U. S. DEPARTMENT OF AGRICULTURE

FOREST SERVICE

FIELD NOTES

OF

HOMESTEAD ENTRY SURVEY NO. 462

SITUATED IN THE

SITGREAVES

NATIONAL FOREST

ADMINISTRATIVE DISTRICT NO. 3

In Section 20 , unsurveyed, Township 11 N., Range 16 E.

In Section 21 , unsurveyed, Township 11 N., Range 16 E.

of the

Gila and Salt River Base and Meridian.

State of

ARIZONA

Applicant for listing Wm. W. Beard,

Residence

Heber, Arizona

Application No. 489 , dated

September 10 , 1913

List No. 3-3083

, dated

February 13 , 1914

Applicant for survey

Wm. W. Beard,

Residence

Heber, Arizona

027773 H. E. No.

, dated

January 27

, 1916 V

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 6

, 19 16

Survey completed

, 1916

July 6

1.0 , -8 tie 6-182 to 1-462

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

[OVER]

SEAL. Jonnission expires
June 20, 1918.

OATH OF ASSISTANTS
We hereby certify that we assisted . Thus on
Surveying all those
parts or portions of Homestead Entry Survey No. 462, 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 Annona
7 43/
Note: It would have been Melson Herry, Chainman
very expensive and incon- venient to appear before an
officer to administer oaths to Assistants; hence, they
were taken by the Surveyor.
Subscribed and sworn to before me this fourteenth day of
August, 1916. PASS
James M. Jam
Liveryor Arafternan
OATH OF SURVEYOR
I, Al Johnson, Surveyor Agastoman [Forest Service Pile.]
do solemnly swear that, in strict conformity with the special instruc-
tions of the United States Surveyor General for Augora, dated
well, faithfully, and truly, in my own proper person, surveyed a tract of land embraced in
of faile every term of the second of the sec
List, , No. 3-3083, date Seburany 13, 1914, for
List, No. 3-3083, date Seburany 13, 1914, for function of function of the same to be known as Homestead Entry Survey No. 462,
situated within the Sitgraavs National Forest, in approximate
situated within the Sutgracors National Forest, in approximate normal surveyed Section 20 , Township /// , Range 16 E , and , Range 16 E ,
of the Sila and Satt Chon Busin meridian, Angona, and the
related retracements and resurvey's 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.
T. Johnson
STRICT OF COLUMBIA CITY OF WASHINGTON Wegen Surveyor Title 1
Subscribed and sworn to before me this 27 day of
February, 1979.
Dyluster L. Mitain.
SEAL. Domwission expires June 20, 1918. NOTARY PUBLIC, D. C.

"1.

SITGREAVES NATIONAL FOREST

STATE OF ARIZONA

Chains

Applicant for listing, W. W. Beard; Application No. 489, dated September 10, 1913; List No. 3-3083, dated February 13, 1914; H. E. 027773, made in the Phoenix Land Office on January 27, 1916 by Wm. W. Beard.

Surveyed under special instructions from the Surveyor General for Arizona, dated April 17, 1916 and designated as Homestead Entry Survey No. 462.

Situated in unsurveyed T. 11 N., R. 16 E., in what will probably be, when surveyed, Secs. 20 and 21, Gila and Salt River Base and Meridian, Sitgreaves National Forest, Arizona.

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

Survey commenced July 6, 1916 and executed with a Buff and Buff transit equipped with Smith solar attachment. I test the adjustments of the transit and make necessary corrections.

.Josido somereler

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 6, 1916, p.m.

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

No. 1 of this survey, hereinafter described. The reading on the reference object is set at zero and the sun was observed in the upper left and lower right quadrants of the field. My watch is set for local mean time.

Lat. 34° 20' N., Long. 110° 40'15"W.from special instructions from the Surveyor General, and Forest Service Base Map.

34° 20' 13 110.40' 32' V at Cor.

