U. S. DEPARTMENT OF AGRICULTURE

FOREST SERVICE

AUG. 2-1917

MAI-21918

FIELD NOTES

OF

HOMESTEAD ENTRY SURVEY NO. 451

SITUATED IN THE

SITGREAVES

NATIONAL FOREST

ADMINISTRATIVE DISTRICT NO. 3

In Section 12 , unsurveyed, Township 12 N., Range 17 E.

In Section 13, unsurveyed, Township 12 N., Range 17 E.

of the

Gila and Salt River Base & Meridian.

State of

ARIZONA

Applicants for listing J. A. Farrell and Lewis W. Freeman,

Heber, Arizona

Application No. 210 , dated June 18, 1910 and February 15,1911 Application No. 411 , dated November 11 , 1912

List No. 3-904 V List No. 3-2364

, dated , dated

, dated November 11 , 1912 December 12 , 1910 / , 19**13** / March 13

010

Applicant for survey

Lewis W. Freeman,

Residence

H. E. No. 016617 / H. E. No. 024129

Heber, Arizona

, dated February 5 , 1912

, dated

January 13 , 1914/

Office Land District

Phoenix, Arizona

Survey executed by R. P. A. Johnson,

Surveyor - Draftsman [Forest Service Title.]

Under special instructions dated

April 17

, 1916

Survey commenced

July 28

, 1916

Survey completed

July 28

, 1916

Under Acts of June 11, 1906 and June 30, 1916

[OVER]

OATH OF ASSISTANTS We haveby certify that we assisted Surveyor Stateman in surveying all those parts of portions of Homestead Entry Survey No. 451, 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 furnous Note: It would have been chainman, Chainman very expensive and inconvenient to appear before an officer to administer oaths to Assistants; hence, they Co Chainman were taken by the Surveyor. Subscribed and sworn to before me this Rugust , 19/6 OATH OF SURVEYOR mon, Surveyor [Forest Service Title.] do solemnly swear that, in strict conformity with the special instructions of the United States Surveyor General for Augusta, dated well, faithfully, and truly, in my own proper person, surveyed a tract of land embraced in List, No 3-904, dated Learnbur 12, 1910 and List, No. 3-2364, dated March 13, 1913, for fractent, under the Act of June 11, 1906 the same to be known as Homestead Entry Survey No. 451 situated within the Starcas National Wasurveyed Section /2 Township /2/V , Range /7/E wasurveyed Section /3 , Township /2/V , Range /7/E National Forest, in of the Gelamp Salt Lever Base and meridian Arizona 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 day of march, 19/7. SEAL. Notary Public, D. C. ******** June 20, 1918

SITCREAVES NATIONAL FOREST

STATE OF ARIZONA

Chains

Applicants for listing, J. A. Farrell and Lewis W. Free-man; Applications No. 210 and 411, dated June 18, 1910, February 15, 1911 and November 11, 1912; List Nos. 3-904 and 3-2364, dated December 12, 1910 and March 13, 1913; H. E. Nos. 016617 and 024129, made in the Phoenix Land Office on February 5, 1912 and January 13, 1914 by Lewis W. Freeman.

Surveyed under special instructions from the Surveyor General for Arizona, dated April 17, 1916 and designated as Homestead Entry Survey No. 451.

Situated in what will probably be, when surveyed, Secs.

12 and 13, T. 12 N., R. 17 E., Gila and Salt River

Base and Meridian, within the Sitgreaves National Forest, Arizona.

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

Survey commenced July 28, 1916 and executed with a

Buff and Buff transit equipped with Smith solar attach-

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

July 28, 1916, a.m.

I observe the altitude of the sun for azimuth at cor.

No. 4 of this survey, hereinafter described. 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.

SITCREAVES NATIONAL FOREST

STATE OF ARIZONA

Prod.				
91	H		-	-
(:n	2	7	n	C
Ch	C	7	TT	2

Lat. 34° 26' 30" N., Long. 110° 31' W., from special instructions from the Surveyor General.

Telescope, Time Horizontal Vertical Angle Angle

Direct 8h. 21m. 36s. 87° 59' 00" 37° 46' 00"

Reversed 8h. 22m. 29s. 88° 29' 30" 37° 24' 30"

Bearing of reference object, N. 0° 02' 14" W.

