains

+ for the point and 2 - H E S 423 on NE. face; and raise a mound of stone 3 ft. base, 2 ft. high, NE. of cor., whence:

A juniper, 6 ins. dia., bears N. 44°

O2' W., 11 lks. dist., blazed and scribed

2 H E S 423 + B T.

A juniper, 10 ins. dia., bears N. 13°

18' E., 9 lks. dist., blazed and scribed

2 H E S 423 + B T.

Thence N. 1° 53' W.

In scattered juniper. Descend 5 ft. to arroyo.

4.10 Arroyo, 10 lks. wide, 1 ft. deep, course East.

Ascend 45 ft. to cor.

17.50 Fence, bears E. and W.

19.97 To cor. No. 3.

Identical with cor. H-3 of the list survey, which is a limestone 8 x 3 x 6 ins. above ground, marked and witnessed as described by the Forest Service. I destroy all trace of this list cor. Deposit a stone 3 x 2 x 1 ins. marked with a +, 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 423 on SE. face; and raise a mound of stone 3 ft. base, 2 ft. high, SE. of cor., whence:

A juniper, 22 ins. dia., bears N. 40°

08' E., 37 lks. dist., blazed and scribed

3 H E S 423 + B T.

A juniper, 8 ins. dia., bears N. 23°
48' W., 53 lks. dist., blazed and scribed
3 H E S 423 + B T.

00.40

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	Chains	Thence N. 87° 08' E
		In open, descending 50 ft. to arroyo.
	4.60	Fence, bears, N. and S
	15.63	Arroyo, 20 lks. wide, 4 ft. deep, course SSE. Along
		gradual South slope.
	29.85	Cor. fence, fence bears S. and along line.
	39.05	Cor. cultivated land, bears S. Continue along edge
		cultivated land.
	42.50	Arroyo, 10 lks. wide, 1 ft. deep, course SSW. Ascend
		15 ft. to top ridge , and w. and oA . ovotre od. of
	47.00	Top ascent. Descend 15 ft. to arroyo.
		Arroyo, 30 lks. wide, 4 ft. deep, course SSW. Ascend
		10 ft. to cor.
	57.25	Cor. cultivated land, bears S. Leave cultivated land.
	60.03	To cor. No. 4.
		Identical with cor. H-2 of the list survey, which is
		a limestone 10 x 12 x 4 ins. above ground, marked and
	SILLI	witnessed as described by the Forest Service. I de-
	917	stroy all trace of this list cor. Deposit a stone
-		4 x 3 x 2 ins. marked with a +, 14 ins. in the ground.
	doi	
		bears I. and M., and the MM. cor. of which bears
		+ for the point and 4 - H E S 423 on SW. face; and
	00.	
-	BIRDU	cor., whence:
		An oak, 18 ins. dia., bears N. 56° 18' W.,
4		201 The diet blood and combad

An oak, 18 ins. dia., bears N. 56° 18' W.,

221 lks. dist., blazed and scribed

4 H E S 423 + BT.

A juniper, 18 ins. dia., bears S. 30° 48' E.,

123 lks. dist., blazed and scribed

4 H E S 423 + B T.

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# STATE OF ARIZONA

	DIZIE OF MILIONAL
 Chains	Thence S. 2° 45' E 180 % . M soned? Cantally
	Ascend 10 ft. to ridge. Fence on line.
2.35	Top ridge. Descend 25 ft. to arroyo. and . one Top.
9.00	Arroyo, 15 lks. wide, 2 ft. deep, course WSW. Ascend-
	20 ft. to ridge emala demos lambara
12.75	Top ridge. Descend 20 ft. to arroyo.
16,50	Cor. cultivated land, bears W. Continue along edge
	cultivated land.
16.70	Arroyo, 23 lks. wide, 2-1/2 ft. deep, course SW.
18.50	Arroyo, 40 lks. wide, 1 ft. deep, course W.
19.99	Cor. No. 1; the place of beginning.
oend	b2.85 Arroyo, 30 1ks. wade, 4 ft. deep, wourse SSW. As
	AREA .TOO OF .TT OF
. Brail	Total Area 120.25 acres.
	60.03 To don. No. 4.
el d	IMPROVEMENTS OF HOLY LESISTED I
5ns 5	The improvements made upon and for the benefit of this
-05 I	claim, and belonging to the claimant, consist of the
9110	following:
round,	A frame dwelling, 14 x 20 ft., the long side of which
eled	bears E. and W., and the NE. cor. of which bears S.
ba	t for the point and 4 - H & 3-425 on SW. face; o
lo .W	63° 02' W., 2.36 chs. dist. from cor. No. 4.
,	Value \$250.00
	A frame barn, 40 x 26 ft., the long side of which bears
	E. and W. and the NE. cor. of which bears S. 63°
	42' W., 4.30 chs. dist. from cor. No. 4.
	Value
	There is approximately 1-1/4 miles of Page and 10
	string wire fence.
	Value \$250.00

### STATE OF ARIZONA

#### Chains

#### DESCRIPTION

This tract is situated in Sunflower Flat, one and a half miles from East Verde River, and lies at an elevation of approximately 50,00 ft.

