

U. S. DEPARTMENT OF AGRICULTURE

FOREST SERVICE

236 - old  
239  
240 add

**FIELD NOTES**

OF

HOMESTEAD ENTRY SURVEY NO. 231

SITUATED IN THE

APACHE NATIONAL FOREST

ADMINISTRATIVE DISTRICT NO. 3

in

Section 4, un surveyed, Township 1 S., Range 30 E.,

of the

Gila and Salt River Base and Meridian.

**ARIZONA**

Survey executed by C. A. Long, Surveyor - Forest Service

Under special instructions dated August 6, 1914

Survey commenced November 21, 1914

Survey completed November 23, 1914

Under Acts of June 11, 1906 and June 30, 1914

Applicant for listing George W. Burns,

Residence Clifton, Arizona

Application No. 57, dated March 23, 1908

List No. 3-2705, dated July 31, 1913

Applicant for survey George W. Burns,

Residence Clifton, Arizona

H. E. No. 024515, dated April 25, 1914

Land district Phoenix, Arizona

OATH OF ASSISTANTS

We hereby certify that we assisted C. A. Long,  
Surveyor - Forest Service in surveying all those  
parts or portions of Homestead Entry Survey No. 231, in  
unsurveyed Section 4, Township 1 S., Range 30 E.,  
surveyed Section -----, Township -----, Range -----,

of the G. & S.R.B. & 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 sur-  
vey 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 fur-  
nished by the United States Surveyor General for Arizona.

Note: It would have been  
very expensive and incon-  
venient to appear before  
an officer to administer  
the oaths to the Assistants;  
hence, they were taken  
by the Surveyor.

Subscribed and sworn to before me this 24th day of  
November, 1914.

C. A. Long  
Surveyor - Forest Service

OATH OF SURVEYOR

I, C. A. Long, Surveyor - Forest Service, do solemnly swear  
that, in strict conformity with the special instructions of  
the United States Surveyor General for Arizona, dated  
August 6, 1914, and the laws of the United States, I have  
well, faithfully, and truly, in my own proper person, sur-  
veyed a tract of land ~~upon the application of~~ embraced in  
List, No. 3-2705, dated July 31, 1913, for  
Patent, under the Act of June 11, 1906,  
the same to be known as Homestead Entry Survey No. 231,  
situated within the APACHE National Forest, in  
un surveyed Section 4, Township 1 S., Range 30 E., and  
surveyed Section -----, Township -----, Range -----,

of the G. & S.R.B. & 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 perpet-  
uated in strict accordance with the stated special instruc-  
tions, and in the specific manner described in the field  
notes, and that the following are the original field notes  
of such survey.

C. A. Long  
Surveyor - Forest Service

Subscribed and sworn to before me this 11th day of

January, 1915.

Elsie C. Myers  
Notary Public



S-2219

## APACHE NATIONAL FOREST

STATE OF ARIZONA

Chains

Applicant for listing, George W. Burns. Application  
No. 57, dated March 23, 1908; List No. 3-2705, dated  
July 31, 1913. H. E. No. 024515 made at Phoenix,  
Arizona, April 25, 1914.  
Surveyed under Special instructions from the Surveyor  
General for Arizona, dated August 6, 1914, and design-  
ated as Homestead Entry Survey No. 231.  
Situated in what will probably be, when surveyed, Sec. 4,  
T. 1 S., R. 30 E., Gila and Salt River Base and Meridian,  
Apache National Forest, Arizona.  
Surveyed under the Acts of June 11, 1906 and June 30, 1914.

Survey commenced November 21, 1914 and executed with a  
W. and L. E. Gurley light mountain transit No. 11920  
provided with a full vertical circle and a horizontal  
limb having two double verniers placed opposite each  
other, and reading to single minutes of arc, which is  
also the least count of the vertical circle readings.  
I test the adjustments of the transit and make necessary  
corrections.

All measurements were made directly on the slopes with a  
500 link Lufkin steel tape, and the slope angles deter-  
mined with a clinometer, the horizontal distances alone  
appearing in these notes.

November 21, 1914.

At Cor. No. 1 of this survey, I observe the altitude of  
the sun for azimuth. The sun is to left of reference  
mark. My watch is set for local mean time. The sun  
was observed in the upper left, lower right, upper  
right and lower left quadrants of the field. Longitude  
by account from Land office map is  $109^{\circ} 16' 30''$  W.

