# U. S. DEPARTMENT OF AGRICULTURE FOREST SERVICE

SEP.4-1917

# FIELD NOTES

OF

MAI-21818

HOMESTEAD ENTRY SURVEY NO. 394

SITUATED IN THE

COCONINO

NATIONAL FOREST

ADMINISTRATIVE DISTRICT NO. 3

In Section 3 , unsurveyed, Township 14 N., Range 9 E.

of the

Gila and Salt River Base and Meridian.

State of

ARIZONA

Applicant for listing Mrs. E. Hopper,

Residence

Pine, Arizona

Application No. 211 , dated November 16

, 19 10 V

List No. 3-1752

, dated February 26

, 1912

Applicant for survey Samuel Bristow,

Residence

Pine, Arizona

H. E. No. **029111** , dated

Office

December 29

, 1915

Land District Phoenix, Arizona

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

Under special instructions dated

July 9

, 1915

Survey commenced

June 1

Survey completed

June 2

, 1916

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

[OVER]

OATH OF ASSISTANTS	
We hereby certify that we assisted in surveying all those	
Turvey or [Forest Service Title.]	
parts or portions of Homestead Entry Survey No. 394, in the State of which are represented in the following field notes	26
ag 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 Angona	
7 1 971	
Note: It would have been felant the ferman, Chainman	
very expensive and incon- venient to appear before an	
officer to administer oaths	
to Assistants; hence, they were taken by the Surveyor.	
. molbitud bus some way was a second of the	
Subscribed and sworn to before me this Suth day of	
July , 19/6 . P. A. A.	
July, 19/6. P. Shimon	
Surveyor Xvaftsman	
OATH OF SURVEYOR	
I, P. F & Johnson Surveyor Anastannay	9
do solemnly swear that, in strict conformity with the special instruc-	
tions of the United States Surveyor General Ior Justina, dated	
well, faithfully, and truly, in my own proper person, surveyed a tract	
of land er braced in Aust 3-1757 dated february 26, 1912 and tracts of and infrom the upplication of Mo & Apple	
Application No. 211, dated November 1910, for , under the Act of June 11, 1906,	
the same to be known as Homestead Entry Survey No. 394;	
Wo surveyed Section 3, Township 14/V., Range 9E, and	
-surveyed Section , Township , Range ,	
On PROPERTY	
of the Gilam Salt how Bumeridian, Trisona, 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.	
DISTRICT OF COLUMBIA A STATE OF COLUMBIA	
CITY OF WASHINGTON Surveyor Sraftsman	
Subscribed and sworn to before me this / st day of	
February, 1917.	
Dyfrester J. M. Faurin,	
SEAL. NOTARY PUBLIC, D. C.	

Commission expires
June 20, 1918.

## COCONINO NATIONAL FOREST

#### STATE OF ARIZONA

Chains

Applicant for listing, Mrs. E. Hopper; Application No. 211, dated November 16, 1910; List No. 3-1752, dated February 26, 1912; H. E. 029111 made in the Phoenix Land Office on December 29, 1915 by Samuel Bristow.

Also a small area of unlisted land adjoining on the Northwest and Northeast was included in this survey in order to include improvements belonging to the claimant. The land is agricultural in character, was desired by the entryman and will be listed as a basis for amendment of his entry.

Surveyed under special instructions from the Surveyor General for Arizona, dated July 9, 1915 and designated as Homestead Entry Survey No. 394.

Situated in what will probably be when surveyed, Sec. 3, T. 14 N., R. 9 E., Gila and Salt River Base and Meridian, Coconino National Forest, Arizona.

Surveyed under the Acts of June 11, 1906 and March 4, 1915.

Survey commenced June 1, 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.

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.

June 1, 1916 a.m.