The claim is gently rolling mesa land, with a gradual general slope to South, and low ridges on all sides.

The soil is good and consists of a sandy loam, of fair depth, which is the weathering product of sand and limestone mixed with alluvial deposits. It produces good crops of corn and sorghum. The entire area is tillable with exception of about 10 acres on ridges at NW. and E.

The timber consists of scattered juniper and oak on

West end of claim. There is no merchantable timber.

Water for domestic and stock use is obtained from East

Verde River, 1-1/2 miles dist. There is no water

for irrigation.

There is approximately 25 acres in cultivation.

I saw no indication of mineral upon this claim.

#### CONFLICTS AND ADJOINING CLAIMS

There are no conflicting or adjoining claims.

Globe, the nearest railroad point, is 105 miles dist.

and Payson, the nearest post office, is 8 miles dist.,

both being reached by good wagon roads.

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Chains	TRAVERSE
B	Cor. no Course Wolf Dist. han the S took E and W
-Evele	1-2 S. 87° 10' W. 60.34 2.98 60.27
	2-3 N. 1° 53' W. 19.97 19.96 0.66
Ten	3-4 N. 87°, 08' E. 60.03 3.00 59.95
.sep	4-1 S. 2° 45' E. 19.99 19.97 0.96 160.93
fair	do ,meo.f where a lo state of 22.95 boom at five of 60.91
b a	Error in Lat. and Dep. 100 01 10 10 10 00 .02
Seoup	Closing error, 1:7190. If a driv beaks enorgenil
at a	Survey completed December 10, 1915.
893	tillable with exception of about 10 sores on rid
	if hea . The ja
n	The timber consists of seattered jumiper and oak o
mber.	West end of claim. There is no merchantable ti
Jasi	mort benisjon at ear foots bas objected to retain
Te	sew on at event . selb selin a Athy Johnson
	Surveyor - Draftsman
	There is approximately 25 acres in cultivation.
	I saw no indication of mineral upon this elaim.
*	
	ENTAID DUFFITOGGA GHA ETUICHNOS
	There are no conflicting or adjoining claims.
	Globe, the negreet rellroad point, is 105 miles di
nist.,	eal Payson, the mearest post office, is 8 miles
	both being reached by good wagon roads.

## STATE OF ARIZONA

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Direct Solar at Cor. No. 4, December 10, 1915.
Chains
          Lat. 34° 19' 10" N. Long. 111° 17' 23" W.
          Elevation 5000 ft.
                                            Horizontal
                                                               Vertical Pos.
                             Time
                                                                 Angle
          Telescope
                                               Angle
            Direct
Reversed
Mean

2h. 43m. 31s. 46° 06' 00" 16° 43' 00" °+
2h. 44m. 18s. 45° 41' 30" 17° 10' 00" +
2h. 43m. 54s. 45° 53' 45" 16° 56' 30"
7h. 25m. 10s.
10h. 09m. 04s.

16° 53' 50"
                                     Decl. 22° 53' 25" S.
          Q. = Sin. 22° 53' 25"

cos. 34° 19' 10" x cos. 16° 53' 50"
                      Tan. 34° 19' 10" x Tan. 16° 53' 50"
          log. sin. 22° 53' 25" = + 9.5899135
          log. cos. 34° 19' 10" = -9.9169311/
log. cos. 16° 53' 50" = -9.9808337/
                                            9.6921487 = log. .492208
          log. tan. 34° 19' 10" = log. tan. 16° 53' 50" =
                                          9.8341988
                                            9.4825453
                                          9.3167441 = log. .207369
                                                     Q. = .699577
Q. = 45° 36' 25"
                                               Cos. Q. =
          Bearing of reference object, N. 0° 17' 20" E.
                                             Horizontal
                                                               Vertical
          Telescope Time
                                              Angle
                                                                 Angle
                                                                             Sun
                                            21° 58' 30" 29° 37' 00"
                        10h. 21m. 22s.
             Reversed 10h. 22m. 42s. 22° 14' 00" 29° 12' 00"

Mean 10h. 22m. 02s. 22° 06' 15" 29° 24' 30"

