

U. S. DEPARTMENT OF AGRICULTURE
FOREST SERVICE

AUG 2-1917
MAY-2 1918
NOV. 22 1919

FIELD NOTES

OF

HOMESTEAD ENTRY SURVEY NO. 464

SITUATED IN THE SITGREAVES NATIONAL FOREST

ADMINISTRATIVE DISTRICT NO. 3

In Section 23 , unsurveyed, Township 12 N., Range 17 E.

In Section 26 , unsurveyed, Township 12 N., Range 17 E.

In Section 27 , unsurveyed, Township 12 N., Range 17 E.

of the

Gila and Salt River Base and Meridian.

State of

ARIZONA

Applicant for listing T. M. Turner,

Residence Heber, Arizona

Application No. 523 , dated April 28 , 1914

List No. 3-3467 , dated January 18 , 1915

Applicant for survey ^{Thacker} T. M. Turner,

Residence Heber, Arizona

H. E. No. 027442 , dated July 7 , 1915

Office
Land District Phoenix, Arizona

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

Under special instructions dated April 17 , 1916

Survey commenced July 31 , 1916

Survey completed August 2 , 1916

Under Acts of June 11, 1906, June 30, 1916 and July 31, 1916

66

OATH OF ASSISTANTS

We hereby certify that we assisted

P. P. N. Johnson
Surveyor Draftsman [Forest Service Title.] in surveying all those

parts or portions of Homestead Entry Survey No. *464*, 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 A. Newman, Chainman

Chester A. Lee, Chainman

Subscribed and sworn to before me this

fourteenth day of *August*, 1916.

P. P. N. Johnson
Surveyor Draftsman

OATH OF SURVEYOR

I, *P. P. N. 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*

Lot, No. *3-3467*, dated *January 18, 1915*, for *patent*, under the Act of *June 11, 1906*, the same to be known as Homestead Entry Survey No. *464*, situated within the *Sitgreaves* National Forest, in *unsurveyed Section 23*, Township *12 N.*, Range *17 E.*, and *unsurveyed Section 26*, Township *12 N.*, Range *17 E.*, *unsurveyed Section 27*, Township *12 N.*, Range *17 E.*

of the *Gila and Salt River Basins* 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.

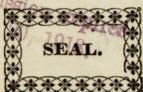
DISTRICT OF COLUMBIA
CITY OF WASHINGTON

P. P. N. Johnson
Surveyor Draftsman [Forest Service Title.]

Subscribed and sworn to before me this

9th day of *March*, 1917.

Sylvester L. McLaughlin
Notary Public, D. C.



SITGREAVES NATIONAL FOREST

STATE OF ARIZONA

Chains

Applicant for listing, T. M. Turner; Application No. 523, dated April 28, 1914; List No. 3-3467, dated January 18, 1915; H. E. 027442, made in the Phoenix Land Office on July 7, 1915 by T. M. Turner.

Surveyed under special instructions from the Surveyor General for Arizona, dated April 17, 1916 and designated as Homestead Entry Survey No. 464.

Situated in what will probably be, when surveyed, secs. 23, 26 and 27, T. 12 N., R. 17 E., Gila and Salt River Base and Meridian, Sitgreaves National Forest, Arizona.

Surveyed under the Acts of June 11, 1906, June 30, 1916 and July 31, 1916.

Survey commenced July 31, 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 31, 1916.

I observe the altitude of the sun for azimuth at cor. No. 6 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. $34^{\circ} 24' 43''$ N., Long. $110^{\circ} 32' 12''$ W., from special instructions from the Surveyor General, and later verified.

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Chains	Telescope	Time	Horizontal Angle	Vertical Angle
	Direct	9h. 34m. 50s.	74° 24' 00"	52° 18' 00"
	Reversed	9h. 35m. 45s.	75° 02' 00"	52° 57' 00"

Bearing of reference object, N. 0° 04' 39" W.

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 lower left and upper right quadrants of the field.

Telescope	Time	Horizontal Angle	Vertical Angle
Direct	9h. 36m. 45s.	73° 59' 00"	52° 41' 00"
Reversed	9h. 37m. 26s.	74° 40' 00"	52° 17' 00"

Bearing of reference object, N. 0° 05' 13" W.