I observe the altitude of the sun for azimuth at Cor.
No. 4 of the survey, hereinafter described. The
reading on the reference object is set at zero and

2:

HOMESTEAD ENTRY SURVEY NO. 394

## COCONINO NATIONAL FOREST

# STATE OF ARIZONA

Chains

sun was observed in the lower left and upper right quadrants of the field. My watch is set for local mean time. Lat. 34° 38' N., Long. 111° 23' W. from special instructions from the Surveyor General and later verified.

Telescope Time Horizontal Vertical
Angle Angle
Direct 8h.22m.25s. 82° 34' 29° 35'
Reversed 8h.23m.10s. 82° 03' 30" 29° 11' 30"

Bearing of reference object N. 0° 05' 45" W.

June 2. 1916 a.m.

I again observe the altitude of the sun for azimuth at Cor. No. 4, 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.

Telescope Time Horizontal Vertical
Angle
Direct 9h.37m.14s. 76° 59' 57° 09' 30"
Reversed 9h.38m.13s. 77° 30' 56° 48' 30"

Bearing of reference object N. 0° 04' 30" W.

The mean of these is N. 0° 05' 07" W. and to the corresponding meridian all the courses of this survey are referred.

### RETRACEMENTS

June 1, 1916.

From 1/4 sec. cor. bet. secs. 3 and 34, Ts. 14 and 15 N., R. 9 E., which is a post marked and witnessed as described by the Surveyor General. Post is partially decayed. I therefore restore cor. as follows:

Deposit a lava stone 4 x 2 x 2 ins. 10 ins. in the ground, over which set a lava stone 20 x 10 x6 ins. chiseled 1/4 on N. face and raise a mound of stone 3 ft. base, 2 ft. high North of cor.

#### COCONINO NATIONAL FOREST

	TOCOCONINO NATIONAL FOREST										
		STATE OF ARIZONA WYANG									
Chains Thence East.											
		On random line bet. sec. 3 and 34.									
	45.52	Fall 3 lks. South of cor. for secs. 2, 3, 34 and 35									
		which is a post in mound of stone marked and witnessed									
		as described by the Surveyor General.									
		Thence South 89° 58' W.									
	500	On true line bet. secs. 3 and 34.									
	45.52										
TO AD DE SELECTORS : SOST . ESS. DE SE SES AND LESS OF DE LOS OF THE SERVICE OF T											
Second Se	BOUNDARIES OF CLAIM										
Beginning at cor. No. 1 and C. C. on line bet. so											
The second second		3 and 34.									
Deposit a lava stone 3 x 2 x 2 ins. marked with a +											
The state of the s	9	14 ins. in the ground, over which set a lava stone									
Particular property		24 x 10 x 6 ins., chiseled * for the point and 1 -									
The same of the same of	YE LU	HES 394 on SE. face and C C on SSW. face; and raise									
-		a mound of stone 2 ft. base, 1-1/2 ft. high SSW. of									
-		cor., whence:									
Section of Section 2		A yellow pine, 16 ins. dia., bears S. 67° 42' W.									
-		54 lks. dist., scribed 1 H E S 394 + B T.									
	110	A yellow pine, 6 ins. dia., bears N. 34° 32' W.									
-		28 lks. dist., scribed 1 H E S 394 + B T.									
ø		dom for good 2 3 34 and 35 heretofore									

54 lks. dist., scribed 1 H E S 394 + B T.

A yellow pine, 6 ins. dia., bears N. 34° 32' W.

28 lks. dist., scribed 1 H E S 394 + B T.

Cor. for secs. 2, 3, 34 and 35, heretofore
described, bears N. 89° 58' E. 35.99 chs. dist.

1/4 Sec. cor. bet. secs. 3 and 34, heretofore
described, bears S. 89° 58' W. 9.53 chs. dist.

Cor. H-6 of list survey, which is a sandstone
8 x 4 x 6 ins. above ground, marked and witnessed as described by the Forest Service,
bears N. 16° 44' E., 75 lks. dist. I destroy
all trace of this list cor.