8-2349

## T. 1 APACHE JCT NATIONAL FOREST

STATE OF ARIZONA

Chains	Latitude from observation on sun $33^{\circ} 21' 55''$ N. (1)
Telescope	l.m.t. Vertical Angle
Direct	<u>8h. 50m. 50s.</u> <u><math>22^{\circ} 53' 00''</math></u> <u><math>91^{\circ} 41' 00''</math></u>
Reversed	<u>8h. 52m. 28s.</u> <u><math>22^{\circ} 34' 30''</math></u> <u><math>91^{\circ} 57' 30''</math></u>
Means	<u>8h. 51m. 39s.</u> <u><math>22^{\circ} 43' 45''</math></u> <u><math>91^{\circ} 49' 15''</math></u> (2)
Direct	<u>8h. 54m. 00s.</u> <u><math>23^{\circ} 20' 00''</math></u> <u><math>91^{\circ} 38' 30''</math></u>
Reversed	<u>8h. 55m. 49s.</u> <u><math>23^{\circ} 02' 20''</math></u> <u><math>90^{\circ} 41' 30''</math></u>
Means	<u>8h. 54m. 54s.</u> <u><math>23^{\circ} 11' 10''</math></u> <u><math>91^{\circ} 10' 00''</math></u>
Bearing of reference mark by (1) S. $47^{\circ} 31' 52''$ W.	
Bearing of reference mark by (2) S. $47^{\circ} 30' 45''$ W.	
Mean	S. $47^{\circ} 31' 19''$ W.

At Cor. No. 1 of this survey, I place the telescope

of my instrument in the meridian and observe the time  
and altitude of the passage of the sun's lower and west,  
upper and east, limbs across the vertical cross wires  
for time and latitude.

Telescope	Watch	Time	Vert. Ang.
Lower and W. limb	Direct	11h. 43m. 15s.	$36^{\circ} 50'$
Upper and E. limb	Reversed	11h. 45m. 35s.	$36^{\circ} 18'$
Means		11h. 44m. 25s.	$36^{\circ} 34'$

From this observation, I calculate the Latitude to be  
 $33^{\circ} 21' 55''$  N. and my watch is l.m. 39s. slow on l.m.t.

On November 22, 1914, I witness and to I. M. T. C. A.

I begin at list cor. No. 1, which is a malpais stone  
 $12 \times 12 \times 10$  ins. in a mound of stone, marked and wit-  
 nessed as described by the Forest Service. I destroy  
 the list cor. and witnesses thereto and set a malpais  
 stone  $26 \times 18 \times 12$  ins. in a mound of stone for cor.

No. 1 of this survey, marked l-HES231 on SE. face and

## APACHE NATIONAL FOREST

STATE OF ARIZONA

Chains across (+) on top, and raise a mound of stone 4 ft. base,  
 2 ft. high, 3-1/2 ft. dist. within the claim. Pits  
 impracticable (impossible to set cor. stone in ground),  
 whence,

W 100 A juniper 8 ins. dia. bears S. 33° 41' W.

64 lks. dist. .

T 8 A juniper 20 ins. dia. bears N. 89° 10' W.,

x 8 enote sh 137 lks. dist. NW . N. 90° 50' E.

-tiw bns Benham A juniper 20 ins. dia. bears S. 20° 22' E.,  
 raised 60 lks. dist. chosen as better.

-tiw line verte Each blazed and marked 1 H E S 231 B T.

Boundary Post No. 16 on the G. & S. R. Base line

which is an iron post with brass cap marked

and witnessed as described by the Surveyor

General bears N. 26° 21' W. 29.63 chs. dist.

by traverse. waled .ti 07 , verb lo mottos 08.81

The observed magnetic declination at this cor. is

at 11:00 A.M. is N. 15° 45' E. corrected for

diurnal change is 15° 46' E. see notes

.S. 90° 10' 00.00

to Thence N. 89° 41' E. 42 x 42 enote also in a

descend gentle rocky slope through scattering juniper.

