Form 85 Sheet No. 1 (Revised July 1, 1914.)

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ORIGINAL

U. S. DEPARTMENT OF AGRICULTURE

FOREST SERVICE

FIELD NOTES

HOMESTEAD ENTRY SURVEY NO. 552

SITUATED IN THE SITGREAVES NATIONAL FOREST

ADMINISTRATIVE DISTRICT NO. 3

In Section 16 , unsurveyed, Township 12 No, Range 17 E. In Section 21 , unsurveyed, Township, 12 N., Range 17 E.

Establishment of U.S.L.M. No. 552, H.E.S.

of the .

GILA AND SALT RIVER BASE AND Meridian.

State of

ARIZONA

Applicant for listing	S. C. Bunger,									
Residence	Heber, Arizona.									
Application No. 704	, dated May 12	, 19 17								
List No.	dated	, 19								
Applicant for survey	S. C. Bunger,									
Residence	Heber, Arizona.									
H. E. No.	dated	, 19								
Land RXXXXXXX Office.	.Phoenix. Arizona.									

Survey executed by Frank D. Yost, Surveyor - Forest Service, Under special instructions dated February 15 , 19 18 Survey commenced July 21 , 19 19 Survey completed , 19 19 July 21

Under Acts of June 11, 1906, and July 24 , 1919. [OVER]

OATH OF ASSISTANTS

We hereby certify that we assisted

Surveyor - Forest Service,

[Forest Service Title.]

Frank D. Yost,
in surveying all those

parts or portions of Homestead Entry Survey No. 552, 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 expensive and inconvenient to appear before an officer to administer oaths to Assistants; hence, they were taken by the Surveyor.

HE Brandebury

chainman.

Subscribed and sworn to before me this

Sixth

day of

August , 1919.

Surveyor Forest Service,

OATH OF SURVEYOR

I, Frank D. Yost,

Surveyor - Forest Service, [Forest Service Title.]

do solemnly swear that, in strict conformity with the special instructions of the United States Surveyor General for ARIZONA, dated February 15, , 19 18, , and the laws of the United States, I have well, faithfully, and truly, in my own proper person, surveyed a tract of land upon the application of S. C. Bunger,

Application , No. 704 , dated May 12 , 19 17 , for Listing and Patent , under the Act of June 11 , 19 06 , the same to be known as Homestead Entry Survey No. 552 , situated within the SITGREAVES National Forest, in unsurveyed Section 16 , Township 12 No. , Range 17 Eo. , and unsurveyed Section 21 , Township 12 No. , Range 17 Eo. ,

of the GILA AND SALT RIVER BASE & 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.

Surveyor - Forest Service, [Forest Service Title.]

Subscribed and sworn to before me this

Fifth

day of

November

, 19 19.

Notary Public.

SEAL.

8-2349

My commission expires March 17, 1921.

1.

SITGREAVES NATIONAL FOREST

STATE OF ARIZONA

Chains

Applicant for listing, S. C. Bunger; Application No.704, dated May 12, 1917;

Surveyed under Special Instructions from the Surveyor General for Arizona, dated February 15, 1918, and designated as Homestead Entry Survey No. 552.

Situated in what will probably be when surveyed Secs.

16 and 21, T. 12 N., R. 17 E., Gila and Salt River Base
and Meridian, Sitgreaves National Forest, Arizona.

Surveyed under the Acts of June 11, 1906 and July 24,
1919, under the cooperative plan.

Survey commenced July 21, 1919, and executed with a Buff and Buff transit No. 10019, equipped with Smith solar attachment.

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 21, 1919.

At Cor. No. 2 of this survey hereinafter described, I observe the altitude of the sun for azimuth. The reading on the reference mark was set at 155° 27' 00" and the sun was observed in all four quadrants of the field. My watch was set for local mean time.

Lat. 34° 26' 00" N., Long. 110° 33' 30" W., from Special Instructions from the Surveyor General and later verified.

SITGREAVES NATIONAL FOREST

STATE OF ARIZONA

Chains	Telescope	Pos.	· 1.m.t. a.m.	Horizontal Angle	Vertical Angle			
	Direct	+0	7h 27m 00s	262° 24' 30"	27° 40° 30°			
	Reversed	+	7h 29m 10s	262° 05' 00"	27° 35° 30"			
	Direct	o <u>t</u>	7h 27m 50s	261° 551 30"	27° 50° 30°			
. 1986	Reversed	+0	7h 28m 35s	262° 36' 00"	27° 28			
	The bea	ring	of reference n	mark is N. 23°	521 14" W.			

