## FOREST SERVICE

1 UUN3- 1914

## FIELD NOTES

OF

HOMESTEAD ENTRY SURVEY NO. 87 SITUATED IN THE

COCONINO NATIONAL FOREST ADMINISTRATIVE DISTRICT NO. 3

in

Se	ect	io	n.	1	4	,	-	- S	ur	ve	ye	d,	7	ow.	ms	hi	p -	2	2	N,	R	ar	nge	e	8	F	1	
 Se	ect	io	n	1	5	,	-	-3	ur	ve	y.e	d,		COL	ms	hi	p	2	2	N,	R	ar	ig.	e	3	E	1.	
_	-	_	_	and the	-	_	-	_	_	-	_	-	_	-	-	_	tops:	-	_	_		400	diana	*		_		
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of the

Gila and Salt River Base and Meridian.

ARIZONA

Survey executed by W. H. Finigan, Forest Service Surveyor.

Under special instructions dated	August 8 ,	1913
Survey commenced	October 21, ,	1913
Survey completed	October 23, ,	1913.
Under Acts of June 11, 19	006 and March 4, 191	3.
Applicant for listing J. S. Le B	ay	
Residence Flagstaff,	Arizona.	
Application No. 106 , dated		
List No. 3-642 , dated Augus	t 26 ,	1910
Applicant for survey J.S. Le	Ray	
Residence Flagsta	ff, Arizona.	
H. E. No. 012935 , dated December	r 29, 1910	182-
Land district Phoenix, Arizona	1.	8-2349

### OATH OF ASSISTANTS

We hereby certify that we assisted W. H. Finigan.  Forest Service Surveyor in surveying all those parts or portions of Homestead Entry Survey No. 87, in surveyed Section 14, Township 22 N, Range 8 E., surveyed Section 15, Township 22 N, Range 8 E., Range 8 E., and the G. & S. R. P. meridian, 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.
0140
The Tower
213 day
T. S.
1. 1900 Town as a second of the second of th
Subscribed and sworn to before me this 28th day of
May , 1914. (Shap H. Collams
My Commission expires Aug. 12, 1916 NOTARY PUBLIC
GOUNT - Britain - Britain - airl a slat him of the
OATH OF SURVEYOR
I.W.H.Finigan, Forest Service Surveyor, do solemnly swear that, in strict conformity with the special instructions of the United States Surveyor General for Arizona, dated August 8, 1913, and the laws of the United States, I have well, faithfully, and truly, in my own proper person, surveyed a tract of land upen the application of embraced in List, No. 3-642 dated August 26, 1910, for Patent, under the Act of June 11, 1906, the same to be known as Homestead Entry Survey No. 87, situated within the COCONINO National Forest, in -surveyed Section 14, Township 22 N, Range 8 E., and -surveyed Section 15, Township 22 N, Range 8 E.
of the G. & S. R. P. 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.
of the G. & S. R. P. 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.  W.H. Jinigare
of the G. & S. R. P. 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.  W.H. Jingare  Forest Service Surveyor.
of the G. & S. R. P. 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.  W.A. Truigare  Forest Service Surveyor.  Subscribed and sworn to before me this 26 day of
of the G. & S. R. P. 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.  Subscribed and sworn to before me this 26 day of May, 19/4.
of the G. & S. R. P. 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.  W.A. Truigare  Forest Service Surveyor.  Subscribed and sworn to before me this 26 day of

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## U. S. DEPARTMENT OF AGRICULTURE FOREST SERVICE

## FIELD NOTES

OF

HOMESTEAD ENTRY SURVEY NO. 87

SITUATED IN THE

COCONINO

NATIONAL FOREST

ADMINISTRATIVE DISTRICT NO. 3

In Section 14 , - surveyed, Township 22 N. , Range 8 E.

In Section 15 , - surveyed, Township 22 N., Range 8 E.

of the

Gila and Salt River Base and Meridian.

State of

ARIZONA

Applicant for listing

Residence

Application No.

, dated

, 19

List No.

, dated

, 19

Applicant for survey

Residence

H. E. No.

, dated

, 19

Land District

Survey executed by Charles D. Hodson,

Surveyor - Draftsman [Forest Service Title.]

Under special instructions dated

, 1915 June 2

Survey commenced

September 23, 1915

Survey completed

September 23, 1915

Under Acts of

June 11, 1906 and March 4, 1915.

132

We hereby certify that we assisted Charles D. Hodson,
Surveyor - Draftsman in surveying all those reestablishing cor. secs. To, Titel, 14 and 15, and 1/4 cor. bet. secs. 14 and 15
parts or pertions of Homestead Entry Survey No. 87, 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.

Buch Owens, Chainman

Subscribed and sworn to before me this

lst

day of

October

, 1915 .

Surveyor - Draftsman

OATH OF SURVEYOR

I, Charles D. Hodson,

Surveyor - Draftsman

[Forest Service Title.]

do solemnly swear that, in strict conformity with the special instructions of the United States Surveyor General for Arizona, dated June 2, 19.15, and the laws of the United States, I have well, faithfully, and truly, in my own proper person, surveyed a tract of land re-established core secse 10, 11, 14 and 15, and 1/4 core bete secse 14 and 15,

, No. , dated , 19 , for , under the Act of , 19 , the same to be known as Homestead Entry Survey No. 87 , situated within the COCONINO National Forest, in surveyed Section 14 , Township 22 No. , Range 8 Eo. , and surveyed Section 15 , Township 22 No. , Range 8 Eo. ,

of the **G. and S. R. B. and** 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.

arks DHodson

Surveyor - Draftsman.

