

ORIGINAL

45

U. S. DEPARTMENT OF AGRICULTURE
FOREST SERVICE

AUG 2-1917

FIELD NOTES

With letter from Surveyor ^{MAR 28 1918}
General dated 4 - 18 - '18
780257 DEC 3-1913

HOMESTEAD ENTRY SURVEY NO. 463

SITUATED IN THE SITGREAVES NATIONAL FOREST

ADMINISTRATIVE DISTRICT NO. 3

In Section 35 , - surveyed, Township 13 N., Range 15 E.

of the

Gila and Salt River Base and Meridian.

State of

ARIZONA

Applicant for listing	Spencer Porter,
Residence	Heber, Arizona
Application No. 498 ✓	, dated November 20 , 1913 ✓
List No. 3-3226 ✓	, dated July 1 , 1914 ✓

Applicant for survey	Chester I. Houck
Residence	Heber, Arizona
H. E. No. 026620 ✓	January 28, 1915 (Relinquished) 5/21/17 ✓
H. E. No. 036008 ✓	, dated January 25 , 1918 ✓
Office	
Land District	Phoenix, Arizona

Survey executed by	R. P. A. Johnson, Surveyor - Draftsman <small>(Forest Service Title.)</small>
Under special instructions dated	April 17 , 1916
Survey commenced	July 18 , 1916
Survey completed	July 19 , 1916
Under Acts of	June 11, 1906 and June 30, 1916

46

OATH OF ASSISTANTS

We hereby certify that we assisted

R. P. A. Johnson

Surveyor Draftsman
[Forest Service Title.]

in surveying all those

parts or portions of Homestead Entry Survey No. *463*, 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.

Nelson F. Newman, Chainman

Chester A. Lee, Chainman

Subscribed and sworn to before me this *fourteenth* day of *August*, 19*16*.

R. P. A. Johnson
Surveyor Draftsman

OATH OF SURVEYOR

I, *R. P. A. Johnson*, *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 *April 17, 1916*, and the laws of the United States, I have well, faithfully, and truly, in my own proper person, surveyed a tract of land embraced in

List, No. *3-3226*, dated *July 1*, 19*14*, for *patent*, under the Act of *June 11*, 1906, the same to be known as Homestead Entry Survey No. *463*, situated within the *Sitgreaves* National Forest, in surveyed Section *35*, Township *13N*, Range *15E*, and surveyed Section -----, Township -----, Range -----,

of the *Gila and Salt River Base* 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.

R. P. A. Johnson
Surveyor Draftsman
[Forest Service Title.]

Subscribed and sworn to before me this *thirtyfirst* day of *March*, 19*17*.

Ethel M. Gatchell
Notary Public



My Commission expires Mar. 17 1921
8-2349

SITGREAVES NATIONAL FOREST

STATE OF ARIZONA

Chains

Applicant for listing, Spencer Porter; Application No. 498, dated November 20, 1913; List No. 3-3226, dated July 1, 1914; H. E. 036008, made in the Phoenix Land Office on January 25, 1918 by Chester I. Houck.

Surveyed under special instructions from the Surveyor General for Arizona, dated April 17, 1916 and designated as Homestead Entry Survey No. 463.

Situated in surveyed Sec. 35, T. 13 N., R. 15 E., Gila and Salt River Base and Meridian, Sitgreaves National Forest, Arizona.

Surveyed under the Acts of June 11, 1906 and June 30, 1916.

Aug 11, 1916
June 30
correct
June

Survey commenced July 18, 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.

July 18, 1916, a.m.

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

Lat. $34^{\circ} 29'$ N., Long. $110^{\circ} 44'$ W., from special instructions from the Surveyor General, and later verified.

SITGREAVES NATIONAL FOREST

STATE OF ARIZONA

Chains	Telescope	Time	Horizontal Angle	Vertical Angle
	Direct	7h. 54m. 15s.	86° 01' 30"	33° 06' 30"
	Reversed	7h. 55m. 10s.	85° 32' 30"	32° 45' 00"
Bearing of reference object, N. 0° 01' 37" W.				

July 18, 1916, p.m.