I again observe the altitude of the sun for azimuth at same station. 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.

Telescope Time Horizontal Vertical Angle

Direct 8h. 24m. 26s. 87°.33' 00", 38° 21' 30"

Reversed 8h. 25m. 20s. 88° 04' 30" 37° 59' 00"

Bearing of reference object, N. 0° 02' 58" W.

The mean of these is N. 0° 02' 36" W. and to the corresponding meridian all the courses of this survey are referred.

BOUNDARIES OF CLAIM

Beginning at cor. No. 1.

Deposit a sandstone 5 x 5 x 1 ins. marked with a +, 16 ins. in the ground, over which set a sandstone 26 x 12 x 7 ins., chiseled + for the point and 1 - H E S 451 on SW. face; and raise a mound of stone 3 ft. base, 2 ft. high SW. of cor., whence:

A pinon, 12 ins. dia., bears S. 83° 25' E., 571

1ks. dist., scribed 1 H E S 451 + B T.

No other witnesses available. Pits impracticable.

Cor. to secs. 7, 12, 13 and 18, T. 12 N., Rs.

17 and 18 E., which is a post 4 x 4 x 20 ins.

above ground, in mound of stone, marked and witnessed as described by the Surveyor General,

SITGREAVE NATIONAL FOREST

STATE OF ARIZONA

bears N. 87° 04' 03" E., 22.48 chs. dist., Chains by traverse which appears at the end of these notes. Cor. H.-2 of List 3-2364, which is a limestone 8 x 4 x 6 ins. above ground, marked and witnessed as described by the Forest Service, bears N. 11° 00' E., 82 lks. dist. I destroy all trace of this list cor. Lat. 34° 27' N., Long. 110° 30' 27" W., from special instructions from the Surveyor General, and later verified. Mag. decl. at 9:00 a.m., 14° 20' E. Mean mag. decl., 14° 17' E. Thence S. 11° 25' W. Ascend 40 ft. to ridge in open. Top ascent. Descend 40 ft. in open to draw. 6.50 Foot descent. Thence across open level draw, drains NW. 16.90 Leave open level draw and ascend 70 ft. in open to 21.30 point of ridge. Top ridge bears NW. and SE: Descend 50 ft. in open 38.20 to arroyo. Arroyo, 10 lks. wide, I ft. deep, course NW. Ascend 43.25 60 ft. in open to cor. . . To cor. No. 2. 47.17 Identical with cor. H-3 of List 3-2364, which is a sandstone 10 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 sandstone 6 x 4 x 2 ins. marked with a + 18 ins. in the ground, over which set a sandstone 28 x 12 x 6 ins., chiseled + for the point and 2 - H E S 451 on NW. face; and raise a mound of stone 3 ft. base, 2 ft. high NW. of cor., whence:

A juniper, 18 ins. dia., bears S. 28° 48' E.,

STATE OF ARIZONA

Chains

313 1ks. dist., scribed 2 H B S 451 + B T. A juniper, 18 ins. dia., bears S. 79° 50' W., 187 lks. dist., scribed 2 H E S 451 + B T.

Thence N. 89° 40' W.

Descend 90 ft. along NW. slope in open to arroyo.

Arroyo, 10 lks. wide, l ft. deep, course NW. 13.70

To cor. No. 3. 15.40

> At cor. of fence. Fence bears N. 60° W. and S. 35° E. Identical with cor. H-4 of Lists 3-2364 and 3-904, which is a limestone 12 x 8 x 10 ins. above ground, marked and witnessed as described by the Forest Service. I destroy all trace of this list cor. Deposit a sandstone 5 x 5 x 3 ins. marked with a + 10 ins. in the ground, over which set a sandstone 20 x 16 x 5 ins. (no larger stone available), chiseled + for the point and 3 - H E S 451 on N. face; dig pits $24 \times 24 \times 12$ ins. crosswise on claim lines 3 ft. dist.; and raise a mound of earth 4 ft. base, 2 ft. high, 3-1/2 ft. dist. N. of cor., whence:

A juniper, 4 ins. dia., bears S. 35° 35' E., 73 lks. dist., scribed 3 H E S 451 + B T. A juniper, 6 ins. dia., bears N. 82° 45' W., 61 lks. dist., scribed 3 H E S 451 + B T.