[Forest Service Title.]

Subscribed and sworn to before me this

eight

day of

Otobe

, 19/5.

8—23

notary Public

1.

#### COCONINO NATIONAL FOREST

STATE OF ARIZONA Chains Applicant for listing; J. S. Le Ray; Application No. 106. dated February 16, 1909; List No. 3-642, dated August 26, 1910; Serial No: 012935, made in the Phoenix Land Office on December 29, 1910 by J. S. Le Ray. Surveyed under special, instructions from the Surveyor bester General for Arizona, dated August 8, 1913 and designated as Homestead Entry Survey No. 87. Situated in secs. 14 and 15, surveyed T. 22 N., R. 8 E., of the Gila and Salt River Base and Meridian, in the Coconino National Forest, Arizona. Surveyed under the Acts of June 11, 1906, March 4, 1913, g and March 4, 1915. apen to . 100 911 te gainnigod This survey was executed with a W. and L. E. Gurley light mountain transit equipped with a Burt solar ni sattachment. one al . soos . red . roo . ses a/1 end The distances were measured with a 200 and 400 link steel tape directly on the slope and the slope angles determined with a clinometer and and no atmiog Jes I The courses of this survey were deflected from the true meridian as determined by solar observation.

october 22, 1913, at 9h. 50m., a.m., 1.m.t., I observe the sun for azimuth at  $\infty$  r. No. 4 as follows:

Angle rt. from Obs. alt. Position Position Ref. pt. to Sun. Sun Sun Telescope

135° 40' 37° 16' 4 Reversed

Lat. 35° 18' N. Long. 111° 30' 15" W.

Therefore bearing of reference point is N. 11° 16' E.

I test the Burt solar on the meridian corresponding to
the above and find it to be in adjustment.

#### COCONINO NATIONAL FOREST

#### STATE OF ARIZONA TATE

Chains October 23, 1913, at 8h. 40m., a.m., l.m.t., I observe the sun for azimuth at cor. No. 3 as follows:

Angle rt. from Obs. alt. Position Position Ref. pt. to Sun Sun Telescope

164° 24' . 26° 32' Tedmose no solita Direct

164° 56' 27° 33' Blooms to Proversed

Coccaine National Forest, Arizona.

Lat. 35° 18' N. Long. 111° 30' 15" W.

Therefore bearing of reference point is N. 35° 30' W., which checks the courses from the meridian previously established.

October 21, 1913, p.m. to book end rebus bevevious

1918,

Beginning at the cor. of secs. 14, 15, 22 and 23, T. 22 N.,

R. 8 E., which is a malpais stone 10 x 10 x 8 ins.

above ground, marked and witnessed as described by the

Surveyor General; thence N. 88° 49' E. 40.77 chs. to

the 1/4 sec. cor. bet. secs. 14 and 23, which is in

sight, which is a malpais stone 10 x 9 x 8 ins. above

ground, marked 1/4 on North face. No witness objects.

I set points on this line for future reference.

Return to cor. of secs. 14, 15, 22 and 23, and run North on random line bet. secs. 14 and 15 and at 40 chs. fail to find any evidence of 1/4 sec. cor. and at 79.22 chs. fall 1.41 chs. E. of position for cor. secs. 10, 11, 14 and 15, which is missing but which I determine by running S. 70° 00' E.; 14 lks. from a 24 in. pine scribed T 22 N R 8 E S 10 B.T. The two other witness trees have fallen but the position of cor. as above determined is verified by course and distance to stump of one of the other witness trees, the markings of which I find on the fallen log. No evidence of the third witness tree was found.

.3.

#### COCONINO NATIONAL FOREST

#### STATE OF ARIZONA

Chains Therefore true line is S. 1° Ol. E., 79.23 chs.

I return on true line and set temporary points for future

"OO 'SE 'SE "OO 'SE 'OB . BEE . M. H. Finigan.

September 23, 1915.

Charles D. Hodson, Surveyor - Draftsman.

All courses in retracement of township line and restoration of corners in connection with H. E. S. No. 87

were run with a Buff and Buff transit No. 9700-6.

I test the adjustments of my transit and make necessary

All distances were measured on the slope with an 800 link Lufkin steel tape and the slope angles reduced to the horizontal with a clinometer.

September 23, 1915.

corrections.

At 4h. 50m. 35s. p.m., l.m.t., I observe the altitude of the sun for azimuth at the 1/4 sec. cor. bet. secs. 14 and 23. 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.

Latitude 35° 17' 30" N. Long. 111° 31' 10" W.

Telescope l.m.t. Horizontal Vertical Angle Angle
Direct 4h. 50m. 10s. 81° 04' 00" 12° 26' 30"

Reverse 4h. 50m. 59s. 80° 39' 30" 12° 50' 30"

Mean 4h. 50m. 35s. 80° 51' 45" 12° 38' 30"

Azimuth of sun at obsn., S. 80° 50' 24" W.

Bearing of reference object S. 0° Ol' 21" E.

At 4h. 52m. 07s. p.m., l.m.t., on the same date, I again observe the altitude of the sun for azimuth.