I again observe the altitude of the sun for azimuth at same station. The reading on the reference object is set at zero and the sun was observed in the upper left and lower right quadrants of the field.

Telescope	Time	Horizontal Angle	Vertical Angle
Direct	5h. 22m. 10s.	78° 12' 00"	20° 57' 30"
Reversed	5h. 23m. 02s.	78° 39' 00"	21° 16' 30"

Bearing of reference object, N. 0° 01' 20" W.

The mean of these is N. 0° 01' 28" W. and to the corresponding meridian all the courses of this survey are referred.

RETRACEMENT

July 18, 1916.

From cor. for secs. 25, 26, 35 and 36, which is a limestone 8 x 8 x 10 ins. above ground, marked with 1 notch on S. face and 1 notch on E. face, with mound of stone 3 ft. base, 2 ft. high N. of cor., whence:

A yellow pine, 10 ins. dia., bears N. 34° 30' W., 66 lks. dist., scribed T 13 N R 15 E S 26 B T.
(New witness)

A yellow pine, 18 ins. dia., bears S. 35° E., 10 lks. dist., scribed T 13 N R 15 E S 36 B T.
(Old bearing tree)

A yellow pine, 18 ins. dia., bears S. 30° 30' W., 151 lks. dist., scribed T 13 N R 15 E S 35 B T.
(Old bearing tree)

SITGREAVES NATIONAL FOREST

STATE OF ARIZONA

Chains

A juniper, 17 ins. dia., bears N. 18° 30' E., 95
lks. dist., scribed T 13 N R 15 E S 25 B T.
(Old bearing tree).

Thence West.

On random line bet. secs. 26 and 35.

40.00 Fall 5 lks. S. of 1/4 sec. cor. bet. secs. 26 and 35,
which is a sandstone 12 x 10 x 7 ins. above ground,
marked 1/4 on N. face, with mound of stone 3 ft. base,
2 ft. high N. of cor., whence:

An oak, 5 ins. dia., bears N. 22° E., 69 lks.
dist., marked 1/4 S B T.

A pine, 12 ins. dia., bears S. 61° 30' W., 42
lks. dist., marked 1/4 S B T.

Return course S. 89° 56' E., 40.00 chs.

BOUNDARIES OF CLAIM

Beginning at cor. No. 1 and C. C. on line bet. secs.
26 and 35.

Deposit a limestone 8 x 3 x 3 ins. marked with a +, 20
ins. in the ground, over which set a limestone 30 x 14
x 4 ins., chiseled + for the point, 1 - H E S 463 on
SE. face and C C on S. face; and raise a mound of stone
3 ft. base, 2 ft. high S. of cor., whence:

A yellow pine, 16 ins. dia., bears S. 11° E.,
66 lks. dist., scribed 1 H E S 463 + B T.

A yellow pine, 14 ins. dia., bears S. 65° 30' E.,
35 lks. dist., scribed 1 H E S 463 + B T.

Cor. for secs. 25, 26, 35 and 36, heretofore de-
scribed, bears S. 89° 56' E., 30.00 chs. dist.

1/4 sec. cor. bet. secs. 26 and 35, heretofore
described, bears N. 89° 56' W., 10.00 chs. dist.

Lat. 34° 29' N., Long. 110° 44' W., from special in-
structions from the Surveyor General, and later verified.