At the same station I again observe the altitude of the sun for azimuth. The reading on the reference mark was set at 155° 27' 00" and the sun was observed in all four quadrants of the field.

Telescope Pos. l.m.t. Horizontal Vertical a.m. Angle Angle

Direct +° 7h 3lm 30s · 262° 59' 00" 28° 37' 30"

Reversed + 7h 32m 20s 262° 36' 30" 28° 29' 00"

Direct + 7h 32m 00s 262° 36' 30" 28° 43' 30"

Reversed + 7h 32m 50s 263° 07' 30" 28° 22' 00"

The bearing of reference mark is N. 23° 52' 45" W.

The two obsns. give a mean bearing of reference mark as

N. 23° 52' 29" W. I accept bearing of reference mark

as N. 23° 52' W. and from the corresponding meridian

all the courses of this survey were deflected by sus
tained angulation.

ESTABLISHMENT OF U.S.L.M. 552 H.E.S.

There being no accepted corner of the public land survey or U.S.L.M. within the prescribed limits, I establish U.S.L.M. 552 H.E.S: as follows:

Located on the East side of a small shallow draw, which is a tributary to Long Draw about 12 chains Southeast-erly of the Heber to Holbrook road. I chisel + for the point and U S L M 552 H E S on top of a flat lime-stone outcrop showing 5 x 2 x l ft. above ground, and

3.

HOMESTEAD ENTRY SURVEY NO. 552

SITGREAVES NATIONAL FOREST

STATE OF ARIZONA

Chains

raise a mound of stone 6 ft. base, 6 ft. high, West of the U. S. L. M., whence:

A pine 14 ins. dia., brs. S. 30° 32' B.,
14 lks. dist.

A pine 20 ins. dia., brs. 'S. 75° 56' W., 294 lks. dist.

A pinon 5 ins. dia., brs. N. 9° 52' E.,

A pinon 14 ins. dia., brs. N. 88° 49° E.,

Each blazed and scribed US LM 552 HES + BT

Note: This section of the country is a high mesa, heavily covered with timber, and it was impracticable to secure bearings to topographic objects from any point in this vicinity.

BOUNDARIES OF CLAIM

Beginning at Cor. No. 1,

I chisel + for the point and 1 H E S 552 on the flat top of a limestone outcrop, showing 24 x 18 x 18 ins. above ground, for Cor. No. 1 of this survey, and raise a mound of stone 3 ft. base, 2 ft. high, S. of cor., whence:

A pine 24 ins. dia., brs. S. 88° 21' W., 458 lks. dist.

A pinon 12 ins. dia., brs. N. 3° 48' E.,

49 lks. dist.

Each blazed and scribed 1 HES 552 + BT
U.S. L. M. 552 H.E.S. heretofore described,
brs. N. 4° 55' W., 5.17 chs. dist. by
direct measurement.

Lat. 34° 26" 28" N., Long. 110° 34' 02" W., from

SITGREAVES NATIONAL FOREST

STATE OF ARIZONA

Chains

Special Instructions from the Surveyor General and later verified.

Mag. decl. at 8 a.m., 14° 30' E., Mean

Mag. decl., 14° 26' E.

Along rolling rocky SW. slope, thru heavy oak brush.

57.66

Deposit a limestone 5 x 4 x 2 ins. marked with a + 24 ins. in the ground, over which set an iron post 36 ins. long, 2 ins. dia., with brass cap mkd. 1919 on the S. rim and 2 H E S 552 in portion of circle facing the claim; raise a mound of stone 3 ft. base, 2 ft. high, NW. of cor., whence: par , second best of

A pinon 16 ins. dia., brs. S. 52° 10' W., 333 lks. dist.

> A pinon 12 ins. dia., brs. S. 19° 57' E., 308 lks. dist.

Each blazed and scribed 2 H E S 552 + B T

Thence S. 68° 24' W.

Over rolling NW. slope, thru oak brush, pinon and pine. To Cor. No. 3.