Vertical

Horizontal

HOMESTEAD ENTRY SURVEY NO.

SITGREAVES NATIONAL FOREST

STATE OF ARIZONA

Time

Telescope

Chains.	Angle Angle	
-dew	Direct 2h. 37m. 08s. 80° 54' 00" 54° 52' 30"	
Basil x	Reversed 2h. 37m. 54s. 80° 22' 30" 55° 13' 00"	
	Bearing of reference object, N. 0° Q1' 08" E.	

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 upper left and lower right quadrants of the field.

Telescope

Time

Horizontal
Angle

Angle

Direct

2h. 39m. 37s. 81° 24' 00" 52° 22' 30"

Reversed 2h. 40m. 23s. 80° 50' 30" 54° 43' 00"

Bearing of reference object, N. 0° 00' 21" W.

The mean of these is N. 0° 00' 44" E. and to the corresponding meridian, all the courses of this survey are referred.

TIE

From cor. No. 1, hereinafter described:

Thence S. 67° 03' 44" W.

By traverse which appears at end of these notes.

18.45 To U. S. L. M. No. 182 H. E. S. which is a limestone

14 x 8 x 12 ins. above ground, marked U S L M No 182

H E S on W. face, with mound of stone 6 ft. base, 4 ft. high alongside cor.

BOUNDARIES OF CLAIM

Beginning at cor. No. 1.

Identical with cor. H-l of the list survey, which is a sandstone 12 x 4 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

SITGREAVES NATIONAL FOREST

STATE OF ARIZONA

Chains

4 x 3 x 2 ins. marked with a +, 14 ins. in the ground, over which set a limestone 24 x 12 x 8 ins., chiseled + for the point and 1 - H E S 462 on E. face; and raise a mound of stone 3 ft. base, 2 ft. high E. of cor., whence:

A yellow pine, 18 ins. dia., bears N. 7° 52' E., 71 lks. dist., scribed 1 H E S 462 + B T.

A yellow pine, 18 ins. dia., bears S. 49° 19' E.,

*87 lks. dist., scribed I H E S 462 + B T.

Cor. No. 6, H. E. S. 182, which is a limestone

8 x 4 x 10 ins. above ground, bears N. 0°

15' W., 215 lks. dist., by direct measurement.

U. S. L. M. No. 182, heretofore described, bears S. 67° 03' 44" W., 18.45 chs. dist.

Lat. 34° 20' N., Long. 110°40'15"W, from special instructions from the Surveyor General, and Forest Service Base Map.

Mag. decl. at 3:00 p.m., 14° 15' E. Mean mag. decl.,

14° 17' E.

Thence N. 38° 45' E.

Descend 15 ft. in open to wash.

1.23 Road bears N. 43° W. and S. 43° E.

3.65 Wash, 40 lks. wide, 4 ft. deep, course N. 40° W. Thence over open level land to cor.

5.69 To cor. No. 2.

Identical with cor. H-5 of the list survey, which is a limestone 20 x 12 x 6 ins. in mound of stone, marked and witnessed as described by the Forest Service. I destroy all trace of this list cor. Point for cor. falls on a limestone 24 x 16 x 24 ins. above ground. I mark + on top for point and 2 - H E S 462 to South; and raise a mound of stone 3 ft. base, 2 ft. high S. of cor., whence:

A yellow pine, 22 ins. dia., bears S. 47° 56' E., 56 lks. dist., scribed 2 H E S 462 + B T.