The mean of these is N. 0° 04' 56" W. and to the corresponding meridian all the courses of this survey are referred.

RETRACEMENT

From the 1/4 sec. cor. bet. secs. 19 and 24, T. 12 N., Rs. 17 and 18 E., which is a sandstone 7 x 5 x 8 ins. above ground, marked 1/4 on West face, with mound of stone West of cor., whence:

A juniper, 4 ins. dia., bears N. 21° 15' E., 69 lks. dist., scribed 1/4 S 19 B. T.

Thence South

On random line bet. secs. 19 and 24.

40.00 Cor. for secs. 13, 18, 19 and 24 is not found after a careful search.

August, 1, 1916.

Beginning at cor. No. 1.

Identical with cor. H-1 of the list survey, which is

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a sandstone 12 x 7 x 12 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 3 x 2 ins. marked with a +, 14 ins. in the ground, over which set a sandstone 24 x 12 x 8 ins., chiseled + for the point and 1 - H E S. 464 on W. face; and raise a mound of stone 3 ft. base, 2 ft. high W. of cor., whence:

A yellow pine, 8 ins. dia., bears N. 54° 25' E., 49 lks. dist., scribed 1 H E S 464 + B T.

A yellow pine, 30 ins. dia., bears N. 45° 18' W., 86 lks. dist., scribed 1 H E S 464 + B T.

Cor. No. 4, H. E. S. 465, which is a sandstone 16 x 14 x 10 ins. above ground, marked 4 - H E S 465 on NE. face, bears N. 12° 15' W., 10.66 chs. dist. by direct measurement.

1/4 sec. cor. bet. secs. 19 and 24, heretofore described, bears N. 79° 10' 11" E., 97.13 chs. dist., by traverse which appears at the end

of these notes.

Lat. 34° 25' 30" N., Long. 110° 31' 28" W., from special instructions from the Surveyor General, and later verified.

Mag. decl. at 9:00 a.m., 14° 30' E. Mean mag. decl., 14° 27' E.

Thence S. 64° 04' W.

Ascend 35 ft. to rocky point in edge of timber.

10.00 Rocky point, bears WNW. and ESE. Descend 30 ft. to cor. in edge of timber.

10.28 Telephone line bears NE. and SW.

13.77 To cor. No. 2.

Identical with cor. H-2 of the list survey, which is a sandstone 8 x 8 x 8 ins. above ground, marked and witnessed as described by the Forest Service. I de-

Chains

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 12 x 7 ins., chiseled + for the point and 2 - H E S 464 on W. face; and raise a mound of stone 3 ft. base, 2 ft. high W. of cor., whence:

A yellow pine, 28 ins. dia., bears S. 87° 20' E., 69 lks. dist., scribed 2 H E S 464 + B T.

A yellow pine, 22 ins. dia., bears S. 22° 20' E., 71 lks. dist., scribed 2 H E S 464 + B T.

Thence S. 42° 02' W.

Along foot of NW. slope in scattered timber.

9.00 Arroyo, 10 lks. wide, 1 ft. deep, course NW. Ascend 20 ft. along gentle NW. slope.

13.30 Telephone line bears NE. and SW.

20.00 Top ascent. Descend along gentle NW. slope 15 ft.

25.75 Leave timber, bears NW. and SE.

30.70 Ascend 25 ft. to rocky knoll.

34.30 Rocky knoll bears NW. and SE. Descend 25 ft. to cor.

46.19 To cor. No. 3.

Identical with cor. H-3 of the list survey, which is a sandstone 10 x 5 x 8 ins. above ground, marked and witnessed as described by the Forest Service. I destroy all trace of this list cor. Deposit a sandstone 3 x 2 x 1 ins. marked with a +, 14 ins. in the ground, over which set a sandstone 24 x 8 x 5 ins., chiseled + for the point and 3 - H E S 464 on NW. face. No stone available for mound, therefore dig pits 24 x 24 x 12 ins. crosswise on claim lines 7 ft. dist.; and raise a mound of earth 4 ft. base, 2 ft. high NW. of cor., whence:

A yellow pine, 24 ins. dia., bears S. 23° 41' W.,

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Chains 249 lks. dist., scribed 3 H E S 464 + B T.
 A yellow pine, 24 ins. dia., bears S. 73° 42' W.,
 227 lks. dist., scribed 3 H E S 464 + B T.