#### COCONINO NATIONAL FOREST

#### STATE OF ARIZONA

Chains	Telescope.			A	Angle			
SINGHI	Direct				19' 30"		05 1	30"
	Reverse	4h. 52m.	25s.	80°	52' 00"			00"
North and Marris profession organization and	Mean	4h. 52m.	07s.		05' 45"			45"
	Azimuth of	sun at o	bsn., S.	81° (	05' 20"	W.		
-arot	Bearing of	referenc	e point.	. S. 0°	00' 25	" E.		
	The mean of	these two	observa	ations	defines	an az	imutl	n
	within the	required	limits,	and f	from thi	s azim	uth	
	all course							

## O 8 as divergels and RETRACEMENT

R. 8 E., a malpais stone 10 x 10 x 8 ins. above ground, marked and witnessed as described by the Surveyor General.

At 4h. 50m. 55c. p.m., I.m.t.,

Thence N. 1° Ol' W.

On a random line bet. secs. 14 and 15.

- 8.39 Intersect cor. No. 3 and C. C. of this survey, a malpais stone 6 x 6 x 10 ins. above ground, marked and witnessed as hereinafter described.
- 16.84 Intersect cor. No. 6 and C. C. of this survey, a malpais stone 14 x 14 x 10 ins. above ground, marked and witnessed as hereinafter described.
- 40.00 Set temporary point for 1/4 sec. cor.
- 79.23 Intersect point for cor. secs. 10, 11, 14 and 15, which
  I determine by running S. 70° 00° E., 14 lks. from
  a pine tree 24 ins. dia., blazed and scribed as descrobed by the Surveyor General.

At this point I set a post 4 ft. long, 4 ins. square, marked T 22 N S 11 on NE. face; R 8 E S 14 on SE. face; S. 15 on SW. face; and S 10 on NW. face, with 2 notches on E. edge and 4 notches on S. edge. No new bearings

-2349

5.

#### COCONINO NATIONAL FOREST

#### STATE OF ARIZONA

Chains

available, therefore dig pits. 18 x 18 x 12 ins. in each sec. and raise a mound of earth, 4 ft. base, 2 ft. high, West of cor. . Taronof Toyovius end

Thence S. 1° Ol' E.

On true line bet. secs. 14 and 15.

39.615 Set a malpais stone 24 x 16 x 12 ins., 14 ins. in the

ground, over a stone marked with a cross, marked 1/4.

on West face, dig pits 24 x 24 x 12 ins. North and

South 3-1/2 ft. dist., and raise a mound of earth

4 ft. base, 2 ft. high, West of cor., from which:

A yellow pine 8 ins. dia., marked 1/4 S B T,

bears N. 78° 52' E., Ill lks. dist:

'A yellow pine 6'ins. dia., marked 1/4 S B T,

bears N. 21° 58' W:, 24 lks. dist.

Cor. No. 6 and C. C. of this survey. 62.39

Cor. No. 3 and C. C. of this survey. 70.84

Cor. secs. 14, 15, 22 and 23. 79.23

Surveyor - Draftsman

T) ance 'B. 68° 49' W.

October 22, 1913 ovode . and 8 x 8 x 4

W. H. Finigan. Tell hi bediroceb as besson

Beginning at cor. No. 1.

Identical with 1/4 sec. cor. bet. secs. 14 and 23, and cor. No. 7 of list, heretofore described, which I . chisel C C on NW. face and 1 - H E S 87 on side facing claim. No bearing objects available, therefore dig pits 18 x 18 x 12 ins. crosswise on section line, 3 ft. East and West of cor.; and raise mound of earth 3-1/2 ft. base, 1-1/2 ft. high, 3-1/2 ft. North of cor.

#### STATE OF ARIZONA

Chains Mag. Va. at 2 p.m., 15° Ol' E. Mean Mag. Va. 15° O3' E. .

Chains Mag. Va. at 2 p.m., 15° Ol' E. Mean Mag. Va. 15° O3' E. .

Chains Mag. Va. at 2 p.m., 15° Ol' E. Mean Mag. Va. 15° O3' E. .

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Chains Mag. Va. at 2 p.m., 15° Ol' E. Mean Mag. Va. 15° O3' E. .

Chains Mag. Va. at 2 p.m., 15° Ol' E. Mean Mag. Va. 15° O3' E. .

Chains Mag. Va. at 2 p.m., 15° Ol' E. Mean Mag. Va. 15° O3' E. .

Chains Mag. Va. at 2 p.m., 15° Ol' E. Mean Mag. Va. 15° O3' E. .

Thence S. 88° 49' W.

Along line bet. secs. 14 and 23, over level ground.

Thence S. 1º Ol' H.

12.00 Road bears NE. and SW. at x as enote staglem a jed cla.es

12.40 Wire fence bears NE. and SW., enter plowed ground.

34.95 Wire fence bears NW. and SE., leave plowed ground.

35.03 To cor. No. 2 and C. C. on line bet. secs. 14 and 23.

A malpais stone 24 x 13 x 6 ins., set 14 ins. in ground, over stone marked +, chiseled C C on NW. face, 3 grooves on S. face and 2 - H E S 87 on side facing claim; raise mound of stone 2 ft. base, 1-1/2 ft. high, 3-1/2 ft. N. 35° 30' W. of cor., whence:

A pine 30 ins. dia., scribed 2 H E S 87 C C B T, bears N. 37° 32' W., 107 lks.

A pine 34 ins. dia., scribed 2 H E S 87 C C B T, bears S. 75° 24' W., 210 lks.

No other bearing objects available. Pits impracticable.

Cor. No. 1 of list, which is a malpais stone

4 x 8 x 8 ins. above ground, marked and wit
nessed as described in field notes of list
ing survey, bears N. 35° 30° W., 6 lks.