SITCREAVES NATIONAL FOREST

STATE OF ARIZONA

	SIAIL OF ARIZONA
Chains	A yellow pine, 22 ins. dia., bears N. 62° 06' E.,
befor	61 lks. dist., scribed 2 H E S 462 + B T.
osim bi	
. • 12	Thence S. 35° 53' E. and . The second in the broom is
	In open, over level land.
1.10	Fence cor., fence bears SW. and SE. Enter cultivated
	land. A R R R Boditos
12.50	Leave cultivated land. Enter wash, banks 3 ft. high.
16.70	Leave wash, banks 3 ft. high, course NNW.
19.00	Enter wash, banks 3 ft. high, course NNW.
20.50	Leave wash, banks 3 ft. high, course NNW. Ascend 20
ment.	ft. in open to cor.
37.20	Fence bears NE. and SW.
38.38	To cor. No. 3. 68.86 7 744 180 278 .8
-501100	Identical with cor. H-4 of the list survey, which is
loc Bear	a limestone 16 x 12 x 8 ins. in mound of stone, marked
	and witnessed as described by the Forest Service. I
	destroy all trace of this list cor. Point for cor.
	falls on top of limestone boulder in place 6 x 6 x 2
	ft. above ground. I mark + for point and 3 - H E S
	462 to MW.; and raise a mound of stone 3 ft. base, 2
	ft. high NW. of cor., whence:
	A yellow pine, 14 ins. dia., bears S. 71° 55' E.,
	19 lks. dist., scribed 3 H E S 462 + B T.
atio	A yellow pine, 18 ins. dia., bears S. 9° 40' W.,
beatem	47 lks. dist., scribed 3 H E S 462 + B T.
I.	
. 100	Thence S. 68° 37' W.
. Amu	Descend 25 ft. in open to wash.
1.50	Fence bears NE. and SW. Enter cultivated land.
4.35	Fence bears NW. and SE. Leave cultivated land.
7.00	
e ~ _ 1	ft. to ridge in timber.

11.20 Top ridge, bears N. and S. Descend 25 ft. to wash in

-2349

SITGREAVES NATIONAL FOREST

STATE OF ARIZONA

Chains

timber.

18.70 Wash, 50 lks. wide, 3 ft. deep, course N. 13° E.

Thence over level land in timber to cor.

00, . 010 . 010 . .

23.06 To cor. No. 4.

Identical with cor. H-Z of the list survey, which is a sandstone 12 x 7 x 8 ins. above ground, marked and witnessed as described by the Forest Service. I destroy all trace of this list cor. Deposit a sandstone 4 x 4 x 1 ins. marked with a +, 14 ins. in the ground, over which set a sandstone 24 x 8 x 6 ins., chiseled + for the point and 4 - H E S 462 on NE. face. No stones available for mound, therefore dig pits 24 x 24 x 12 ins. crosswise on claim lines 8 ft. dist.; and raise a mound of earth 4 ft. base, 2 ft. high NE. of cor., whence:

A yellow pine, 12 ins. dia., bears N. 44° 40' W.,

14 lks. dist., scribed 4 H E S 462 + B T.

A yellow pine, 24 ins. dia., bears S. 48° 03' W.,

20 lks. dist., scribed 4 H E S 462 + B T.

Thence N. 16° 41' E.

Ascend 10 ft. along E. slope and edge of timber.
Fence on line.

18.50 Top ascent. Descend 10 ft. to cor.

21.87 To cor. No. 5.

Identical with cor. H-2 of the list survey, which is a diorite stone 16 x 10 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 3 x 2 x 2 ins. marked with a +, 14 ins. in the ground, over which set a limestone 24 x 8 x 4 ins., chiseled + for the point and 5 - H E S 462 on E. face; and raise a mound of stone 3 ft. base, 2 ft. high E. of cor., whence:

SITGREAVES NATIONAL FOREST

STATE OF ARIZONA

Chains

A yellow pine, 40 ins. dia., bears N. 24° E.,

11 lks. dist., scribed 5 H E S 462 + B T.

A yellow pine, 16 ins. dia., bears S. 62° 42' W., 57 lks. dist., scribed 5 H E S 462 + B T.

Thence N. 37° 35' W.

Ascend 10 ft. along NE. slope in edge of timber to cor. Fence on line.

17.84

To cor. No. 1, the place of beginning.