Thence S. 79° 47' W.
 Ascend 30 ft. along N. slope in timber.
 15.90 Top ascent. Descend 30 ft. to cor.
 16.45 Telephone line bears N. 10° E. and S. 10° W.
 17.97 To cor. No. 4.
 Identical with cor. H-4 of the list survey, which is
 a sandstone 8 x 6 x 8 ins. above ground, marked and
 witnessed as described by the Forest Service. I de-
 stroy all trace of this list cor. Deposit a sand-
 stone 6 x 6 x 3 ins. marked with a +, 14 ins. in the
 ground, over which set a sandstone 24 x 12 x 12 ins.,
 chiseled + for the point and 4 - H E S 464 on W. face;
 and raise a mound of stone 3 ft. base, 2 ft. high W.
 of cor., whence:
 A yellow pine, 20 ins. dia., bears S. 4° 45' E.,
 158 lks. dist., scribed 4 H E S 464 + B T.
 A yellow pine, 18 ins. dia., bears N. 77° 37' E.,
 124 lks. dist., scribed 4 H E S 464 + B T.
 August 1, 1916.

August 2, 1916.
 Thence S. 55° 14' E.
 Ascend steep SW. slope 65 ft. in timber. Fence on
 line.
 1.50 Telephone line bears NE. and SW.
 5.50 Top ascent. Leave timber, bears E. and W. and descend
 35 ft. along South slope in open to cor.
 28.93 To cor. No. 5.
 Identical with cor. H-5 of the list survey, which is
 a sandstone 6 x 4 x 6 ins. above ground, marked and

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witnessed as described by the Forest Service. I de-
stroy all trace of this list cor. Deposit a sand-
stone 3 x 2 x 1 ins. marked with a +, 18 ins. in the
ground, over which set a sandstone 28 x 9 x 8 ins.,
chiseled + for the point and 5' - H E S. 464 on W. face;
and raise a mound of stone 3 ft. base, 2 ft. high W.
of cor., whence:

A yellow pine, 18 ins. dia., bears N. 7° 43' E.,
49 lks. dist., scribed 5 H E S 464 + B T.

A yellow pine, 10 ins. dia., bears N. 61° 05' E.,
98 lks. dist., scribed 5 H E S 464 + B T.

Thence S. 62° 45' W.

Descend gentle open slope. 20 ft. along edge of timber.

21.11 To cor. No. 6.

Identical with cor. H-6 of the list survey, which is
a sandstone 5 x 3 x 6 ins. above ground, marked and
witnessed as described by the Forest Service. I de-

stroy all trace of this list cor. Deposit a sand-
stone 5 x 2 x 1 ins. marked with a +, 28 ins. in the
ground, over which set a limestone 38 x 12 x 4 ins.,
chiseled + for the point and 6. - H E S 464 on N. face;
and raise a mound of stone 3 ft. base, 2 ft. high N.
of cor., whence:

A yellow pine, 22 ins. dia., bears S. 24° 28' E.,
114 lks. dist., scribed 6 H E S. 464 + B T.

A yellow pine, 14 ins. dia., bears S. 43° W., 100
lks. dist., scribed 6 H E S 464 + B T.

Thence N. 33° 04' W.

In open, over level land. Fence on line.

4.07 Ranch road bears NE. and SW.

7.83 Pearce Wash, 80 lks. wide, 3 ft. deep, course N. Ascend

10 ft. to cor. along edge of timber.

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- 11.28 South cor. corral.
- 11.95 Telephone line bears N. 10° E. and S. 10° W.
- 12.42 West cor. corral.
- 22.10 To cor. No. 7.

Identical with cor. H-7 of the list survey, which is a sandstone 14 x 8 x 10 ins. above ground, marked and witnessed as described by the Forest Service. I destroy all trace of this list cor. Deposit a sandstone 5 x 5 x 3 ins. marked with a +, 14 ins. in the ground, over which set a sandstone 24 x 12 x 8 ins., chiseled + for the point and 7 - H E S 464 on E. face; and raise a mound of stone 3 ft. base, 2 ft. high E. of cor., whence:

A yellow pine, 10 ins. dia., bears N. 85° 22' E., 150 lks. dist., scribed 7 H E S 464 + B T.