Thence S. 84° 35' W.

Leave List 3-2364 and enter List 3-904. Ascend 10 ft. in brush to low ridge.

1.50 Top ascent. Descend 10 ft. to wash.

Road, bears NE. and SW. . 5.75

Enter Pearce Wash, banks 3 ft. high, course NW. 6.40

12.50 Leave Pearce Wash, banks 3 ft. high, course NW.

Ascend 10 ft. in open to cor.

Telephone line, bears N. and S. 13.00

SITGREAVES NATIONAL FOREST

STATE OF ARIZONA

Chains

To cor. No. 4

Identical with cor.H-3 of List 3-904, which is a sandstone 12 x 7 x 17 ins. above ground, marked and witnessed as described by the Forest Service. I destroy all trace of this list cor. Deposit a sandstone 5 x 5 x 2 ins. marked with a + 15 ins. in the ground, over which set a sandstone 25 x 9 x 8 ins., chiseled + for the point and 4 - H E S 451 on NE. face; and raise a mound of stone 3 ft. base, 2 ft. high NE. of cor., whence:

A yellow pine, 22 ins. dia., bears N. 10° 36' E., 130 lks. dist., scribed 4 H E S 451 T.B T.

A yellow pine, 18 ins. dia., bears N. 71° 47' E., 202 lks. dist., scribed 4 H E S 451 + B T.

Cor. No. 7 of H. E. S. 465, which is a sandstone boulder in place, showing 5 x 4 x 1 ft. above ground, chiseled + on top and 7 - H E S 465 on SW. face, with mound of stone 3 ft. base, 2 ft. high, SW. of cor., bears S. 71° - 09' E., 12.69 chs. dist., by direct measurement.

Thence N. 11° 33' E.

Across open draw.

- 2.11 Arroyo, 18 lks. wide, 1 ft. deep, course NE.
- 2.71 Road, bears N. 47° E. and S. 47° W. Ascend 40 ft. in open to ridge.
- 11.10 Top ridge, bears E. and W. Descend 30 ft. to arroyo.
- 14.40 Arroyo, 10 lks. wide, 1 ft. deep, course E. Ascend

30 ft. to ridge.

- 16.60 Ridge, bears E. and W. Descend 70 ft. to wash.
- 27.70 Road, bears N. 30° W. and S. 30° E.

40

SITGREAVES INATIONAL FOREST

STATE OF ARIZONA

STATE OF ARIZONA TARE			
Chains	egisab		
29.05	Fence, bears S. 35° E. and N. 35° W. Telephone line		
8	bears S. 14° E. and N. 14° W.		
30.00	Pearce Wash, 135 Iks. wide, 2 ft. deep, course NW.		
31.55	Enter cultivated land, bears NW. and SE.		
40.50	Pearce Wash, 130 lks. wide, 2 ft. deep, course E.		
53.40	Fence, bears N. 50° E. and S. 50° W.		
54.20	Pearce Wash, 100 lks. wide, 3 ft. deep, course NW.		
55.45	To cor. No. 5.		
. 0	Deposit a sandstone 5 x 4 x 2 ins. marked with a +		
	14 ins. in the ground, over which set a sandstone		
	24 x 8 x 7 ins., chiseled + for the point and 5 -		
	H E S 451 on SE. face; and raise a mound of stone 3		
6 9 1 1 7 7	ft. base, 2 ft. high SE: of cor., whence:		
, 1	A yellow pine, 30 ins. dia., bears S. 55° 10' W.		
enotebn	106 lks. dist., scribed 5 H E S 451 + B T.		
	A yellow pine, 36 ins. dia., bears N. 30° 07' E.		
	127 lks. dist., scribed 5 H E S 451 + B T.		
	Cor. H-2 of List 3-904 is not found after		
	careful search.		
	Cor. H-1 of Lists 3-904 and 3-2364, which is a		
	limestone 11 x 7 x 20 ins. above ground, mark-		
	ed and witnessed as described by the Forest		
	Service, bears S. 70° 45' E., 16.75 chs. dist.		
	I destroy all trace of this list cor.		
ai.	Thence S. 77° 52' E.		
	Ascend 30 ft. to cor. in open.		
0.95	Fence cor., fence bears SSW: and ESE.		
27.00	Fence, bears E. and W.		
31.29	To cor. No. 1, the place of beginning.		
	Total Area		
	IMPROVEMENTS improvements made upon this claim and belonging to		