Destroy all trace of List cor.

Cor. secs. 14, 15, 22 and 23, heretofore described, hears S. 88° 49' W., 5.74 chs.

Thence N. 35° 30' W. and an al x 81 x 81 x 81 aliq

Over level ground. . 100 to teel bus just

0.50 Wire fence, bears NW. and SE., enter plowed ground.

olaim. No bearing objects available, therefore dir

.7.

#### COCONINO NATIONAL FOREST

#### STATE OF ARIZONA

Chains
10.11 To cor. No. 3 and C. C. on line bet. secs. 14 and 15.

A malpais stone 24 x 6 x 6 ins., set 14 ins. in ground, over stone marked +, chiseled C C on SE. face, 2 grooves on E. face, and 3 - H E S 87 on side facing claim; raise mound of earth 4 ft. base, 2 ft. high, 3-1/2 ft. S. 35° 30' E. from cor., whence:

A pine 30 ins. dia., scribed 3 H E S 87 C C B T, bears S. 24° 03' W., 143 lks.

A pine 33 ins. dia., scribed 3 H E S 87 C C B T, bears S. 87° 21' W., 180 lks.

No other bearing objects available. Pits
: somethy ; misto ministry . see
impracticable.

Cor. secs. 14, 15, 22 and 23, heretofore described, bears S. 1° Ol' E., 8.39 chs.

Position for cor. secs. 10, 11, 14 and 15, bears N. 1° Ol' W., 70.84 chs.

Over level ground.

Thence N. 35° 30' W.

1.00 Wire reace, bears WI. and sw., . one erik co. I

7.96 To cor. No. 4. ted enil no . U. on a . Too of

Pire Laprace

Identical with cor. No. 2 of list, which is a pine
26 ins. in dia., scribed H/2, witness trees have been
cut down but stumps are as described in field notes
of list survey. Destroy marks and scribe same tree
+ 4 - H E S 87 on side facing claim; raise mound of
earth 4 ft. base, 2 ft. high, 3-1/2 ft. dist. within
claim, whence:

bears S. 41° 15' W., 71 lks.

A pine 24 ins. dia., scribed 4 H E S 87 B T, bears S. 59° 10' E., 128 lks.

Chains Lat. by Burt solar at 12 M., 35° 18' N. brs 4f . sees . Jed enil no . 0 . 0 bns & .ou . ros of ff.O.

Thence N. 11° 13' E.

Over level ground.

rooves on I. face, and Wire fence, bears NE. and SW., leave plowed ground. 1.35

To cor. No. 5. 4.45

> Identical with cor. No. 3 of list, which is a pine 17 ins. in dia., marked and witnessed as described in field notes of listing survey. Destroy marks and scribe same tree + 5 - H E S 87 on side facing claim; raise mound of earth 4 ft. base, 2 ft. high, 3-1/2 ft. o gnirsed redic o dist. within claim; whence:

& malpais stone 24 x 6

over stone marked +, caisele

.il A direc to brown esist : misio

A pine 26 ins. dia., scribed 5 H E S 87 B T, bears S. 65° 05' W., 55.5 lks.

A pine 20 ins. dia., scribed 5 H E S 87 B T, bears N: 2° 10' W:, 11.5 lks.

bears M. 1° 01' V., 70.84 chs.

Thence S. 56° 33' E.

Over level ground.

Wire fence, bears NE. and SW., enter plowed ground. 1.05

To cor. No. 6 and C. C. on line bet. secs. 14 and 15. 4.30

A malpais stone 24 x 14 x 14 ins., set 14 ins. in ground over stone marked +, chiseled C C on NW. face, 2 grooves on E. face, and 6 - H E S 87 on side facing claim; raise mound of earth 4 ft. base, 2 ft. high, 3-1/2 ft. N. 56° 33' W., from cor., whence:

A pine 14 ins. dia:, scribed 6 H E S 87 C C B T,

A pine 24 ins. dia., scribed 6 H E S 87 C C B T, bears N. 17° 47' W., 232 1ks.

No other bearing objects available. Pits impracticable. SI .. Tor ed .2 ersed

#### COCONINO NATIONAL FOREST

#### STATE OF ARIZONA

Chains . 8 Cor. secs. 14, 15, 22 and 23, heretofore described, bears S. 1° 01' E., 16.84 chs. Position for cor. secs. 10, 11, 14 and 15,

Thence S. 56° 33' E.

Over level ground in plowed field. no thouse out dv. a

Identical with cor. No. 4 of list, which is a pine 28 I lins. in dia., marked and witnessed as described in field notes of listing survey. Destroy marks and scribe same tree. + 7 - H E S 87 on side facing claim; raise mound of earth 4 ft. base, 2 ft. high, 3-1/2 ft. . The standist within claim, whence three to haven estar

> A pine 8 ins. dia., scribed 7 H E S 87 B T, T a ve bears N. 11° 35' W., 111.5 lks.

A pine 20 ins. dia., scribed 7 H E S 87 B T, bears N. 89° 00' E., 182.5 lks.

Thence S. 66° 24' E.

Over level ground, along wire fence and along edge of plowed field. .basorn Level revo

6.45

Po cor. No. 8. sener snots senset, tenes, wire fence, 8 .or. Identical with cor. No. 5 of list, which is a malpais stone 4 x 12 x 10 ins. above ground, marked and witnessed as described in field notes of listing survey. Destroy same and set a malpais stone 24 x 12 x 12 ins. 14 ins. in ground, over stone marked +, chiseled 8 - H E S 87 on side facing claim; raise mound of stone 2 ft. base, 1-1/2 ft. high, 3-1/2 ft. dist. within claim; whence:

> A pine 12 ins. dia., scribed 8 H E S 87 B T, bears N. 54° 27' W., 175 lks.