19.08 Bottom of descent, 65 ft. below cor. cost .WH no

20.50 Ascend rocky slope, 105 ft. S. end .ti + enote

39.98 to Cor. No. 12.00ml .

Set a malpais stone 24 x 20 x 18 ins. in a mound of  
 stone for cor. No. 21 of this survey, marked 2-HES231  
 on side facing claim and across (+) on top and raise  
 a mound of stone 4 ft. base, 2 ft. high, 3-1/2 ft.  
 dist. within claim (impossible to set cor. stone in  
 ground) whence, C Benham bns Benald nos

## HOMESTEAD ENTRY SURVEY NO. 231

APACHE NATIONAL FOREST

STATE OF ARIZONA

- Chains + eno A juniper 26 ins. dia. bears S. (08° 45' N.E.,  
 at H. misle 8 lks. dist. talb. ft S\I-S, high. ft S  
 (having mi eno A juniper 30 ins. dia. bears S. 46° 01' W.  
 108 lks. dist.  
 .W 'IA juniper 30 ins. dia. bears S. 84° 00' W.  
 196 lks. dist. .talb. .mi I-B  
 .W 'OI Each blazed and marked 28H-EqS 231AB T.  
 List cor. No. 4, which is a malpais stone 9 x  
 14 x 16 ins. in a mound of stone marked and wit-  
 nessed as described by the Forest Service bears  
 T 8 N. 07° 19' W., 37 lks. which I destroy and wit-  
 nesses thereto. Bonanza Post Rd. R.  
bottom of draw below road  
 Thence S. 0° 26' E. as bessentiv bns  
 .talb Descend rocky slope through scattering juniper.  
 18.60 Bottom of draw, 70 ft. below cor. visit rd  
 19.00 Ascend rocky slope. b citeram devreado edT  
 37.00 To top of ridge, 95 ft. above point of ascent. Continue  
 along West slope of ridge. nido lenxwib  
 40.00 To Cor. No. 3.  
 Set a malpais stone 34 x 24 x 20 ins. in a mound of  
 stone for cor. No. 3 of this survey marked 3-HES231  
 on NW. face and cross (+) on top. Raise a mound of 0.01  
 stone 4 ft. base, 2 ft. high, 3-1/2 ft. dist. within 0.03  
 claim. Pits impracticable. (Impossible to set cor. as  
 to stone in ground) whence, eno a alqam's tez  
 1828H-S b alive oak 8 ins. dia. bears S. 89° 03' W.  
 easier bns got 79 lks. dist. bns misle gnoet shis no  
 .ft S\I-S A live oak 8 ins. dia. bears S. 46° 36' W.,  
 ft eno a xos 40 lks. dist. acqwi) misle nintiw .talb  
 Each blazed and marked 3 H-E-S 231-B-T.

## APACHE NATIONAL FOREST

STATE OF ARIZONA STATE

Chains

List cor. No. 3, which is a malpais stone 12 x  
 14 x 12 ins. in a mound of stone, marked and  
 witnessed as described by the Forest Service  
 bears N. 49° 09' W. 37 lks. dist. I destroy the  
 same and witnesses thereto. set me bneal 08.01  
 08.01 00.15

November 23, 1914. aged to east end, 1.00 ft. 00.04  
 Thence S. 89° 34' W.

Descend 180 ft. through scattering juniper and scrub  
 slopes oak. Slopes covered with large rock. H. H. set

17.85 Wash, 20 lks. wide, banks 3 ft. high, course NW.

19.05 Ascend 145 ft. leave rocky slope.

27.50 Top of ridge, continue along N. slope. on the end

29.65 Descend steep rock slope 116 ft.

33.25 Wash, with a trace of water, 20 lks. wide, course SW.

33.45 Ascend rock slope 160 ft. on the end

39.95 To Cor. No. 4. Ent of unblazed tree misl

Identical with cor. No. 2 of list, which is a malpais  
 stone 18 x 18 x 12 ins. in a mound of stone marked and  
 witnessed as described by the Forest Service. I destroy  
 the same and witnesses thereto and set a malpais stone

00.06 25 x 16 x 12 ins. in a mound of stone for cor. No. 4

W. base of this survey, marked 4-HES231 on NE. face and a cross

(+) on top. Pits impracticable. Raise a mound of  
 stone 4 ft. base, 2 ft. high, 3-1/2 ft. dist. within

00.08 claim. (Impossible to set cor. stone in ground),

W. base whence, a gnol to ears . 18 x 8 lks. dist. 00.08

00.08 A juniper 4 ins. dia. bears N. 42° 41' W.

40 lks. dist. 00.08

00.08 A juniper 18 ins. dia. bears N. 33° 23' E.

84 lks. dist. 00.08

Each blazed and marked 4-H.E.S. 231, B.T.