AREA _

Total Area - - - - - - - - - - - 34.30 acres

IMPROVEMENTS

All the improvements made upon this claim were destroyed by fire shortly before survey was made, with the exception of one and one-half miles of wire fence.

Value ----- \$150.00

DESCRIPTION

This claim lies at the junction of East and West Forks of Turkey Spring draw, and just above junction of Turkey Spring Draw with Black Canyon. The elevation is 7000 ft. and general slope is to the NNW.

The soil in bottom is a rich black loam of good depth.

It is fertile and produces good crops. The soil on the slopes is rocky, shallow and of low agricultural value.

The timber consists of approximately 4 acres of good yellow pine located along South and West boundaries.

There is no water for irrigation or domestic use. Water for domestic use can be obtained from Black Canyon,

1/4 mile distant.

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SITGREAVES NATIONAL FOREST

STATE OF

ARIZONA

Chains

This land is not known to contain mineral.

CONFLICTS AND ADJOINING CLAIMS

There are no conflicting or adjoining claims. H. E. S. 182 is a few chains to the NW.

Heber, Arizona, the nearest post office, is approximately 8 miles NNE. and is reached by poor wagon road. Holbrook, Arizona, the nearest railroad and commercial center is 56 miles to the North and is reached by 8 miles of poor and 48 miles of good wagon road.

					TRAVERS	TRAVERDE											
Cor.		Cour	rse		Dist.	N	S	E	W								
1-2	N.	38°	451	E.	5.69	4.44		3.56									
2-3	s.	35°	531	E.	38.38		31.10	22.50									
3-4	s.	68°	371	W.	23.06		8.41		21.47								
4-5	N.	16°	41'	E.	21.87	20.95		6.28									
5-1	N.	370	351	W	17.84				10.88								
					106.84	39.53 39.51	39.51	32.34	32.35 32.34								

Closing error, 1:4770.

MD A TUDGE

Survey completed July 6, 1916.
Note: The tie from Cor. 1 of H E S 462 to Cor. 6 of H E S 182 does not agree with the connection bet. the two said corners, as reported in survey No. 182, accepted Nov.27, 1917. However, as this connection, of record in Survey No. 462, checks with the ties of the two surveys to U.S. L.M.No. 182 H E S, and with the connection bet. Cors. 5 and 2, of Surveys 182 and 462, respectively, as of record in Survey 182, the connection bet. Cors. 1-462 & 6-182 as reported in Sur. 182 is hereby reported in error.

Surveyor - Draftsman

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NATIONAL FOREST

STATE OF

hains	This land is not known to contain mineral.
	WITAIO THENIOTOR WIN ADJUNED TO A TO
• • • • • •	There are no conflicting or asjoining claims. U.
	18E is a few chains to the MV.
	Heber, Arizona, the negrest post office, is approx
- FoH	8 miles IMI. and is resened by poor wagon road.
fai	brook, Arizona, the mearest railroad and commerc
	Demonstration of the first end of telim ad af telmso
	miles of poor and 48 hiles of good waron road.
	INFREVACE.
	Cor. Course Dist. H S. S.
	1-2 J. 38. 48' L. 5.69 4.44 2.56
VA.I	5-4 5. 68° 27' W. 23.06
	4-5 1. 16° 41' 3. 81.87 20.95 6.28
88.0	0-1 U. 378 75' W. 17.84 74.34
.54	13.03 go. bns .tel ni rerra
100	Glosing error, 1:4770.
	Survey completed July 6, 1916. Note: The tle from Gor. 1 of H B 9 468 to Gor. 6
. YS. 7	to noes not agree with the connection bet.
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. 8 . 0	10. 402, checks with the ties of the two university. 10. 183 H E S, and with the connection net. Oc
Biopai	Fare view to and the and the view of the control of the second
	in Survey 182, the connection bet. Gore. 1-462 & c.
280	
DI.	eduard - dovevros

SITGREAVES NATIONAL FOREST

STATE OF ARIZONA

Chains

SP OST

Direct Solar, July 6, 1916 at cor. No. 1

H. E. S. 462 of W. W. Beard.

Lat. 34° 20' N., Long 110° 40115 W. Elevation 7000 ft.