STATE OF ARIZONA

Chains - A pine 18 ins. dia., scribed 8 H.E.S 87 B T, and sol . do bears N. 12° 07' E., 363 lks. Position for sor, sees. 10, 41, 14 and 15, Thence N. 41° 08' E. . . 10 11 . BIRG Over level ground, leave fence and plowed ground. Theree 81 56° 55' L. 1.00 Ascend SE. slope ridge. 3.75 Top ascent on ridge, bears NW. and SE., descend. Foot descent, over level ground. . Y . ON . 100 ON AY, SI 5.50 To cor! No. 9. . Tell to A .of . 100 diw facithebi 8.85 Identical with cor. No. 6 of list, which is a pine 12 ins. in dia., marked and witnessed as described in field notes of listing survey. Destroy marks and scribe same tree + 9 - H E S 87 on side facing claim: raise mound of earth, 4 ft. base, 2 ft. high, 3-1/2 ft. ' dist. within claim; whence: . and a said A A pine 18 ins. dia., scribed 9 H E S 87 B T, bears S. 58° 20' W., 50 lks. A pine 12 ins. dia., scribed 9 H E S 87 B T, bears N. 72° 45' W., 63 lks. Thence S. 55° 09' E. IN MADIE . AMBOTA LOVEL YEVO Over level ground. 2.93 Intersection of wire fence, bears SW. 4.30 Intersection of wire fence; bears Sw. 5.55 Cor. wire fence, leave fence. 10.05 Road, bears NE. and SW. M. a dea has been vorteed 10.30 To cor. No. 1, the place of beginning. 22.83 Lat. at 11h. 44m., a.m., 1.m.t., by Burt solar

bears N. 54° 27' W., 175 1ks.

2 ft. base, 1-1/2 ft. high, 5-1/2 1. 181 .08 Uh

A pine 12 ins. dis., seribed 8 H E S 87 B C

-2340

# HOMESTEAD ENTRY SURVEY NO. 87 COCONINO NATIONAL FOREST

## STATE OF ARIZONA

Chains	VAREAS CORAC	Chains
113	Area in sec. 14, T. 22 N., R. 8 E 34.68	acres
	Area in sec. 15, T. 22 N., R. 8 E 2.79	acres
	Total area H. E. S. No. 87 37.47	acres
	Howeter on claim, the natural precipitation being	
hold	depended upon to release amprovements for node pepreden	
	The improvements on this claim, all of the claimant	
	herein, consist of the following:	
ja	A log house, the NE. cor. of which bears from cor.	No. 9
	S. 40° 55' E., 1.05 chs., 12 x 15 ft., course of	
	side S. 45° W. ed of awomd to bevreado Isranim ok	
Altrodrigo (gg. n. administratori de laggicio	Value \$25.0	00
	A frame house, the NE. cor. of which bears from con	c. No.
42,	9; S. 22° 25' E., 1.05 chs., 10 x 16 ft., course	of
star	long side S. 70° W. cee310 .ch isined xineon9	
by	osis bus , withe bus Value teat to the and sales	.00
-58	A frame shed, the NE. cor. of which bears from cor.	No.
	9, S. 20° 55' W.; 2.20 chs., 10 x 12 ft., course	
	long side North. Bainioids aword smisis rento of	
. TT.	value - bejastis st vovias \$ 25.	.00
. bao	A pole barn, the NE. cor. of which bears from cor.	No.
	9, S. 44° 55' E., 5.00 chs. 20 x 24 ft., course	of
	long side, N. 60° W.	
Active processing the later of the con-	Value \$ 15	.00
	A log house, partly completed, the NE. cor. of which	eh
	bears from cor. No. 9, S. 36° 45' W., 3.80 chs.,	
	18 x 20 ft., course of long side N. 20° E:	
Sa.	Value \$ 10	.00
	About one mile of wire fence, partly outside of cl	
18.	Value \$100	
fo.	Total estimated value of improvements \$225	•00

#### COCONINO NATIONAL FOREST

#### STATE OF ARIZONA

DESCRIPTION Chains This claim lies in a shallow valley and is practically level . -- The soil consists of a volcanic cinder. coros No timber on claim. - - 78 .ou . 8 . H sers fator No water on claim, the natural precipitation being depended upon to raise crops; and water for household muse is hauled of mists sint no strong vorce all The claim is used for agricultural purposes and is chiefly valuable for such. The claimant has about and 35 acres under cultivation. No mineral observed or known to be on claim. . oll . op mort ersed der ADJOINING CLAIMS , senod emert a This survey is bounded on the South by List No. 3-642, Phoenix Serial No. 012935 of claimant herein, and this olosurvey is a part of that list and entry, and also by List 3-2016, Phoenix Serial No. 023316, which is ad-To editional to said Entry 012935. No other claims known adjoining or nearby. This survey is situated about 10 miles from Flagstaff, Arizona, and is readily reached by a good wagon road. No other nearby settlements. TRAVERSE IN SECTION 15. A log house. Sta. Course Dist. N. S. B. E. S. B. C. 0.87 4-5 N. 11° 13' E. 4.45 4.36 0.87 5-6 S. 56° 33' E. 4.30 2.37 3.59 6-3 S. 1° 01' E. 8.45 3-4 N. 35° 30' W. 7.96 6.48 8.45 0.15 4.62 .mi le 10 enistre vitte 25.16 10.84 10.82 4.61 0 4.62 4.61 10.82 00.00L8 ----10. Total estimated val Error in Lat. and Dep. . 02 Error of closure 1:1123.