00.08 00.08 00.08 00.08

00.08 00.08

## APACHE JCT NATIONAL FOREST

STATE OF ARIZONA STATE

Chains	
x 8	Thence N. 0° 26' W. 8.0M. too far
15.00	Descend 85 ft. over rocky land through scattering juniper and scrub oak. desc as descent
16.50	Wash, 10 lks. wide, banks 3 ft. high, course S. 70° 00' E.
31.00	Ascend gentle rocky slope. asc as ascent
40.00	Wash, 5 lks. wide, banks 2 ft. high, course SE.
	To Cor. No. 1, the place of beginning. 83 wedge

~~area being required~~ AREA of 159.89 acres

Area H. E. S. No. 231 is believed to be 159.89 acres

## CONFLICTS OR ADJOINING CLAIMS.

There are no conflicts or adjoining claims. To get

## IMPROVEMENTS

The improvements made upon and for the benefit of the

claim and belonging to the claimant, consist of the

following:

A two room, mixed log and adobe house, 16 x 30 ft.

course of long sides E. and W., the NW. cor. of which  
bears from cor. No. 1, S. 26° 00' E., 24.90 chs. dist.

A. 100.00 too far from bottom is Value \$150.00

Frame granary, 16 x 9 ft., course of long sides E. and W.

to N. W. cor. of which bears from Cor. No. 1 S. 27°

03' E. 25.00 chs. dist. to S. east. to end

(bottom of end too far) Value \$25.00

Pole barn, 16 x 34 ft., course of long sides E. and W.,

the NE. cor. of which bears from Cor. No. 1, S. 26°

36' E. 23.07 chs. dist. to end of

Value \$50.00

Pole cattle shed, 14 x 33 ft., course of long sides N.

and S., the NE. cor. of which bears from Cor. No. 1

S. 27° 30' E. 21.90 chs. dist.

Value \$50.00

## APACHE NATIONAL FOREST

STATE OF ARIZONA

Chains no 31	A rock and earth reservoir, center bears S.W. 19° 45' E., 22.40 chs. from cor. No. 1. 2 3 . 3	Value	\$75.00
ee.1 er.1 re.1	1/2 mile of brush and barbed wire fencing. 08.81 74.71 87.0 87.0	Value	\$50.00
si.31	Total value of improvements.	elator	\$400.00

REMARKS  
 This claim is situated on a plateau having an elevation of 6,200 ft. above sea level. The land slopes to the south and is covered with a scattering growth of juniper and scrub oak.

The only water available is surface, which is caught in an earth reservoir, having storage capacity sufficient for watering cattle and all domestic purposes the entire year.

Excepting a small area around the houses, the whole claim is covered with large boulders, and unfit for agriculture. About 15 acres can be brought under cultivation, 5 acres have been cultivated heretofore, producing good crops of corn, oats, potatoes and vegetables. The soil is a light, brown sandy loam. No evidence of mineral on the claim.

Clifton, the county seat of Greenlee County and nearest post office and trading center on the A. & N. M. R. R. lies 40 miles distant in a southerly direction, and is reached by a fair mountain trail.

## HOMESTEAD ENTRY SURVEY NO. 231

APACHE NATIONAL FOREST

STATE OF ARIZONA

Chains

Traverses from Cor. No. 1 to Boundary Post No. 16 on  
G. & S. R. R. line. mott .ads 04.38

Course	Dist.	N.	S.	E.	W.
N. 33° 18' W.	3.62	3.03	008 39.98	1.99	
N. 15° 54' W.	17.47	16.80			4.79
N. 43° 28' W.	9.27	6.73			6.37

Totals .26.56 13.15

Resulting course N. 26° 21' W. 29.63 chs.

Traverses, Boundaries H.E.S. No. 231.