Lat. 34° 38' 13" N. Long 111° 22' 50" W. From special instructions from the Surveyor General and later verified.

## STATE OF ARIZONA

Mag. Var. at 4 p. m. 14° 30' E. Mean mag. Var. 14° 32'/ E. Chains Thence N. 89° 58' E. Over unlisted land. On line bet. secs. 3 and 34, across

open draw.

Cor. No. 2 and C. C. on line bet. secs. 3 and 34. Deposit a lava stone 4 x 3 x 2 ins. marked with a + 14 ins. in the ground, over which set a lava stone 24 x 14 x 6 ins. chiseled + for the point, 2 - H E S 394 on SW. and C C on SSE. face; and raise a mound of stone 2 ft. base, 1-1/2 ft. high SSE. of cor., whence:

A yellow pine, 36 ins. dia., bears S. 58° 56' W. 33 lks. dist., scribed 2 H E S 394 + B T.

A yellow pine, 6 ins. dia., bears N. 17° E. 81 lks. dist., scribed 2 H E S 394 + B T. Cor. for secs. 2, 3,34 and 35, heretofore described, bears N. 89° 58' E., 33.84 chs. dist.

1/4 Cor. bet. secs. 3 and 34, heretofore described bears S. 89° 58' W., 11.68 chs. dist.

Thence S. 11° 34' E.

In open, over level land along edge timber. Enter arroyo, '30 lks. wide, 2 ft. deep, course S. 11° 34' E.

Leave arroyo, 30 lks: wide, 2 ft. deep, course SE. 8.00

Road, bears N. 55° Eand S. 55° W. 10.20

Cor. No. 3.

Identical with Cor. H-5 of the list survey, which is a lava stone 8'x 6 x 6 ins. above ground, marked and witnessed as described by the Forest Service. I destroy all trace of this list cor. Deposit a lava stone 4 x 3 x 2 ins. marked with a + 14 ins. in the ground, over which set a lava stone 24 x 16 x 5 ins. chiseled + for the point and 3 - H E S 394 on W. face; raise a mound of stone 3 ft. base, 2 ft. high W. of cor., whence:

5.70

10.85

### COCONINO NATIONAL FOREST

### STATE OF ARIZONA

Chains

A yellow pine, 26 ins. dia., bears N. 31° 25' E., 82 lks. dist., scribed 3 H E S 394 + B T.

A yellow pine, 22 ins. dia., bears S. 62° 44' E. 29 1ks. dist., scribed 3 H E S 394 + B T.

Thence S. 40° 08' W.

Over listed land. In open, over level land.

Cor. No. 4. 26.05

> Identical with Cor. H-4 of the list survey, which is a lava stone 10 x 5 x 10 ins. above ground, marked and witnessed as described by the Forest Service. I destroy all trace of this list cor. Deposit a lava stone 2 x 2 x 2 ins. marked with a + 14 ins. in the ground, over which set a lava stone 20 x 14 x 5 ins., chiseled + for the point and 4 - H E S 394 on W. . face; and raise a mound of stone 3 ft. base, 2 ft. , high W. of cor., whence:

A yellow pine, 26 ins. dia., bears S. 49° 38' E., 111 1ks. dist., scribed 4 H E S 394 + B T. A yellow pine, 28 ins. dia., bears S. 87 47' W., 102 lks. dist., scribed 4 H E S 394 + B T. June 1, 1916.

Note: No longer stone available for cor.

June 2, 1916.

Thence S. 34° 06' E.

In open, over level, land.

Cor. No. 5.