145

#### COCONINO NATIONAL FOREST

#### STATE OF ARIZONA

Chains				T	RAV	ERSE	IN	SECTION	14.		talen
	Sta.		Cou	rse		Dis	st.	N	S	E	W
								8.45			0.15
	7-8	S.	66°	241	E.	12.	45			5.91	
	9-1	S.	41° 55°	091	E.	22.	83	6.67	13.05	5.82	
	2-3	S.	88° 35°	30'	W.	35.	03	8.23	0.72		35.02 5.87
						104.	46	23.35		41.10	41.04
	Erro	r i	n La	t. a	nd :	Dep.			.02	.06	
	Erro	r o	f cl	sur	e 1	:1654					
					TR.	AVERS	E C	F CLAIM			
	Sta.		Cou:	rse		Dis	t.	N	S	E	W
		N.	35°	301	W.	18.	07	14.71 4.36	0.72	0.87	35.02 10.49
	7-8 8-9	S. S.	56° 66° 41°	33 ' 24 ' 08 '	E.	17. 6. 8.	04 45 85			14.22 5.91 5.82	
	9-1	S.	55	091	E.	22.			13.05		
						112.	72	25.74	25.74	45.56 45.51	45.51
	Erro	r ir	1 Lat	a.	nd ]	Dep.		.00		.05	
	Erron	c of	clo	sure	9 1:	2254					
	Ann	lian	rane	nar	het	100000	+2	ogo fiel	d moto		h a m a

Any discrepancy between these field notes and those of the listing survey is due to error in the latter.

Forest Service Survey or.

-0240

NATIONAL FOREST

STATE OF

ins		14.	HOIDDE	Mi LORE	VAME.	
All	T		II	.daid	. Course	
30.35	10.68 5.91 8.88 18.74	7.02 2.38 13.05 0.78	6.67	12.74 6.45 8.85 82.95 88.03	S. 56° 38' H. S. 56° 84' L. M. 41° 08' S. 55° 09' Y. S. 88° 49' W.	2-6-7 6-7 8-9-7 21-1 21-1 21-1 3-1
43.04		25.35	88.88	2.04.46		
	30.	so.		, dec	The . JaI ai To	MIL
				1654.	I entrole to he	D'TTE
			MI AID W	o memory	U107	
39	ā	8	M	Diet.	estino0 .	.stā
56.02 10.49	6.87 14.82 5.91 5.62 18.74	0.72 9.39 2.58 15.05	4.36	55.05 18.07 4.45 17.04 6.45 6.85 8.85	S. 98° 49' W. M. 88° 60' W. H. 18' M. S. 56° 33' 21. M. M. 41' 08' E. M. M. 41' 08' E. S. 55° 09' H.	246789 246789 1
45.51	45.56 45.51	25.74	25.74	27.811		
	d0.		00.	• del	I bns . Jal ni to	DINE
				2254	r of closure 1:	
					discrepancy bet	

#### COCONINO NATIONAL FOREST

```
STATE OF ARIZONA
Chains
            Computations - Charles D. Hodson - Surveyor
                               Draftsman.
      Direct Solar at 1/4 sec. cor. bet. secs. 14 and 23,
        T. 22 N., R. 8 E., Gila and Salt River Base and Meridian.
      September 23, 1915.
           l.m.t.
                          Horizontal Angle Vertical Angle
                           4h. 50m. 10s.
      4h. 50m. 59s.
2)9h. 41m. 09s.
4h. 50m. 35s.
                                          ref. 3' 19"
Alt. 12° 35' 11"
      Elevation 6700 ft.
      Lat. 35° 17' 30" N., Long. 111° 31' 10" W. = 7h. 26m. 05s.
      7h. 26m. 05s. + 4h. 50m. 35s. = 12h. 16m. 40s. = 12h.28
      58".4 \times 12.28 = 0° 11' 57".2.
      0° 15' 07".4 - 0° 11' 57".2 = 0° 03' 10".2, decl.
                 0° 03' 10"
      Log. sin.
                             = 6.961670
      log. cos. 35° 17' 30"
                              = 9.911808
      log. cos. 12° 35' 11"
                              = 9.989436
                                 7.060426
                                            .00115
      log. tan. 35° 17' 30" = 9.849924
log. tan. 12° 35' 11" = 9.348844
9.198768 .15804
                                 Cos. A = .15919
                                          80° 51' 45"
                                   A. =S.80° 50' 24" W.
        Bearing of Reference point = S. 0° 01' 21" E.
           1.m.t.
                         Horizontal Angle
                                            Vertical Angle
```

4h. 51m. 5 4h. 52m. 2 2) 9h. 44m. 1 4h. 52m. 0	25s. 80° 25s. 162°	19' 30" 52' 00" 11' 30" 05' 45"	24° 12° ref.	05' 30" 32' 00" 37' 30" 18' 45" 3' 25" 15' 20"
Log. sin. 0 log. cos. 35 log. cos. 12	° 17' 30" =			
log. tan. 35 log. tan. 12	° 15' 20" =	Sos. A. = 81° 81° = S.81°	.15375 .15490 05' 45" 05' 20" W.	