Cor. no	Course	Dist.	N.	S.	E.	W.
1-2 N. 189° 41' E.	.39.98	00.22	008 39.98			
2-3 S. 0° 26' E.	40.00		40.00	0.30		
3-4 S. 089° 34' W.	39.95	00.30	008 39.95			
4-1 N. 0° 26' W.	40.00	40.00			0.30	
	159.93	40.22	40.30	40.28	40.25	
			40.22	40.25		

Error in Lat. and Dep. .08 .03

Error of closure 1:1898.

Survey completed November 23, 1914.

*C. Long*  
Surveyor - Forest Service.

## HOMESTEAD ENTRY SURVEY NO. 231

APACHE NATIONAL FOREST

STATE OF ARIZONA

Chains

Latitude Computation

Date of Observation, November 22, 1914.

Longitude by account from Land Office map  $109^{\circ} 16' 30''$  W.

Telescope placed in the meridian.

	Telescope	Watch Time	Vert. Ang.
Lower and W. limb	Direct	11h. 43m. 15s.	$36^{\circ} 50'$

Upper and E. limb	Reversed	11h. 45m. 35s.	$36^{\circ} 18'$
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Mean		11h. 44m. 25s.	$36^{\circ} 34'$
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Observed Vert. Ang. =  $36^{\circ} 34' 00''$ 

Refraction	- 1' 17"
	<u>36° 32' 43"</u>

Parallax	+ 07
	<u>36° 32' 50"</u>

Sun's Declination	+ 20° 05' 15"
	<u>56° 38' 05"</u> = co. Lat.

90° 00' 00"	
<u>33° 21' 55"</u>	= Latitude.

Time Computation

Watch time of Meridian passage = 11h. 44m. 25s.

Equation of Time	+ 13m. 56s.
	<u>11h. 58m. 21s.</u>

Apparent Noon	= 12h. 00m. 00s.
Watch slow on l.m.t.	<u>1m. 39s.</u>

Azimuth Computation

Date of Observation, November 21, 1914.

Lat. and Long. previously stated.

(1)

l.m.t. of obsn. 8h. 51m. 39s.

Apparent time of obsn. 9h. 05m. 51s.

Observed Vert. Ang.  $22^{\circ} 43' 45''$ Reduced " "  $22^{\circ} 41' 28''$ Sun's Declination  $19^{\circ} 50' 26''$ Hor. Ang. from the sun  
to right.  $91^{\circ} 49' 15''$

## HOMESTEAD ENTRY SURVEY NO. 100

LIONMAN FOREST NATIONAL FOREST

STATE OF ARIZONA TO STATE

Chains	Distance
	<u>Positive Computation</u>
	Date of Observation November 28, 1914.
	Longitude of second work line was 103° 16' 30". W.
	Telescope bisected at the meridian.
	Telescope Station Time 11h. 45m. 18s. 1914.
	Lower sun W. limb 11h. 45m. 18s. 20. 1914.
	Upper sun E. limb 11h. 45m. 28s. 18. 1914.
	Moon
	Observing Alt. 11h. = 29° 34'. 00"
	Position
	29° 35'. 42"
	Barometric
	29° 35'. 00"
	Sun's Declination + 20° 02'. 12"
	29° 38'. 02" = 00° 12' T.S.
	20° 00'. 00" = Declination.
	Meridian Computation
	Meridian time of Meridian baseline = 11h. 44m. 28s.
	Equation of time
	11h. 28m. 31s.
	Absolute Moon
	Meridian Alt. or f.m. = 20° 00'. 00" = 11h. 38m. 28s.
	Meridian Computation
	Date of Observation November 21, 1914.
	1st. sun long. declination stated
	(1)
	made to f.m. 11h. 45m. 28s.
	made to emit from A
	22° 42'. 42" Observing Alt. 11h. = 29° 35'. 42"
	Heads
	20° 00'. 00" " " 22° 41'. 28"
	Sun's Declination
	21° 42'. 12" from the sun
	Hot. Alt. from the sun to right of

## HOMESTEAD ENTRY SURVEY NO. 231

APACHE NATIONAL FOREST

STATE OF ARIZONA

Chains

$$\text{Cos. A.} = \text{Sin. } 19^\circ 50' 26''$$

$$\text{Cos. } 33^\circ 21' 55'' \times \text{Cos. } 22^\circ 41' 28''$$

- (Tan.)