The improvements made upon this claim and belonging to

the claimant, consist of the following:

SITGREAVES NATIONAL FOREST

STATE OF ARIZONA

Chains

A frame house, 30 x 20 ft., the long side of which bears N. and S. and the SW. cor. of which bears N. 13° 45' E. 24.00 chs. dist. from cor. No. 4.

Value ------ \$250.00

A frame barn, 40 x 18 ft., the long side of which bears N. and S. and the SW. cor. of which bears N. 22° E., 21.25 chs. dist. from cor. No. 4.

Value ----- \$200.00

A frame outhouse, 10 x 10 ft., the SE. cor. of which bears N. 25° 50' E., 22.60 chs. dist. from cor. No. 4.

Value ----- \$ 30.00

There is approximately one mile of wire fence.

.Value ----- \$100.00

A shallow well bears N. 16° 10' E., 26.40 chs. dist. from cor. No. 4.

Value ----- \$ 30.00

DESCRIPTION

This claim lies on Pearce Wash at an elevation of 6300 ft. The general slope is to the N. The tract consists of level draw bottom in East half and gradual slopes in West half.

The timber consists of a few scattered juniper and pinon along S. and E. boundaries.

The soil of the bottom land is a sandy loam of good depth and produces good crops. The soil on slopes is shallow and gravelly and has never been used for agricultural purposes.

There is no water for irrigation. Water for domestic use is obtained from a shallow well.

This land is not known to be mineralized.

SITGREAVES NATIONAL FOREST

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Chains CONFLICTS AND ADJOINING CLAIMS

There are no conflicting or adjoining claims. Miles

Ranger Station lies approximately 10.00 chs. North of

claim and H. E. S. No. 465 lies approximately 4.00 chs.

to South.

Heber, Arizona, the nearest post office, is 8 miles to
West and Holbrook, Arizona, the nearest railroad point,
is 40 miles NE. - Both are reached by good wagon roads.

TRAVERSE '

Cor. --- Course --- Dist. N S 9.34 46.24 1-2 S. 11° 25' W. 47.17 15.40 2-3-N--89°-401-W--15.40 0.09 1.61 16.97 V 3-4 S. 84° 35' W. 17.05 4-5 N. 11° 33' E. 55.45 54.33 . 11.10 \ 6.58 30.59 V 5-1-S-77°-521-E--31.29 166.36 54.42 54.43 .02 Error in Lat. and Dep.

Closing error, 1:7440.

Survey completed July 28, 1916.