#### NATIONAL FOREST

## STATE OF

```
Toyovina - nosbolt . C. selied - snotstumed - seried
Chains
                              .memetisid
         Direct Solar at 1/4 sec. cor. bet. secs. 14 and 25
T. E. H. . B. . . . . Gila and Salt Biver Base and Jeridian
                                                September 25, 1916.
      efina issifteV eigna istrosiroH
                          100 201 30 M
      "08 '17 '08 '8
"08 '88 '87 '8
      ref. 5: 19"
                                                   Elevation 6700 ft.
Lat. 55% 17' 50" N. Long. 111" 51' 10" W. = Va. Elm. Obs.
   7a. 86m. Obs. + 4h. 50m. Mas. = 12h. 16m. 40s. = 12h. 88
                                  68".4 x 18.28 = 0" 11" 57".8.
      0° 15' 07".4 - 0° 11' 87".2 = 0° 03' 10".2, 8001.
                            log. sos. 28° 17' 30" = 6.961670
log. sos. 28° 17' 30" = 9.91808
log. cos. 12° 38' 11" = 9.989436
7.060426
                 .00116
                            log. tan. 12° 25' 17' 30" = 9.849924
log. tan. 12° 35' 11" = 9.848844
9.198768
                .15804
                 000. A = 1.000
             A. =5.86" 80' 84" W
            Bearing of Reference point = S. 0° 01' 21" 1.
                                                          .d.m.f
                            4h. 5lm. 50s. 8l, 19, 80, 40. 52m. 5bs. 80, 52 00, 62 00, 63 00, 64 0. 52m. 07s. 81 05, 45, 65
             188 -81
           181 31
           · 181 -31 · 181
                             log. cos. 35° 17' 30" = 6.961670
log. cos. 35° 17' 30" = 9.918090
log. cos. 12° 15' 20" = 9.988988
                   angoo.
                  log. tan. 12° 15' 20" = 9.849924

log. tan. 12° 15' 20" = 9.356905

9.166929 .15575

dos. A. = .15490

81° 05' 45"
                 Besting of Heference Point = 8. 0° 00' 25" 4.
```

```
Observation at 9:50 A.M. Oct.22, 1913. Lat.35°18'
+rt. to sun obs. alt. sun
135° 12' 37° 33' direct
135° 40' 37° 16' reverse
135° 12'
135° 40'
2 270° 52'
                                   reversed.
                  2)74° 49' 37° 24'30"
          Refrac. 1'16"
True alt.37° 23'14"
Decl.app.noon Greenwich = 10°56'12.8"
    Dif 5 hr. 20 min. 4'43.79"
11°00'56.59"
  Decl.at 9:50 A.M.
sin. 11° 01' = 9.2812483 tan.35°18' = 9.8500575 cos. 35° 18' = 9.9117634 tan.37°23'10"= 9.8831921
cos. 35° 18' = 9.9117634
9.3694849
cos.37°23'10" = 9.9001277
9.4693572
                                                        .54106
                                                         .29468
                                                       -.83574 = 33° 18'
                     .29468
Course to sun S. 33° 18' E.
⊬left to Ref.
Course to ref. 135° 26'
          pt. = N. 11° 16' E.
27° 33' reversed
2 ) 54° 05'
27° 02'30"
 2 329° 20'
164° 40'
                                1'52"
                         270 00128"
Decl. app. noon Greenwich =11° 17' 25.1"

Dif. for 4 hr.10 min

Decl. at 8.40 A.M. 11° 21' 13.1"
                                         tan 35° 18' -9.8500575

5an 27° 0'30"-9.7073220
sin 11° 21' 10" = 9.2941340
                      = 9.9117634
cos. 35° 18'
                                                              9.5573795
                          9.3823706
cos 27° 0' 30"
                        = 9.9498487
                                                                .36089
                          9.4325219
                            .27072
                                                                 .27072
                                                              -.63161 - 50°50'
Course to sun S. 50° 50' E.

2 left to ref.point 164° 40'

Course to ref. " N. 35° 30' W.
```

Observation at 9:50 A.M. Oct.22, 1913. Lat.35°18' 47t. to sun obs. alt. suns.
135° 12' 87° 33' direct 40' 87° 16' 87° 16' 82' 30" 87° 24' 30" Refrac. 1'16" True alt.37° 25'14" Deci.app.noon Greenwich = 10°56'12.8"

Dif o hr 20 min. 4"45.79"

Deci.at 9:00 A.M. 11°00'66.59" sin. 11° 01' - 9.2812483 cos. 35° 18' - 9.9117634 9.5094849 cos. 37°23'10" - 9.9001277 9.4693572 Course to ref. 138° 26' Course to ref. pt. - 1.1° 16' Observation at 8:40 /P. M. Oct. 25, 1913. Lat. 35° 18'

rt. To sun Obs. alt. sun
164° 24' 250° 35' reversed
2. VESQ 20' 2) 54° 05'
2. VESQ 20' 2) 54° 05'
31'52°
31'52°
31'52° Deci. app. moon Greenwich -11° 17' 25.1"

Dif. for 4 hr.10 min 3' 48.0"

Deci. at 8.40 A.K. 11° 21' 15.1" sin 11° 21' 10" = 9.2941'40
cos 35° 18' = 9.9117634
9.3823766
cos 27° 0' 30" = 9.9498487
9.4328219
.27072 tan 35° 18' -9.8500570

ban 27° 0'3049.3073220

9.55737995 '08908 - TOTES. Course to sun S. 50° 50' B.