A yellow pine, 6 ins. dia., bears N. 25° 31' E., 70 lks. dist., scribed 7 H E S 464 + B T.

Thence N. 0° 17' W.

Over open level land. Fence on line.

- 15.00 To cor. No. 8.

Identical with cor. H-8 of the list survey, which is a sandstone 10 x 5 x 6 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 3 x 2 ins. marked with a +, 16 ins. in the ground, over which set a limestone 26 x 16 x 8 ins., chiseled + for the point and 8 - H E S 464 on E. face; and raise a mound of stone 3 ft. base, 2 ft. high E. of cor., whence:

A yellow pine, 18 ins. dia., bears N. 4° 53' E., 110 lks. dist., scribed 8 H E S 464 + B T.

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A yellow pine, 24 ins. dia., bears N. 63° 30' W.,
117 lks. dist., scribed 8 H E S 464 + B T.

Thence N. 52° 42' E.

Ascend 50 ft. in brush to ridge.

17.50 Top ridge bears E. and W. Descend 60 ft. to arroyo.

33.20 Arroyo, 10 lks. wide, 1 ft. deep, course E. Ascend
45 ft. to ridge.

43.00 Ridge bears ESE. and WNW. Descend 45 ft. to arroyo.

52.40 Arroyo, 10 lks. wide, 1 ft. deep, course East. Ascend
95 ft. to cor.

64.07 To cor. No. 9.

Identical with cor. H-9 of the list survey, which is
a sandstone 7 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 limestone
5 x 4 x 1 ins. marked with a +, 14 ins. in the ground,
over which set a limestone 24 x 14 x 8 ins., chiseled
+ for the point and 9 - H E S 464 on S. face; and raise
a mound of stone 3 ft. base, 2 ft. high S. of cor.,
whence:

A yellow pine, 8 ins. dia., bears S. 67° 28' W.,
71 lks. dist., scribed 9 H E S 464 + B T.

A pinon, 10 ins. dia., bears S. 44° 19' E., 67
lks. dist., scribed 9 H E S 464 + B T.

Thence S. 81° 03' E.

Descend 105 ft. in open to wash.

7.20 Enter Pearce Wash, banks 2 ft. high, course ENE.

10.20 Leave wash.

12.40 Ranch road bears NNE. and SSW.

13.70 Telephone line bears S. 45° W. and N. 45° E.

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

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Chains

IMPROVEMENTS

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

A log dwelling, 20 x 15 ft., the long side of which bears NNW. and SSE. and SE. cor. of which bears N. 2° 17' E., 15.85 chs. dist. from cor. No. 6.

Value ----- \$200.00

A pole corral, 75 ft. square, the South cor. of which bears N. 33° 04' W., 11.28 chs. dist. from cor. No. 6.

Value ----- \$ 30.00

There is approximately 1-1/4 miles of wire fence.

Value ----- \$150.00

DESCRIPTION.

This claim is situated on Pearce Wash, at an elevation of 6300 ft. The general slope is to the NE. The bottom land extends through center of claim, with low ridges to East and West, the slopes of which extend on to the claim.

The soil in bottom land is a sandy loam of good depth and produces good crops. The soil on slopes is gravelly, shallow and of low agricultural value.

The timber consists of a scattered stand of yellow pine in the bottom with a good stand of yellow pine on West and N. slopes. The East slopes carry a mixed stand of yellow pine and pinon.

There is no water for irrigation. Water for domestic use is obtained from a hole in Pearce Wash.

This claim is not known to be mineral in character.

There are approximately 15 acres in cultivation.

CONFLICTS AND ADJOINING CLAIMS

There are no conflicting or adjoining claims. H. E. S. 465 of Clarence Owens lies 1/8 of a mile to NE.

Chains

Heber, Arizona, the nearest post office, is 8 miles to West and Holbrook, Arizona, the nearest railroad point, is 42 miles NE. Both are reached by good wagon roads.