Telescope Time Horizontal Vertical Angle Angle

Direct 2h. 39m. 37s: 81° 24' 00" 54° 22' 30"

Reversed 2h. 40m. 23s: 80° 50° 30" 54° 43° 00" 2h. 40m. 00s. 81° 07° 15" 54° 32° 45"

32" 54° 32' 13"

Decl. 22° 40; 03"

Cos. Q.= sin. 22° 40' Q3"

- cos. 34° 20' x cos. 54° 32' 13"

tan. 34° 20' x tan. 54° 32' 13"

log. sin. 22° 40' 03" = 9.585892 log. cos. 34° 20' = 9.916859 log. cos. 54° 32' 13 = 9.763562 9.905471 = log. .80440

453 168 408 =

log. tan. 34° 20' = 9.834425', log. tan. 54° 32' 13" = 10.147325', 9.981750 = log.

.95885

Cos. Q. = 81° 06' 54" .15445

Bearing of reference object, N. 0° 00' 21" W.

HOMESTEAD ENTRY SURVEY NO. 462.

SITGREAVES NATIONAL FOREST

STATE OF ARIZONA

Chains

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139 999

Direct Solar, July 6, 1916 at cor. No. 1 H. E. S. 462 of W. W. Beard.

Lat. 34° 20' N., Long. 110°49115 W.W. Elevation 7000 ft.

Horizontal Vertical Telescope Time Angle Angle

Direct 2h. 37m. 08s. 80° 54' 00" 54° 52' 30"

Reversed 2h. 37m. 54s. 80° 22' 30" 55° 13' 00"

2h. 37m. 31s: 80° 38' 15" 55° 02' 45" 32" V 55° 02' 13"

Decl. 22° 40' 04"

Cos. Q. = sin. 22° 40' 04" - cos. 34° 20' x cos. 55° 02' 12" - tan. 34° 20' x tan. 55° 02' 13"

log. sin. 22° 40' 64" = +9.585897, log. cos. 34° 20' = -9.916859, log. cos. 55° 02' 12" = -9.758194 9.910844 = log. .8144

.81441 V

.16235 V Cos. Q. = .162

= 81° 06' 54" Bearing of reference object, N. 0° 01' 08" E.

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 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. Do not change the footing of the lengths of area drop.

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.

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STATE	URES.	West.			27 47		10 88	32 35	3235.				5 03				76 91	00 0	16 99			Resultant		
NO. 462	DEPARTURES.	EAST.	3 56			6 28		32 34	3235								00 0							
TTRY SURVEY	DES.	Востн.		31 10				39 61	3953			TIE		1 10/			10 65	3 46	7 19					
HOMESTEAD ENTRY	LATITUDES.	Nовтн.	4 44			20 95		29 52	39 5 3				3 46	(CA) (Z			3 46							
OF	DISTANCE.		5.69	38.38	23.06	21.87	17.84	106.84					6.11	4.19	60.6	4.11								
ING AND CALCULATIONS	BEARING.		N. 38°-45' E.	S. 35° 53' E.	S. 68° 37' W.	N. 16° 41' E.	N. 37° 35' W.			1g error 1:4770			N. 55° 281 W.	S. 74° 43' W.	S. 52° 52' W.	S. 9° 22' W.	,							
S-2349 TABLING	CORNERS.		1-2	. 2-3	34	4-5	5-1			Closing			Cor.1 - Tp.1	Tp.1 - Tp.2	TP.2 - Tp.3	Tp. 3. U.S.L.M.								

APPROVAL

Office of the United States Surveyor General,

Phoenix, Arizona, May 22

The foregoing field notes of Homestead Entry Survey No.

462

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.

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.