$$33^\circ 21' 55'' \times \text{Tan. } 22^\circ 41' 28'')$$

$$\begin{aligned} \text{Log. Sin. } 19^\circ 50' 26'' &= 9.5307167 \\ &\quad 9.8866731 \\ &\quad \underline{9.6439236} = \text{Log. } -44048 \end{aligned}$$

$$\begin{aligned} \text{Log. Cos. } 33^\circ 21' 55'' &= 9.9217807 \\ " " 22^\circ 41' 28'' &= 9.9650124 \\ &\quad \underline{9.8867931} \end{aligned}$$

$$\begin{aligned} \text{Log. Tan. } 33^\circ 21' 55'' &= 9.8185620 \\ " " 22^\circ 41' 28'' &= 9.6213090 \\ &\quad \underline{9.4398710} = \text{Log. } -27534 \end{aligned}$$

$$-.44048 -.27534 = -.71582 = \text{Nat. Cos. S. } 44^\circ 17' 23'' \text{ E.}$$

the bearing of sun and the bearing of reference mark is

$$\text{S. } 47^\circ 31' 52'' \text{ W.}$$

(2)

$$\text{l.m.t. of obsn.} = 8\text{h. } 54\text{m. } 54\text{s.}$$

$$\text{Apparent time of obsn. } 9\text{h. } 09\text{m. } 06\text{s.}$$

$$\text{Observed Vert. Ang. } 23^\circ 11' 10''$$

$$\text{Corrected Vert. Ang. } 23^\circ 08' 56''$$

$$\text{Sun's Declination } 19^\circ 50' 28''$$

$$\begin{aligned} \text{Hor. Ang. from sun to} \\ \text{right} & 91^\circ 10' 00'' \end{aligned}$$

$$\begin{aligned} \text{Log. Sin. } 19^\circ 50' 28'' &= 9.5307284 \\ &\quad 9.8853260 \\ &\quad \underline{9.6454024} = \text{Log. } -44198 \end{aligned}$$

$$\begin{aligned} \text{Log. Cos. } 33^\circ 21' 55'' &= 9.9217807 \\ " " 23^\circ 08' 56'' &= 9.9635453 \\ &\quad \underline{9.8853260} \end{aligned}$$

$$\begin{aligned} \text{Log. Tan. } 33^\circ 21' 55'' &= 9.8185620 \\ " " 23^\circ 08' 56'' &= 9.6309819 \\ &\quad \underline{9.4495439} = \text{Log. } -28154 \end{aligned}$$

$$-.44198 -.28154 = -.72352 = \text{Nat. Cos. of S. } 43^\circ 39' 15''$$

E., the bearing of sun and the bearing of reference mark is S.  $47^\circ 30' 45''$  W. and the mean of these observations is S.  $47^\circ 31' 19''$  W.

T.A.

**HOMESTEAD ENTRY SURVEY NO.**

TAHOE LAKE NATIONAL FOREST

**STATE OF NIRA TO STATE**

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

anancing 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 footing in red ink.

The corrections for balancing tallings should be proportional to the lengths of the lines. In calculations of fallings take result to nearest link. In calculations of N., S. areas drop all after second decimal. Only three copies of this tabulation are necessary, for the District Office, the Surveyor General, and the Commissioner.

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.

**TABLE AND CALCULATIONS OF HOMESTEAD ENTRY SURVEY NO. 231, STATE OF ARIZONA.**

8-2349



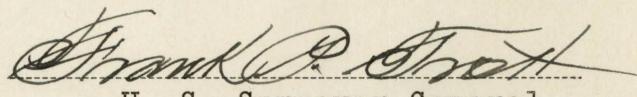
APPROVAL

Office of the United States Surveyor General,  
Phoenix, Arizona, April 29, 1916.

The foregoing field notes of Homestead Entry Survey No.

231

executed by C. A. Long, Surveyor-Forest Service  
under his special instructions, dated August 6, 1914,  
having been critically examined, and the necessary correc-  
tions 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 Arizona,  
has been correctly copied from the original notes on file in  
this office.

Frank P. Trott  
U. S. Surveyor General.