TRAVERSE

Cor.	Course	Dist.	N	S	E	W
1-2	S. 64° 04' W.	13.77		6.02		12.38
2-3	S. 42° 02' W.	46.19		34.31		30.93
3-4	S. 79° 47' W.	17.97		3.19		17.69
4-5	S. 55° 14' E.	28.93		16.50	23.77	
5-6	S. 62° 45' W.	21.11		9.67		18.77
6-7	N. 33° 04' W.	22.10	18.52			12.06
7-8	N. 0° 17' W.	15.00	15.00			0.07

8-9	N. 52° 42' E.	64.07	38.83		50.97	
9-1	S. 81° 03' E.	17.33		2.70	17.12	
		246.47	72.35	72.39	91.86	91.90
			72.35			91.86
Error in Lat. and Dep.				.04		.04

Closing error, 1:4357.

Survey completed August 2, 1916.

R. P. Johnson

Surveyor - Draftsman

SITGREAVES NATIONAL FOREST

STATE OF ARIZONA

Chains

Direct Solar, July 31, 1916, At cor. No. 6.

Lat. 34° 24' 43" N., Long. 110° 32' 12" W., Elev. 6300 ft.

Telescope	Time	Horizontal Angle	Vertical Angle	Pos. Sun
Direct	9h. 34m. 50s.	74° 24' 00"	52° 18' 00"	+
Reversed	9h. 35m. 45s.	75° 02' 00"	51° 57' 00"	+
	9h. 35m. 17s.	74° 43' 00" ✓	52° 07' 30" ✓	
			36" ✓	
			52° 06' 54" ✓	

Decl., 18° 14' 58" ✓

$$\text{Cos. Q.} = \frac{\sin. 18^\circ 14' 58''}{\cos. 34^\circ 24' 43'' \times \cos. 52^\circ 06' 54''} - \frac{\tan. 34^\circ 24' 43'' \times \tan. 52^\circ 06' 54''}{\tan. 34^\circ 24' 43'' \times \tan. 52^\circ 06' 54''}$$

log. sin. 18° 14' 58" =	9.495759 ✓
log. cos. 34° 24' 43" =	9.916452 ✓
log. cos. 52° 06' 54" =	9.788224 ✓
	<u>9.791083 ✓</u> = log. .61813 ✓
log. tan. 34° 24' 43" =	9.835703 ✓
log. tan. 52° 06' 54" =	10.108988 ✓
	<u>9.944691 ✓</u> = log. .88042 ✓

$$\text{Cos. Q.} = .26229 \checkmark$$

$$\text{Q.} = 74^\circ 47' 39''$$

Bearing of reference object, N. 0° 04' 39" W. ✓

(2)

Telescope	Time	Horizontal Angle	Vertical Angle	Pos. Sun
Direct	9h. 36m. 45s.	73° 59' 00"	52° 41' 00"	+
Reversed	9h. 37m. 26s.	74° 40' 00"	52° 17' 00"	+
	9h. 37m. 05s.	74° 19' 30" ✓	52° 29' 00" ✓	
			36" ✓	
			52° 28' 24" ✓	

Decl., 18° 14' 58" ✓

$$\text{Cos. Q.} = \frac{\sin. 18^\circ 14' 58''}{\cos. 34^\circ 24' 43'' \times \cos. 52^\circ 28' 24''} - \frac{\tan. 34^\circ 24' 43'' \times \tan. 52^\circ 28' 24''}{\tan. 34^\circ 24' 43'' \times \tan. 52^\circ 28' 24''}$$

log. sin. 18° 14' 58" =	9.495759 ✓
log. cos. 34° 24' 43" =	9.916452 ✓
log. cos. 52° 28' 24" =	9.784710 ✓
	<u>9.794597 ✓</u> = log. .62316 ✓
log. tan. 34° 24' 43" =	9.835703 ✓
log. tan. 52° 28' 24" =	10.114601 ✓
	<u>9.950304 ✓</u> = log. .89188 ✓

$$\text{Cos. Q.} = .26872 \checkmark$$

$$\text{Q.} = 74^\circ 24' 43'' \checkmark$$

Bearing of reference object, N. 0° 05' 13" W. ✓

Chains

Direct solar, July 11, 1916, 10:00 a.m. 100.00
 Lat. 34° 24' 43" N., Long. 110° 32' 32" W., Elev. 1100 ft.
 Telescope Time Horizontal Vertical
 Angle Angle Angle
 Direct 21.32m. 88.74° 54' 00" 52° 18' 00"
 Reversed 21.32m. 88.74° 54' 00" 111.57' 00"
 21.32m. 118.74° 54' 00" 52° 18' 00"
 21.32m. 118.74° 54' 00" 52° 18' 00"