Identical with Cor. H-3 of the list survey, which is a lava stone 8 x 6 x 3 ins. above ground, marked and witnessed as described by the Forest Service. I destroy all trace of this list cor. Deposit a lava stone 3 x 2 x 2 ins. marked with a + 16 ins. in the ground, over which set a lava stone 26 x 14x14

HOMESTEAD ENTRY SURVEY NO. 394

COCONINO NATIONAL FOREST

### STATE OF ARIZONA MINITED

Chains

ins. chiseled + for the point and 5 - H E S 394 on
W. face; raise a mound of stone 3 ft. base, 2 ft.
high W. of cor., whence:

A yellow pine, 20 ins. dia., bears N. 6° 04' E. 245 lks. dist., scribed 5 H E S 394 + B T. A yellow pine, 29 ins. dia., bears N. 29° 10' E.,

258 lks. dist., scribed 5 H E S 394 + B T.

Cor. No. 3 H. E. S. No. 175, which is a lava

stone 9 x 8 x 10 ins. above ground, marked

3 H E S 175 on NE. face, bears S. 23° 07' E.,

8.14 chs. dist. by direct measurement.

Thence S. 27° 00' W.

Across open level park.

3.00 Cor. No. 6.

Identical with Cor. H-2 of the list survey, which is a sandstone 10 x 6 x 4 ins. above ground, marked and witnessed as described by the Forest Service. I destroy all trace of this list cor. Deposit a lava stone 4 x 4 x 2 ins., marked with a + 14 ins. in the ground, over which set a lava stone 24 x 16 x 6 ins. chiseled + for the point and 6 - H E S 394 on N. face; raise a mound of stone 3 ft. base, 2 ft. high N. of cor., whence;

A yellow pine, 20 ins. dia., bears S. 65° 39' E. 117 lks. dist., scribed 6 H E S 394 + B T. A yellow pine, 29 ins. dia., bears S. 5° 23' E., 164 lks. dist., scribed 6 H E S 394 + B T.

Thence N. 33° 28' W.

In open, over level land along edge of timber.

Cor. H-l of the list survey, which is a lava stone

18 x 8 x 10 ins. above ground, marked and witnessed

37.07

· X

## COCONINO NATIONAL FOREST

STATE OF ARIZONA

Chains

as described by the Forest Service. I destroy all trace of this list cor.

Enter unlisted land.

39.79

Cor. No. 7.

Deposit a lava stone 3 x 3 xl ins. marked with a \*

16 ins. in the ground, over which set a lava stone

26 x 14 x 14 ins. chiseled + for the point and

7 - H E S 394 on E. face; raise a mound of stone 3 ft.

base, 2 ft. high E. of cor., whence:

A yellow pine, 10 ins. dia., bears N. 14° 35' W. 87 lks. dist., scribed 7 H E S 394 + B T.

A yellow pine, 12 ins. dia., bears N. 22° 20' E. 144 lks. dist., scribed 7 H E S 394 + B T.

Thence N. 46° 42' E.

Over level land along edge of timber.

10.50 Road, bears S. 60° W. and N. 60° E.

16.39 Cor. No. 8.

Identical with Cor. H-7 of the list survey, which is a lava stone 6 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 lava stone 3 x 3 x 2 ins. marked with a + 14 ins. in the ground, over which set a lava stone 24 x 12 x 5 ins. chiseled + for the point and 8 - H E S 394 on E. face; raise a mound of stone 3 ft. base, 2 ft. high E. of cor., whence:

A yellow pine, 38 ins. dia., bears N. 81° W.

11 lks. dist., scribed 8 H E S 394 + B T.

A yellow pine 45 ins. dia., bears N. 13° 57' E.

102 lks. dist., scribed 8 H E S 394 + B T.

Thence N. 16° 44' E.

## HOMESTEAD ENTRY SURVEY NO. 394

## COCONINO NATIONAL FOREST

## STATE OF ARIZONA

Chains Enter listed land. Over level land in open.

13.80 Arroyo, 30 lks. wide, 3 ft. deep, course ESE.

17.29 Cor. No. 1, the place of beginning.

#### AREA

### IMPROVEMENTS

The improvements made upon this claim consist of the following:

A frame cabin 12 x 10 ft., the long side of which bears E. and W. and SE. cor. of which bears N. 48° 48' E., 5.09 chs. dist. from Cor. No. 7.