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.

3. In balancing Latitudes and Departures above in red ink. Do not change the footing of the original figures, but put below them the corrected four red ink.

The true corrected figure or figures should be proportional to the lengths of the District Office, the Surveyor General, and the Commissioner.

4. Only three copies of this tabulation are necessary, for the District Office, the Surveyor General, and the Commissioner.

				2	23		2	8	7	8	9 acres.				7	4			-	39	52	- 9,	68 acres.	
S. AREAS.				12 63	76 82		89 45	33 68	2)55 77	27 88	2 79				826 87	53 44			1004 91	311 3	2) 693 5	1000	34 6	
N. AREAS.			3 79			29 89	33 68				Area			259 26			50 86	72 L	311 39				Area -	
DOUBLE M. D.			0 87	5 33	9 08	4 62						10 62	27 15	28 8 <b>%</b>	63 41	47 10	6 18	0 15	-69-11-9					
URES.	West.					4 62	4 62	462								35 02	5 87	0 15	41 04	4137				
DEPARTURES	East.	. 15.	0 87	3 59	0 15		4 61	4 62		3. 14.		10 63	5 91	5 82	18 74				41 10					
IDES.	South.	Area in Sec.		2 37	8 45		10 82	10 83		Area in Sec.		7 02	2 58		13 05	0 72			23 37	3335				
LATITUDES.	North.		4 36			6 48	10 84	10 83						6 67			8 23	8 45	23 35	23 35				
DISTANCE.			4.45	4.30	8.45	7.96	25.16					12.74	6 .45	8.85	22,83	35.03	10.11	8.45	104.46					
BEARING.			N. 11° 13' E.	S. 56° 33' E.	S. 1º 01' E.	N. 35° 30° W.						S. 56° 33' I.	S. 66° 241 E.	!	S. 55° 09' E.	S. 88° 49° W.	N. 35° 30' W.	N. 1° 01' W.						
CORNERS.			4-5	5-6	6-3	3-4						6-7	7-8	8-9	9-1	1-2	22-23	3-6						

10 01. N. 10 11 26 12 2 2	o ca	3 S 1 S 1 S 1 S 1 S 1 S 1 S 1 S 1 S 1 S	3 A8	A W SIRDOU	PERVERTIBES.	Every Deny	Sector Se	4.30 4.45 DETANCE	H. Jie 18, B.
T. OI. M. 8 '22 SA 47 TO 47 OF 217 42 SEC 84 SEC 85 SEC 86	15	0	0		9		Constant Control	25.16	
1. 01. 1. 8.72									
To of: 12. 18.14	17	00(							
7. 01. W. 872 S2 SA 47 TO 47 ON 357-85- S71 S5 F0 20 B5 EA F1. 08. E S2. M. F1. 08. E S2. M. F2. 00 TS EA F1. 08. E S2. M. F2. 00 AS EA F2. M. F2. 08. E S4. E S2. M. F2. 08. E S4. E S2. E S4. E S4. E S2. E S4. E S		200				-	D O		
10 01. M. 8 72 24 47 10 41 04 331-89- 314 25 1004 81 1	Seros		3971						
To of. M. 8 '82 '82 '82 '82 '84 '94 '84 '85 '85 '84 '84 '84 '85 '85 '85 '84 '84 '84 '85 '85 '85 '85 '85 '85 '85 '85 '85 '85				0				50	560 221
7. 67. 2. 8. 62 8. 8. 8. 8. 8. 8. 8. 8. 8. 8. 8. 8. 8.						Cu		0 P. 0	66° 841
7. 67. M. 88.42 88 82 83. 47.70 47 04 355-25- 237, 23 7004 35 7007 88.42 89.43.10 88.2 80.3 84.70 47 04 355-25- 237, 23 7007 35 7007 3			0					63.8	\$T. 081
100.46 S2 S2 S4 47 TO 47 OF S25 S4 67 TO 47 OF S25 S4 85 S25 S4 67 TO 47 OF S25 S5 TO 47 S5 S25 S5 S25 S5 S25 S5 S25 S5 S25 S5 S25 S2	2.7	35				œ		82.82	. 55° 091
Jov. 40     S2 S2     S2 S2 S2     S2 S2     S2	वर्ष			3	CJ			85.08	880 491
1004.45   12   10   41   10   41   10   10   10   10			a	h				10.17	22° 201
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- 24 68 sors	36	698							
- इस् हिंड इस्टाइड									
	SCIOS		1 SOIA						

. ORIGINA - GROSDING - GOGORING .

TABLING AND CALCULATIONS OF HOMESTEAD ENTRY SURVEY NO. .... 87

152

#### APPROVAL

	Office of the United States Surveyor General,
	Phoenix, Arizona, March 17 , 1916 .
	The foregoing field notes of Homestead Entry Survey No.
	87 07
	J. S. Le Ray
	executed by W. H. Finigan, Forest Service Surveyor.
ind	under his special instructions, dated <u>August 8</u> , 1913, Charles D.Hodson, Surveyor-Draftsman, under Ins. dated June 2,1915 having been critically examined, and the necessary correc-
	tions and explanations made, the said field notes, and the
	surveys they describe, are hereby approved.
	Shank D Short
	U. S. Surveyor General.
	I certify that the foregoing transcript of the field
	notes of the above-described survey in Arizona,
	has been correctly copied from the original notes on file in
	this office.
	Frank P. Trott,
	8-2349 U. S. Surveyor General.

The second of th