Decl. 18° 14' 58"
 Cos. 0.9511
 Sin. 0.3090
 21.32m. 88.74° 54' 00" x cos. 0.9511 = 20.28m.
 21.32m. 88.74° 54' 00" x sin. 0.3090 = 6.59m.
 21.32m. 118.74° 54' 00" = 20.28m.
 21.32m. 118.74° 54' 00" = 6.59m.
 21.32m. 118.74° 54' 00" = 20.28m.
 21.32m. 118.74° 54' 00" = 6.59m.
 21.32m. 118.74° 54' 00" = 20.28m.
 21.32m. 118.74° 54' 00" = 6.59m.

Result of reference object, N. 0° 04' 33" W.
 (2)

Telescope Time Horizontal Vertical
 Angle Angle Angle
 Direct 21.32m. 88.74° 54' 00" 52° 18' 00"
 Reversed 21.32m. 88.74° 54' 00" 111.57' 00"
 21.32m. 118.74° 54' 00" 52° 18' 00"
 21.32m. 118.74° 54' 00" 52° 18' 00"

Decl. 18° 14' 58"
 Cos. 0.9511
 Sin. 0.3090
 21.32m. 88.74° 54' 00" x cos. 0.9511 = 20.28m.
 21.32m. 88.74° 54' 00" x sin. 0.3090 = 6.59m.
 21.32m. 118.74° 54' 00" = 20.28m.
 21.32m. 118.74° 54' 00" = 6.59m.
 21.32m. 118.74° 54' 00" = 20.28m.
 21.32m. 118.74° 54' 00" = 6.59m.
 21.32m. 118.74° 54' 00" = 20.28m.
 21.32m. 118.74° 54' 00" = 6.59m.

Result of reference object, N. 0° 05' 12" W.
 (2)

DIRECTIONS.—1. Carry out calculations 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 footing in red ink.

The corrections for balancing fallings should be proportional to the lengths of the lines.

3. In calculations of fallings take result to nearest link. In calculations of N. and S. areas drop all after second decimal. Surveyors are required to use the Standard Field Tables issued by the G. L. O.

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

TABLE AND CALCULATIONS OF HOMESTEAD ENTRY SURVEY NO. 464, STATE OF ARIZONA.

CORNERS.	BEARING.	DISTANCE.	LATITUDES.		DEPARTURES.		DOUBLE M. D.	N. AREAS.	S. AREAS.
			NORTH.	SOUTH.	EAST.	WEST.			
1-2	S. 64° 04' W.	13.77		6.02		12.38	123.82	745.40	40
2-3	S. 42° 02' W.	46.19		34.31		30.93	80.52	2761.84	84
3-4	S. 79° 47' W.	17.97		3.19		17.69	31.91	101.79	79
4-5	S. 55° 14' E.	28.93		16.50		23.77	38.00	626.62	62
5-6	S. 62° 45' W.	21.11		9.67		18.77	43.01	415.91	91
6-7	N. 33° 04' W.	22.10	18.52			12.06	12.19	225.88	88
7-8	N. 0° 17' W.	15.00	15.00			07	07	1.05	05
8-9	N. 52° 42' E.	64.07	38.83			50.97	50.98	1980.06	06
9-1	S. 81° 03' E.	17.33		2.70		17.12	119.08	321.52	52
		246.47	72.35	72.39		91.86		2206.99	08
			72.37	72.37		91.88		2206.99	09
								20/2766	09
								138	30

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EMH

DIRECTIONS.—1. Carry out calculations 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 footing in red ink.
 The corrections for balancing fallings should be proportional to the lengths of the lines.
 3. In calculations of fallings take result to nearest link. In calculations of N. and S. areas drop all after second decimal. Surveyors are required to use the Standard Field Tables issued by the G. L. O.
 4. Only three copies of this tabulation are necessary, for the District Office, the Surveyor General, and the Commissioner.