Value - - - - - - \$150.00

A pole corral near center of claim on line bet. Cors.
4 and 7.

Value - - - - - \$ 25.00

An earth and rock tank, 1.50 chs. N. W. of Cor. No. 4.

Value - - - - - \$ 25.00

## DESCRIPTION

This claim lies along narrow open draw, surrounded on all sides by very low heavily timbered mesa. The elevation is 6900 ft. The general slope is to SE.

There is no timber on the claim.

Soil consists of a clay loam of good depth and will produce good crops.

There is no water for irrigation. Water can be obtained for a small portion of the year from rock and earth tank on claim.

Approximately 1 acre has been cultivated.

This claim was unoccupied at time of survey.

# COCONINO NATIONAL FOREST

### STATE OF ARIZONA

Chains I saw no indication of mineral.

# CONFLICTS AND ADJOINING CLAIMS

There are no conflicting or adjoining claims. H. E. S. 175 of C. C. Montgomery lies a short distance East.

H. E. S. 387 of Uriah Reid lies about 3/4 mile Southwest.

Pine, Arizona, the nearest post office, is 25 miles distant, and Flagstaff, Arizona, the nearest railroad point is 65 miles distant.

		TRAVE	RSE			
Cor.	Course	Distance	· M	S	E	W
1-2 2-3 3-4 4-5 5-6 6-7 7-8 8-1	N.89° 58' S.11°34' S.40° 08' S.34° 06' S.27° 00' N.33° 28' N.46° 42' N.16° 44'	E. 16.39 E. 17.29	33.19 11.24 16.56	10.63 19.92 27.81 2.67	2.15 2.18 18.83 11.93 4.98	16.79 1.36 21.94
Error	in Lat. ar	149.11	60.99	61.03	40.07	40.09

Closing error 1:3337

Survey completed June 2, 1916.

Surveyor - Draftsman

Form 85. Sheet No. 2. HOMESTEAD ENTRY SURVEY NO.

TRANSIT NATIONAL FOREST

STATE OF

Chains taewituos elim bos tuous soil blem deiti to 786 :8 .a . ine, trizone, the degreet post office, is an illes Material, and Elegater, dri one, the teasest reil 89.8 11.84 16.85 8.11.84 1. 10.85 8.40° 68. 7. 86.08 8.84° 60' 2. 88.8 10.63 -6 S.87 00 9: 20.00 -6 S.87 00 9: 20.79 -7 7.80 881 8. 16.89 -8 2.46 42 8. 16.89 -1 1 1.18 44 1. 17.80 E. BR As.II G. TT .afet . s anno besel moo gavib \_

### HOMESTEAD ENTRY SURVEY NO. 394

COCONINO NATIONAL FOREST

STATE OF ARIZONA.

Chains Direct Solar, June 1, 1916, at cor. No. 4, H. E. S. 394 of Thomas J. Willis. Lat. 34° 38' N., Long. 111° 23' W. Elevation 6900 ft. Telescope Time Horizontal Vertical Angle Sun Angle Direct 8h. 22m. 25s. 82° 34' 29° 35' 00" Reversed 8h. 23m. 10s. 82° 03' 30" 29° 11' 30" 8h. 22m. 47s. 82° 18° 45" 29° 23° 15" 1° 21" 29° 21' 54" / Decl. 22° 04' 26" sin. 22° 04' 26"
cos. 34° 38' x cos. 29° 21' 54" tan. 34° 38' x tan. 29° 21' 54" log. sin. 22° 04' 26" = + 9.574959 / log. cos. 34° 38' = - 9.915297 / log. cos. 29° 21' 54" = - 9.940274 9.719388 = log. .52407 log. tan. 34° 38' = log. tan. 29° 21' 54" = 9.839297 9.750251 9.589548 = log. .38864

Bearing of reference object, N. 0° 5' 45" W.