Surveyor - Draftsman

2349

SITGREAVES NATIONAL FOREST

STATE OF ARIZONA

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Direct Solar, July 28, 1916, at Cor. No. 4.
Chains
          Lat. 34° 26' 30" N., Long. 110° 31' W., Elev. 6300 ft.
                                                         Vertical
                                         Horizontal
                           Time
          Telescope
                                             Angle
                                                            Angle
                                                                       Sun
             Direct 8h. 24m. 26s. 87° 33' 00" 38° 21' 30" &
            Reversed 8h. 25m. 20s. 88° 04' 30" 37° 59' 00" +° 8h. 24m. 53s. 87° 48' 45" 38° 10' 15"
                                                         37° 59 00"
                                                               01, 00
                                                         38° 09' 15"
             Decl., 18° 58' 40" N.
                                 sin. 18° 58' 40"
          Cos. Q. =
                        cos. 34° 26' 30" x cos. 38° 09' 15"
                           tan. 34° 26' 30" x tan. 38° 09' 15"
           log. sin. 18° 58' 40" = 9.512152
           log. cos. 34° 26' 30" = 9.916297
           log. cos. 38° 09' 15" = 9.895616
9.700239 = log.
                                                              .50146
          log. tan. 34° 26' 30" = 9.836187 / 10g. tan. 38° 09' 15" = 9.895217 / 9.731404 = log. .53877 /
                                         Cos. Q. = 03731
Q. = 87° 51' 43"
           Bearing of reference object, N. 0° 02' 58" W.
                                   (2)
                                         Horizontal
                                                          Vertical
                             Time
           Telescope
                                                             Angle
                                                                       Sun
                                            Angle
             Direct 8h. 21m. 36s. 87° 59' 00" 37° 46' 00" &
             Reversed 8h. 22m. 29s. 88° 29' 30" 37° 24' 30" +° 8h. 22m. 02s. 88° 14' 15" 37° 35' 15"
                                                               01' 00"
                                                          370
                 Decl., 18° 58' 40" N.
                       sin. 18° 58' 40"
cos. 34° 26' 30" x cos. 37° 34' 15"
           Cos. Q. =
                                 tan. 34° 26' 30" x tan. 37° 34' 15"
           log. sin. 18° 58' 40" = +9.512152'
log. cos. 34° 26' 30" = -9.916297'
log. cos. 37° 34' 15" = -9.899054'
9.696801' = log.
                                                               .49751
           log. tan. 34^{\circ} 26^{\circ} 30^{\circ} = +9.836187 log. tan. 37^{\circ} 34^{\circ} 15^{\circ} = +9.886092
                                         +9.886092/= log.
                                                                .52757
                                           9.722279/
                                                                 .03006/
                                             Cos.
                                                   Q. = 88° 16' 39"
           Bearing of reference object, N. 0° 02' 14" W.
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Form 85

HOMESTEAD ENTRY SURVEY NO.

NATIONAL FOREST

STATE OF TO HEATE

order Solar, - July 28, 1916, at Jos. 40. 4. Chains 80" H., Long. 110° 01' W., Mlov. Ba Decl., 18° 58! 40" N. angard.c = for '80 °81 .uta CALDON S TO THE STATE OF THE ST Boaring of reference abject, w. O' ve' , in a se se von M. 1000. 100 34 20' 00' = 49.886187 1000. 100 34' 00' = 49.886098/ 1000. 100 34' 00' = 49.886098/ Hosping of reference object, M. O' 08' 19" H.

8-2349

Drections.—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 figure above in red ink. Do not change the footing of the lengths 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. ... 451 24 67 SOUTH. 46 LATITUDES. 60 NORTH. 54 47.17 15.40 17.05 DISTANCE. 55.45 M 89° 40" W. 田 110 251 84 . 351 BEARING. 321 Form 85. Sheet No. 3,—Revised Feb., 1915. CORNERS 2-3 1-2 3-4 4-5 8-2349

Arizona. OF STATE

582 Acres. 00 25 347 49 65 608 16 3799 81 S. AREAS. 3425 159 27 20/2191 0.060698 1,351216 11,290518 1.351216 1.351785 9.999431 72 16 17 and 18 E N. AREAS. 603 809 11 og. tan.87 04 02"= = sin.87 004 103"= D. .15 Rs. 22.48 07 34 26 DOUBLE M. 17 81 49 16 17 52 2 N 000 000 08 \$ 50 A -15 40 97 77 WEST. 30 16 41 and 13 DEPARTURES. 59 69 2 45 77 84 EAST. 18 10 22 30 H Tie 5443 Secs. 58 43 22 22 54 9 of to Cor 33 12 04 22 5443 37 42 a 54 Cor. No. 31.29 7.16 4.99 166.36 10.84 Closing error 1:7440 田 日日 田 75 . 521 461 521 02 z n N Cor TP-TP 1-TP 5-1

APPROVAL

Office of the United States Surveyor General,

Phoenix, Arizona, May 22,

The foregoing field notes of Homestead Entry Survey No.

451

executed by R. P. A. Johnson, Surveyor. Draftsman [Forest Service Title.] under his special instructions, dated April 17, 1916, 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.

FRANK P. TROTT

U. S. Surveyor General.

8-2349