Chains	<p>Mag. decl. at 8:00 a.m., 14° 20' E. Mean mag. decl., 14° 16' E.</p> <p>Thence S. 89° 56' E.</p> <p>On line bet. secs. 26 and 35. Descend 25 ft. to bottom.</p> <p>2.50 Foot descent. Enter open potato field. Draw, course N.</p> <p>3.95 Road bears N. and S.</p> <p>4.40 Leave Potato Field Draw. Ascend 30 ft. in scattered timber to cor.</p> <p>7.55 To cor. No. 2 and C. C. on line bet. secs. 26 and 35. Deposit a limestone 4 x 3 x 3 ins. marked with a +, 16 ins. in the ground, over which set a limestone 26 x 10 x 8 ins., chiseled + for the point, 2- H E S 463 on WSW. face and C C on SSW. face; and raise a mound of stone 3 ft. base, 2 ft. high SSW. of cor., whence: A yellow pine, 8 ins. dia., bears S. 20° E., 20 lks. dist., scribed 2 H E S 463 + B T. A yellow pine, 20 ins. dia., bears N. 85° 30' W., 39 lks. dist., scribed 2 H E S 463 + B T. Cor. for secs. 25, 26, 35 and 36, heretofore de- scribed, bears S. 89° 56' E., 22.45 chs. dist. 1/4 sec. cor. bet. secs. 26 and 35, heretofore de- scribed, bears N. 89° 56' W., 17.55 chs. dist.</p> <hr/> <p>Thence S. 31° 38' W.</p> <p>Along NW. slope in edge of timber. Descend 20 ft. to cor.</p> <p>19.12 To cor. No. 3.</p> <p>Identical with cor. H-9 of the list survey, which is a sandstone 15 x 5 x 4 ins. above ground, marked and witnessed as described by the Forest Service. I de- stroy all trace of this list cor. Deposit a limestone</p>
--------	---

SITGREAVES NATIONAL FOREST

STATE OF ARIZONA

Chains

4 x 3 x 2 ins. marked with a +, 14 ins. in the ground, over which set a sandstone 24 x 8 x 8 ins., chiseled + for the point and 3 - H E S 463 on NW. face; and raise a mound of stone 3 ft. base, 2 ft. high NW. of cor., whence:

A yellow pine, 34 ins. dia., bears S. 21° 52' W., 13 lks. dist., scribed 3 H E S 463 + B T.

A yellow pine, 10 ins. dia., bears N. 80° 24' E., 113 lks. dist., scribed 3 H E S 463 + B T.

Thence S. 66° 55' W.

Ascend 10 ft. along NW. slope in edge of timber.

5.00 Descend 10 ft. to draw.

8.10 Enter open draw, course NW.

10.80 Leave draw. Ascend 20 ft. in timber to rocky point.

13.74 Rocky point, bears NW. and SE. Descend 20 ft. to cor.

15.04 To cor. No. 4.

Identical with cor. H-10 of the list survey, which is a limestone 9 x 5 x 5 ins. above ground, marked and witnessed as described by the Forest Service. I destroy all trace of this list cor. Deposit a limestone 4 x 4 x 1 ins. marked with a +, 14 ins. in the ground, over which set a limestone 24 x 8 x 6 ins., chiseled + for the point and 4 - H E S 463 on W. face; and raise a mound of stone 3 ft. base, 2 ft. high W. of cor., whence:

A yellow pine, 12 ins. dia., bears N. 48° 19' W., 67 lks. dist., scribed 4 H E S 463 + B T.

A yellow pine, 8 ins. dia., bears S. 77° 52' W., 133 lks. dist., scribed 4 H E S 463 + B T.

Thence S. 28° 02' W.

Across open draw, course NW.

3.00 Leave draw. Ascend 15 ft. to bench in timber.

Chains

5.50

Enter bench, bears NW. and SE.

22.90

Leave bench. Descend 15 ft. to cor.

26.92

To cor. No. 5.

Identical with cor. H-11 of the list survey, which is a limestone 8 x 3 x 4 ins. above ground, marked and witnessed as described by the Forest Service. I destroy all trace of this list cor. Deposit a limestone 4 x 3 x 1 ins. marked with a +, 14 ins. in the ground, over which set a limestone 24 x 8 x 8 ins., chiseled + for the point and 5 - H E S 463 on W. face; and raise a mound of stone 3 ft. base, 2 ft. high W. of cor., whence:

A yellow pine, 24 ins. dia., bears N. 15° 02' W., 32 lks. dist., scribed 5 H E S 463 + B T.

A yellow pine, 18 ins. dia., bears S. 64° 10' E., 76 lks. dist., scribed 5 H E S 463 + B T.

Thence S. 15° 52' E.

Ascend 15 ft. along NW. slope in timber.

5.00

Rocky point bears E. and W. Descend 15 ft. to draw.

11.54

Foot descent. Thence across open draw, course W.