Cos. Q. = 82° 13' 13543

8 O

HOMESTEAD ENTRY SURVEY NO.

NATIONAL FOREST

STATE OF

Chains. Direct Dolar, fund 1, 1916, at tor. H . 4, it. I. S. 594 of Isomer J. Willis. Latigot 20' E. dang. 111° 25' W. Slovetaon to 111 .68 100 100 .88 .801 . 03 . 18 20 20 . 111 83. EER. 658. 88918' 46" -23° 26' 16 was too ogs . Ebots 109. 811. 22° 081 26" = + 8.574829 105. 805. 36° 36! = - 0.910197 106. 806. 84° 21' 36" = - 9.660374 186 . 186 . 186 . 187 . 188 .

## HOMESTEAD ENTRY SURVEY NO.394

## COCONINO NATIONAL FOREST

STATE OF ARIZONA

Chains

Direct Solar, June 2, 1916, at cor. No. 4,

H. E. S. 394, of Thomas J. Willis.

Lat. 34° 38' N., Long 111° 23' W. Elevation 6900 ft.

Telescope Time Horizontal Vertical Angle Angle Sun

Direct 76° 59' 00" 57° 09' 30" 9h. 37m. 14s. 0+

Reversed 9h. 38m. 13s. 77° 30' 00" 56° 48' 30"

9h. 37m. 43s. 77° 14' 30" 56° 59' 00" 30" ref. 56° 581 30" /

Decl. 22° 12' 45" N.

Cos. Q. = sin. 22° 12' 45"
cos. 34° 38' x 56° 58' 30" tan. 34° 38' x tan. 56° 58' 30"

log. sin. 22° 12' 45" = 9.577541 log. cos. 34° 38' = 9.915297 log. cos. 56° 58' 30" = 9.736401 9.925843 = log.

.84303

log. tan. 34° 38' = 9.839297 \ log. tan. 56° 58' 30" = \frac{10.187068}{10.026365} = \log.

1.06259

Cos. Q. = 77° 191/ .21956/

Bearing of reference object, N. 0° 4' 30" W.

Form 85 Sheet No. 2

HOMESTEAD ENTRY SURVEY NO.

NATIONAL FOREST

STATE OF

Chains Pissott Sh. 37a. Lea. 13° 591 00va gyo 691 els byn. 18s. The sail sail sail

8-2349

S. AREAS. Dracotrons.—1. Carry out calculation, 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 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. 1340 428 511 777 8 1831 20) 491 42 60 0.5 88 N. AREAS. 1340 728 477 134 Arizona D. 69 74 93 22 93 84 97 30 DOUBLE M. 35 40 88 20 45 27 2 H 0平 STATE 08 2, 936 79 60 WEST. 16 3 40 DEPARTURES . 394 15 18 03 75 98 07 0 EAST. 200 40 2 Q CS 4 TABLING AND CALCULATIONS OF HOMESTEAD ENTRY SURVEY NO 10 80 0.3 800 67 SOUTH. 9-9 27 19 0 4 LATITUDES. 130 16 57 66 09 24 10 NORTH. 333 DISTANCE. 2,15 10.85 26.05 3.00 39.79 33.59 16.39 17.29 149,11 国 M 国 M M E H 田 110 34' .00 40 081 34 0 06 421 160 44 33° 28 BEARING. 89 . 581 270 460 N Z 02 S ξΩ. S Form 85. Sheet No. 3.—Revised Feb., 1915. CORNERS 1-2 2 3 4-5 2-6 2-9 7-8 34 8-1 8-2349

83

Acres

29

74

79

17

33

### APPROVAL

Office of the United States Surveyor General,

Phoenix, Arizona, June 14, 1918.

The foregoing field notes of Homestead Entry Survey No.

394

executed by R. P. A. Johnson, Surveyor Draftsman [Forest Service Title.]
under his special instructions, dated July 9, 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.