45.39

I chisel a + for the point and 3 H E S 552 on the flat top of an embedded limestone boulder showing 36 x 14 x 4 ins. above ground, for Cor. No. 3 of this survey; and raise a mound of stone 3 ft. base, 2 ft. high, NE. of cor., whence:

A pine 24 ins. dia., brs. S. 74° 34' W., 236 lks. dist.

A pine 24 ins. dia., brs. N. 4° 30' W., 104 lks. dist. 1

Each blazed and scribed 3 H E S 552 + B T

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SITGREAVES NATIONAL FOREST

STATE OF ARIZONA

Chains

Thence N. 7° 09' W.

Over rolling NE. slope, thru oak brush, pinon and pine.

37.96

To Cor. No. 4.

Deposit a limestone 6 x 4 x 2 ins. marked with a + 30 ins. in the ground, over which set an iron post 36 ins. long, 2 ins. dia., with brass cap marked 1919 on South rim and 4 H E S 552 in portion of circle facing claim; raise a mound of stone 3 ft. base, 2 ft. high, E. of cor., whence:

> A cedar 10 ins. dia., brs. N. 88° 52' E., 116 lks. dist.

> A pinon 14 ins. dia., brs. N. 12° 29' W., 142 lks. dist.

> Each blazed and scribed 4 H E S 552 + B T

Over rolling rocky SE. slope, thru heavy oak brush, juniper, cedar and pine.

29.64 To Cor. No. 1, the place of beginning.

and the Jumes of the AREA of the collection, and the

Total Area - - - - - - - - - - - - - 159.28 Acres

IMPROVEMENTS.

There were no improvements on the claim at the time of survey.

DESCRIPTION

The claim lies at the mouth of a wide shallow draw, near its junction with Long Draw, and consists mainly of flat bottom land.

The soil on the bottom land is a sandy loam 3 to 4 ft. deep, with red clay subsoil, well adapted for agricul-

SITGREAVES NATIONAL FOREST

STATE OF ARIZONA

Chains

tural purposes.

There is no water on the claim and the possibilities of developing water are very meager. If however, all the water that would run during an ordinary year were carefully conserved by means of storage tanks it would possibly be sufficient for all domestic purposes.

Approximately 70 percent of the area is suitable for agricultural purposes. None of the area had been under cultivation at the time of survey.

There is no timber of commercial value on the claim.

I saw no evidence of mineral on the claim.

CONFLICTS AND ADJOINING CLAIMS

There are no conflicts or adjoining claims. There are no nearby claims. H.E. S. 550 and H.E.S. 464 lie about 2 miles distant in a Southeasterly direction. H.E.S. 180 and 181 lie about 2 miles distant in a Southerly direction. H.E.S. 460 lies about 2 miles distant in a southwesterly direction.

Heber, Arizona, the nearest settlement and postoffice, lies about six miles distant in a Westerly direction.

Holbrook, Arizona, the nearest railway point lies about 45 miles distant in a Northeasterly direction and is reached by fair wagon road.

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SITGREAVES NATIONAL FOREST

STATE OF ARIZONA

Chains		TRA	VERSES			Casin
	Course	Dist.	N.	s.	E.	w.
	S. 35° 13' E. S. 68° 24' W. N. 7° 09' W. N. 27° 28' E.	57.66 45.39 37.96 29.64	37.66 26.30	47.11 16.71	33.25	42.20 4.72
	Error in Lat.	170.65	63.96 63.82 .14	65.82	46.92 46.92 .00	46.92
	Closing Error,	1:1219				

Survey completed July 21, 1919.

Surveyor - Forest Service,

181 8

SITGREAVES NATIONAL FOREST

STATE OF ARIZONA

Chains

Direct Solar computation at Cor. No. 2, H.E.S. 552,
July 21, 1919.

Lat. 34° 26' 00" N., Long. 110° 33' 30" W., from Special Instructions from the Surveyor General and

later verified. Elevation approximately 6100 feet.

l.m.t. Horizontal Telescope Pos. Vertical sun a.m. Angle Angle +0 Direct 7h 29m 10s 262° 05' 00" 27° 351 30" Reversed ot Direct 4 7h 27m 50s 261° 55' 30" 27° 501 30" Reversed + 7h 28m 35s 262° 36' 00" 27° 28 30" 7h 28m 09s 262° 15' 15" Means 27° 38 1 45"

Corr. for refr. 1' 23" 27° 37' 22"

Decl. 20° 36' 50% N.