13.40

Leave draw. Ascend 25 ft. to rocky point in timber.

16.50

Rocky point bears E. and W. Descend 10 ft. to cor.

along West slope.

20.40

To cor. No. 6.

Identical with cor. H-12 of the list survey, which is a limestone 12 x 8 x 14 ins. above ground, marked and witnessed as described by the Forest Service. I destroy all trace of this list cor. Deposit a sandstone 4 x 4 x 3 ins. marked with a +, 14 ins. in the ground, over which set a sandstone 24 x 10 x 8 ins., chiseled + for the point and 6 - H E S 463 on NW. face; and raise a mound of stone 3 ft. base, 2 ft. high NW. of

53

SITGREAVES NATIONAL FOREST

STATE OF ARIZONA

Chains

cor., whence:

A yellow pine, 24 ins. dia., bears S. 10° 14' E.,
28 lks. dist., scribed 6 H E S 463 + B T.

A yellow pine, 16 ins. dia., bears N. 69° 14' W.,
94 lks. dist., scribed 6 H E S 463 + B T.

Thence N. 89° 50' W.

Descend 15 ft. in timber to draw.

1.00 Foot descent. Enter Potato Field Draw, course N.

6.00 Leave draw. Ascend 25 ft. to ridge in timber.

10.00 Top ridge, bears N. and S. Descend 25 ft. to draw.

13.00 Foot descent. Enter draw, course NE.

16.48 To cor. No. 7.

Identical with cor. H-1 of the list survey, which is
a sandstone 10 x 4 x 5 ins. above ground, marked and
witnessed as described by the Forest Service. I de-
stroy all trace of this list cor. Deposit a sandstone
3 x 3 x 2 ins. marked with a +, 14 ins. in the ground,
over which set a sandstone 24 x 10 x 8 ins., chiseled
+ for the point and 7 - H E S 463 on NE. face; and raise
a mound of stone 3 ft. base, 2 ft. high NE. of cor.,
whence:

A yellow pine, 22 ins. dia., bears S. 59° 54' W.,
99 lks. dist., scribed 7 H E S 463 + B T.

A yellow pine, 28 ins. dia., bears N. 21° 43' W.,
50 lks. dist., scribed 7 H E S 463 + B T.

July 18, 1916.

July 19, 1916.

Thence N. 1° 22' W.

In timber, over level land.

10.00 Ascend 5 ft. to cor. in timber. Leave draw.

11.89 To cor. No. 8.

Identical with cor. H-2 of the list survey, which is

*Where do you
want draw?
Leave on
next time
you*

X✓

54

SITGREAVES NATIONAL FOREST

STATE OF ARIZONA

Chains

a limestone 3 x 2 x 2 ft. above ground, marked and witnessed as described by the Forest Service. I destroy all trace of this list cor. and mark same stone with a + for point and 8 - H E S 463 on E. face; and raise a mound of stone 3 ft. base, 2 ft. high, E. of cor., whence:

A yellow pine, 12 ins. dia., bears N. 11° 04' E., 67 lks. dist., scribed 8 H E S 463 + BT.

A yellow pine, 20 ins. dia., bears N. 57° 02' E., 87 lks. dist., scribed 8 H E S 463 + B T.

Thence N. 23° 36' E.

Descend 5 ft. to draw in timber.

0.50 Enter open draw, course SE.

2.50 Leave open draw. Ascend 20 ft. in timber to bench.

5.65 Top ascent. Thence over level land in timber.

23.50 Leave bench and descend 20 ft. to draw.

27.00 Foot descent. Enter open draw, course SE.

29.10 To cor. No. 9.

Identical with cor. H-3 of the list survey, which is a limestone 12 x 4 x 6 ins. above ground, marked and witnessed as described by the Forest Service. I destroy all trace of this list cor. Deposit a limestone 2 x 2 x 2 ins. marked with a +, 14 ins. in the ground, over which set a limestone 24 x 10 x 8 ins., chiseled + for the point and 9 - H E S 463 on SE. face; and raise a mound of stone 3 ft. base, 2 ft. high SE. of cor., whence:

A yellow pine, 8 ins. dia., bears S. 65° 55' W., 96 lks. dist., scribed 9 H E S 463 + B T.