4h. 34m. 50s. 01' 27"/

5h. 47m. 12s. 29° 23' 03"
                                                              29° 23' 03"
                                    Decl. 22° 52' 23" S.
          Cos. Q. =
                        - sin. 22° 52' 23"
cos. 34° 19' 10" x cos. 29° 23' 03"
                           tan. 34° 19' 10" x tan. 29° 23' 03".
          \log \cdot \sin \cdot 22^{\circ} 52' 23'' = + 9.5896042
          log. cos. 34° 19' 10" = - 9.9169311
          \log \cdot \cos \cdot 29^{\circ} 23' 03" = -9.9401924 = \log \cdot 540108
                                           9.7324807/
          log. tan. 34° 19' 10" = 9.8341988
          log. tan. 29° 23' 03" =
                                            9.7505910
                                            9.5847898 = log. __.384406
                                                      Q.= .924514
Q.= 22° 24' 18"/
                                                Cos. Q.=
          Bearing of reference object, N. 0° 18' 03" W.
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8-2349

NATIONAL FOREST

STATE OF

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Direct Bolar at Cor. No. 4. December 10, 191
Chains
               Let. 54° 19' 10' N. Lone. 111° 17' 28" W.
                                                   .di 0000 moldave.[3
. 003
      .8 *85 '85 '88
                                       . Los
               Sin. 22° 55' 85"

'008. 348'19' 10' 12' 603. 16' 18' 80' .

Tan. 34° 18' 10' x 1ss. 16' 85' 50'
                  log. dim. 28° 58' 58" = + 9.5699185
log. eog. 34° 19' 10" = - 9.9169311
log. eog. 16° 58' 50" = - 9.9803527
log. tam. 54° 19' 10" = 5.8541968
log. tam. 16° 58' 50" = 9.4859458
log. tam. 16° 58' 50" = 9.4859458
log. tam. 16° 58' 50" = 105.4859451 = 105.
                         = .9 .800
          0. = 45° 56' 85'
            Bearing of reference object, M. 0° 17' M. H.
· BOT
          Direct 10b. 21m. 229. 21° 58' 20" 29° 271 (
         Dodl. ER SE' SE' S.
         - ain. 22° 52' 23" - ain. cos. 34° 19' 10" x cos. 59° 23' 33" | cos. 54° 19' 10" x con. 22° 23' 05".
                           log. tan. 29° 28' 08" = 9.83419887

102. tan. 29° 28' 08" = 9.83478887 108. .384408
       78C 'AS 'SS - P
               Bearing of reference object, M. 0º 18',03" W.
```

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

2. In balancing Latitudes and Departures do not obliterate or change the original figures.

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.

3. In calculations of fallings take result to nearest link. In calculations of N. and S. areas drop all after second decimal.

4. Only three copies of this tabulation are necessary, for the District Office, the Surveyor General, and the Commissioner. 88 05 N. AREAS. 179 193 Arizona. DOUBLE M. D. 99 88 58 96 12 n 120 19 0 0平 STATE 150 99 93 WEST. 09 09 0 DEPARTURES. TABLING AND CALCULATIONS OF HOMESTEAD ENTRY SURVEY NO. 423 32 96 0 16 09 60 92 EAST. 96 200 90 97 19 2 cu LATITUDES. 96 00 96 NORTH. 13 10 22 60.03 160.33 60.34 16.61 19.99 DISTANCE. 7 Closing error, 1:7190 . 1 10. 53 45 90 BEARING. 870 870 50 N 8 3 2 Form 85. Sheet No. 3.—Revised Feb., 1915. 2-3 1-2 3-4 4-1 CORNERS. 8-2349

120 25 Acres.

2405 04 193

05

2598 09

64

2413

12

184

S. AREAS.

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

Drections.—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 footing in red ink.

Put 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.

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.

	BEARING.	DISTANCE.	LATITUDES.	UDES.	DEPARTURES		DOUBLE M. D.	N. AREAS.	S. AREAS.	
			North.	Воитн.	EAST.	West.				
	Tie	e for cor.	for secs.	1, 6, 7 and	11 .T. 11	N. Rs. 10	and 11 E.	to cor. No.	•	
Н	S. 68° 10' W.	5,13		1 91		4 76				
83	89°	cu		0 23		25 48				
2-3	83° 29		236 23							
3-4	750	13,32		5 37						
No.1	30° 12°	17.46				8 78				
			26 2		00 0	77 43				
						00 0				
						77 43				
				1						
san te	Resultant bearing. S.	140 081	16" W., 79.42	42 chs.						
					1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					
			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1							
					1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					
					1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					5
										7

#### APPROVAL

Office of the United States Surveyor General,

Phoenix, Arizona, June 19, 1917.

The foregoing field notes of Homestead Entry Survey No.

423

executed by R.P.A.Johnson, Surveyor-Draftsman

[Forest Service Title.]

under his special instructions, dated September 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.

3-2349