Cos. Q. = sin. 20° 36' 50" - tan. 34° 26' cos. 34° 26' x cos. 27° 37' 22"

x tan. 27° 37' 22"

sin. 20° 36' 50" = 9.5466272

cos. 34° 26' 00" = 9.9163406"

cos. 27° 37' 22" = 9.9474432

9.6828434 = log. .48177

tan. 34° 26' 00" = 9.8360513

tan. 27° 37' 22" = 9.7187455

9.5547968 = log. <u>.55875</u>

Cos.Q.= .12302

Q. = 82° 56' 01"

Bearing of sun. N. 82° 56' Ol"

Angle mark to sun 106° 48' 15"

Bearing of Reference mark N. 23°52'14"W.

(Reading on reference mark 155° 27' 00")

12307 = 90899959 log-8256 = e009,0899903 148 148 + 61" Chains

HOMESTEAD ENTRY SURVEY NO. 552

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SITGREAVES NATIONAL FOREST

STATE OF ARIZONA

Direct solar computation at Cor. No. 2, H.E.S. 552. l.m.t. Telescope Pos. Horizontal Vertical Angle Angle sun a.m. +0 7h 3lm 30s 262° 59' 00" 28° 37' 30" Direct 7h 33m 20s' 262° 36' 30" 28° 291 00" Reversed + 262° 36 1 30" 7h 32m 00s 0+ 28° 431 30" Direct Reversed + 7h 32m 50s 263° 07 30" 28° 221 00" 7h 32m 25s 262° 49' 52" 28° 33' 00" Means Corr. for refr. 11 1911 28° 31 41"

Decl. 20° 36' 48" N.

Cos.Q. = sin. 20° 36' 48" - tan. 34° 26' cos.34° 26' x cos.28° 31' 41"

x tan. 28° 31' 41"

sin. 20° 36' 48" = 9.5466160

cos. 34° 26' 00" = 9.9163406

cos. 28° 31' 41" = 9.9437830

9.6864924 = log. .48584

tan. 34° 26' 00" = 9.8360513

tan. 28° 31' 41" = 9.7352713

9.5713226 = log. .37267

Cos. Q. = .11317

Q. = 83° 30' 07"

Azimuth of sun

N. 83° 301 07" E.

Angle mark to sun

107° 22' 52"

Bearing of Reference Mark, N. 23° 52' 45" W.

(Reading on reference mark, 155° 27' 00")

 $83^{\circ}30'10'' = \cos 9.0537313$ $83^{\circ}30'10'' = \cos 9.0536739$ $83^{\circ}30'10'' - 93 = 83^{\circ}30'07'' \sqrt{184.9} = -3''$

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Form 85. Sheet No. 2.

HOMESTEAD ENTRY SURVEY NO.

NATIONAL FOREST

STATE OF

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

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

2. In balancing Lateudes 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 footing in red ink.

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.

CORNERS.	BEARING.	DISTANCE.	LATITUDES.		DEPARTURES.				DOUBLE M.	D. N.	N. AREAS.		S. AREAS.		
			North.	South.	Eas	r.	West.								
1 - 2	S. 35-13 E.	57.66		47 11	33	25			60 5	A DOMESTIC OF THE PARTY OF THE			2857	42	
2 -3	S. 68-24 W.	45.39	/3	16 71	((A A)		42 2	20	51 6	+ '			864	97	
3 - 4	N. 7-09 W.	37.96	37 66,				4 7	72	4 7	2	177	61			
4 - 1	N. 27-28 E.	29.64	26 30		13	67			13 6	7	359	25			
		170.65		63 82		92	46 9	2			536	86	3722	39	
			63 96 63 82	91	46	92							536	86_	
	Error in Depa	rture.	14			00							20/3165	53	
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								100							

APPROVAL

Office of the United States Surveyor General,

Phoenix, Arizona, april 14, 1920

The foregoing field notes of Homestead Entry Survey No.

552

executed by Frank D. Goof, Surveyor [Forest Service Title.] under his special instructions, dated Feb. 15, 1918, 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.

r—2349