A yellow pine, 12 ins. dia., bears N. 55° 10' W., 124 lks. dist., scribed 9 H E S 463 + BT.

Thence N. 49° 10' E.

55

SITGREAVES NATIONAL FOREST

STATE OF ARIZONA

Chains

Ascend 20 ft. in open to bench.

2.00

Top ascent. Thence over level land in timber.

35.00

Leave timber and descend 20 ft. to cor.

37.51

To cor. No. 10.

Identical with cor. H-4 of the list survey, which is a limestone 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 limestone 5 x 3 x 2 ins. marked with a + 14 ins. in the ground, over which set a limestone 24 x 12 x 4 ins., chiseled + for the point and 10 - H E S 463 on E. face; and raise a mound of stone 3 ft. base, 2 ft. high E. of cor., whence:

A yellow pine, 24 ins. dia., bears S. 58° 49' W.,

111 lks. dist. scribed 10 H E S 463 + B T.

A yellow pine, 32 ins. dia., bears S. 33° 30' E.,

66 lks. dist., scribed 10 H E S 463 + B T.

Thence N. 2° 03' E.

Across open draw, course E.

1.50

Leave open draw and ascend 15 ft. to cor.

2.46

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

AREA

Total Area - - - - - 67.65 acres.

IMPROVEMENTS

The improvements made upon this claim and belonging to the claimant, consist of the following:

A partially completed log cabin, 15 x 12 ft., the long side of which bears N. and S. and the NE. cor of which bears S. 16° 26' E., 2.73 chs. dist., from cor. 8.

Value - - - - - \$ 75.00

10.

SITGREAVES NATIONAL FOREST

STATE OF ARIZONA

Chains

A pole corral, 125 x 100 ft., bears S. 20° E., 2.00 chs. dist.

Value - - - - - \$ 25.00

There is approximately 1/2 mile of wire fence.

Value - - - - - \$ 40.00

DESCRIPTION

This claim lies along Potato Field Draw, at an elevation of 6800 ft. The claim consist of a long open draw with low timbered benches to E. and W.

The timber consists of a good stand of yellow pine which occurs on slopes and benches along East and West boundary lines.

The soil in bottom is a sandy loam of good depth, fertile and produces good crops. The soil on benches and slopes is shallow and rocky.

There is no water for irrigation or domestic use.

There are approximately 6 acres in cultivation.

This land is not known to be mineral in character.

CONFLICTS AND ADJOINING CLAIMS

There are no conflicts . This survey is joined on the North by portion of claimant's entry, which has been adjusted to the following legal subdivisions: S/2 N/2 SE/4 SE/4, N/2 S/2 SE/4 SE/4, S/2 NE/4 SW/4 SE/4 and SE/4 SW/4 SE/4.

Heber, Arizona, the nearest post office, is 10 miles to East and Holbrook, Arizona, the nearest railroad point, is 60 miles distant. The road to Heber is poor and from Heber to Holbrook is good.

SITGREAVES NATIONAL FOREST

STATE OF ARIZONA

Chains

TRAVERSE

Cor.	Course	Dist.	N	S	E	W
1-2	S. 89° 56' E.	7.55		0.01 ✓	7.55 ✓	
2-3	S. 31° 38' W.	19.12		16.28 ✓		10.03 ✓
3-4	S. 66° 55' W.	15.04		5.90 ✓		13.84 ✓
4-5	S. 28° 02' W.	26.92		23.76 ✓		12.65 ✓
5-6	S. 15° 52' E.	20.40		19.62 ✓	5.58 ✓	
6-7	N. 89° 50' W.	16.48	0.05 ✓			16.48 ✓
7-8	N. 1° 22' W.	11.89	11.89 ✓			0.28 ✓
8-9	N. 23° 36' E.	29.10	26.67 ✓		11.65 ✓	
9-10	N. 49° 10' E.	37.51	24.53 ✓		28.38 ✓	
10-1	N. 2° 03' E.	2.46	2.46 ✓		0.09 ✓	
		<u>186.47</u>	<u>65.60</u>	<u>65.57</u>	<u>53.25</u>	<u>53.28</u>
Error in Lat. and Dep.			<u>65.57</u>			<u>53.25</u>
			.03			.03

Closing error, 1:4398.

Survey completed July 19, 1916.

R. A. Johnson
Surveyor - Draftsman

58

HOMESTEAD ENTRY SURVEY NO.

NATIONAL FOREST

STATE OF

Chains

100.0	100.0	100.0	100.0	100.0	100.0
100.0	100.0	100.0	100.0	100.0	100.0
100.0	100.0	100.0	100.0	100.0	100.0
100.0	100.0	100.0	100.0	100.0	100.0
100.0	100.0	100.0	100.0	100.0	100.0
100.0	100.0	100.0	100.0	100.0	100.0
100.0	100.0	100.0	100.0	100.0	100.0
100.0	100.0	100.0	100.0	100.0	100.0
100.0	100.0	100.0	100.0	100.0	100.0
100.0	100.0	100.0	100.0	100.0	100.0
100.0	100.0	100.0	100.0	100.0	100.0
100.0	100.0	100.0	100.0	100.0	100.0
100.0	100.0	100.0	100.0	100.0	100.0
100.0	100.0	100.0	100.0	100.0	100.0

Surveyor - [Signature]

SITGREAVES NATIONAL FOREST

STATE OF ARIZONA

Chains

Direct Solar, July 18, 1916 at Cor. No. 1.

Lat. 34° 29' N., Long. 110° 44' W., Elevation 6800 ft.

Telescope	Time	Horizontal Angle	Vertical Angle	Pos. Sun
Direct	5h. 22m. 10s.	78° 12' 00"	20° 57' 30"	+°
Reversed	5h. 23m. 02s.	78° 39' 00"	21° 16' 30"	+°
	5h. 22m. 36s.	78° 25' 30"	21° 07' 00"	
			02' 00"	
			21° 05' 00"	

Decl., 20° 57' 30" N.

$$\text{Cos. Q.} = \frac{\sin. 20^\circ 57' 30''}{\cos. 34^\circ 29' \times \cos. 21^\circ 05'}$$

$$\tan. 34^\circ 29' \times \tan. 21^\circ 05'$$

log. sin. 20° 57' 30"	=	9.553505	
log. cos. 34° 29' 00"	=	9.916081	
log. cos. 21° 05' 00"	=	9.969909	
		9.667515	= log. .46507
log. tan. 34° 29'	=	9.836864	
log. tan. 21° 05'	=	9.586062	
		9.422926	= log. .26480

$$\text{Cos. Q.} = .20027$$

$$\text{Q.} = 78^\circ 26' 50''$$

Bearing of reference object, N. 0° 01' 20" W.

(2)

Telescope	Time	Horizontal Angle	Vertical Angle	Pos. Sun
Direct	7h. 54m. 15s.	86° 01' 30"	33° 06' 30"	+°
Reversed	7h. 55m. 10s.	85° 32' 30"	32° 45' 00"	+°
	7h. 54m. 42s.	85° 47' 00"	32° 55' 45"	
			01' 10"	
			32° 54' 35"	

Decl., 21° 01' 40" N.

$$\text{Cos. Q.} = \frac{\sin. 21^\circ 01' 40''}{\cos. 34^\circ 29' \times \cos. 32^\circ 54' 35''}$$

$$\tan. 34^\circ 29' \times \tan. 32^\circ 54' 35''$$

log. sin. 21° 01' 40"	=	9.554877	
log. cos. 34° 29' 00"	=	9.916081	
log. cos. 32° 54' 35"	=	9.924035	
		9.714761	= log. .51851
log. tan. 34° 29' 00"	=	9.836864	
log. tan. 32° 54' 35"	=	9.811018	
		9.647882	= log. .44451

$$\text{Cos. Q.} = .07400$$

$$\text{Q.} = 85^\circ 45' 23''$$

Bearing of reference object, N. 0° 01' 37" W.

60

NATIONAL FOREST

STATE OF

Chains	Telescope		Time	Telescope		Chains
	Horizontal Angle	Vertical Angle		Horizontal Angle	Vertical Angle	
Direct 50' 10"	78° 32'	00'	1.00	78° 32'	00'	50' 10"
Reversed 50' 10"	78° 32'	00'	1.00	78° 32'	00'	50' 10"
<hr/>						
Decl., 50° 57' 30" W.						
Cos. 9. = 0.63439						
Tan. 34° 32' x tan. 31° 02'						
Log. sin. 30° 57' = 0.51601						
Log. cos. 34° 32' = 0.89999						
Log. cos. 31° 02' = 0.85708						
<hr/>						
Log. tan. 34° 32' = 0.85708						
Log. tan. 31° 02' = 0.74782						
<hr/>						
Cos. 9. = 0.63439						
Decl. of reference object, N. 02° 01' 57" W.						
(2)						
Chains	Telescope		Time	Telescope		Chains
	Horizontal Angle	Vertical Angle		Horizontal Angle	Vertical Angle	
Direct 50' 10"	78° 32'	00'	1.00	78° 32'	00'	50' 10"
Reversed 50' 10"	78° 32'	00'	1.00	78° 32'	00'	50' 10"
<hr/>						
Decl., 31° 01' 40" W.						
Cos. 9. = 0.81915						
Tan. 34° 32' x tan. 32° 54' 35"						
Log. sin. 31° 01' 40" = 0.51601						
Log. cos. 34° 32' = 0.89999						
Log. cos. 32° 54' 35" = 0.81915						
<hr/>						
Log. tan. 34° 32' = 0.85708						
Log. tan. 32° 54' 35" = 0.81915						
<hr/>						
Cos. 9. = 0.81915						
Decl. of reference object, N. 02° 01' 57" W.						

DIRECTIONS.—1. Carry out calculations to two decimals only.
 2. In balancing Latitudes and Departures do not obliterate or change the original figures. Do not change the footing of the original figures, but put below them the corrected footing in red ink.
 3. In calculations of bearings take result to nearest link. The corrections for balancing fallings should be proportional to the lengths of the lines. 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.

TABLING AND CALCULATIONS OF HOMESTEAD ENTRY SURVEY NO. 463, STATE OF Arizona.

CORNERS.	BEARING.	DISTANCE.	LATITUDES.		DEPARTURES.		DOUBLE M. D.	N. AREAS.	S. AREAS.
			NORTH.	SOUTH.	EAST.	WEST.			
1-2	S. 89° 56' E.	7.55		01	7.55		87.83		88
2-3	S. 31° 38' W.	19.12		16.28		10.03	85.35	1389.50	
3-4	S. 66° 55' W.	15.04		5.90		13.84	61.48	362.73	
4-5	S. 28° 02' W.	26.92		23.76		12.64	35.00	831.95	
5-6	S. 15° 52' E.	20.40		19.62		12.66	27.94	548.18	
6-7	N. 89° 50' W.	16.48	05			16.48	17.04		85
7-8	N. 1° 22' W.	11.89	1189			28	28		3 33
8-9	N. 23° 35' E.	29.10	2666			11.65	11.66		310 86
9-10	N. 49° 10' E.	37.51	2453			28.38	51.71		1267 93
10-1	N. 2° 03' E.	2.46	246			09	80.19		197 27
		186.47	6560	65 57	53 25	53 28		1780 24	3133 24
			6558	6558	53 27	53 28		1780 24	1780 24
								20/1353 00	67 65 Acres.

61

EMH

APPROVAL

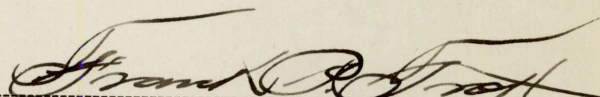
Office of the United States Surveyor General,

Phoenix, Arizona, April 18 , 1918

The foregoing field notes of Homestead Entry Survey No.

463

executed by R. P. A. Johnson, Surveyor-Draftsman
[Forest Service Title.]
under his special instructions, dated April 17 , 1916, having
been critically examined, and the necessary corrections and explanations
made, the said field notes, and the surveys they describe, are hereby
approved.



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.