TABLING AND CALCULATIONS OF HOMESTEAD ENTRY SURVEY NO. 464, STATE OF Arizona.

CORNERS.	BEARING.	DISTANCE.	LATITUDES.			DEPARTURES.		DOUBLE M. D.	N. AREAS.	S. AREAS.
			NORTH.	SOUTH.	EAST.	WEST.				
1, 464-4, 465	N. 12° 15' W.	Tie...Cor. 10.66	1 to 1/4 sec. cor. 10.42	sec. cor. 19 and 27, 2 26	bet. secs. 28 14	T. 12 N., Rs. 17 and 18 E.				
4, 465-3, 465	N. 78° 42' E.	28.70	5 62		28 14					
3, 465-2, 465	N. 8° 19' W.	20.25	20 04		2 93					
2, 465-1, 465	S. 86° 55' E.	26.78	1 44		26 74	log. 95.40	= 1.979548			
1, 465-TP1	S. 72° 47' E.	28.94	8 57		27 64	log. 18.25	= 1.261263			
TP1-TP2	S. 59° 07' E.	14.64	7 51		12 56	log. tan. 79° 10' 11"	= 10.718285			
TP2-TP3	S. 81° 46' E.	4.00	57		3 96	log. 95.40	= 1.979548			
TP3-1/4	N. 80° 30' E.	1.57	26		1 55	log. sin. 79° 10' 11"	= 9.992194			
			36 34	18 09	100 59	log. 97.13	= 1.987354			
			18 09		5 19					
			18 25		95 40					

290 H

81

H E S # 464

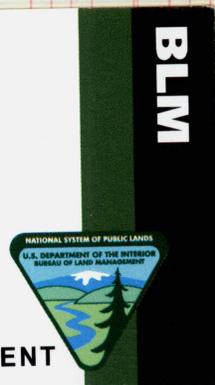
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COURSE.	DISTANCE.	N.	S.	E.	W.
Ties 464 & 465 to 1/4 Cor. Secs. 198 2 4.					
1-464 to 1/4 Cor.				9540	
N 79° 10' 11" E	9713	1825			
1/4 Cor. to 1-465					4571
N 70° 16' 27" W	4856	1639			
1-2, 465					2674
N 86° 55' W	2678	144			
2-2, 465			2004	293	
S 8° 19' E	2025				
3-4, 465			562		2814
S 78° 42' W	2870				
4-465 to 1-464			1042	226	
S 12° 15' E	1066				
		3608	3608	10059	10059
Ties 451 & 465 thru sec. line					
Sec. Cor. to 1-451					2245
S 87° 04' 03" W	2248		115		
1-2, 451					934
S 11° 25' W	4717		4624		
2-2, 451					1540
N 89° 40' W	1540	09			
3-4, 451				161	1697
S 84° 35' W	1705				
4-451 to 7-465					
S 71° 09' E	1269		410	1201	
7-1, 465					
S 75° 43' E	5202		5155	698	
Tie 465 to 1/4 Sec. Cor.					
S 70° 16' 27" E	4856		1639	4571	
1/4 Sec. Cor. to Sec. Cor.					
North	120	120			
	33537			6470	6416
		12580	11533		
		12009	12104		
			12104		
error 1:308			95	54	

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BUREAU OF LAND MANAGEMENT



APPROVAL

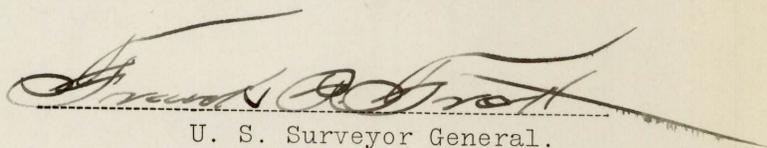
Office of the United States Surveyor General,

Phoenix, Arizona, May 22, 1918

The foregoing field notes of Homestead Entry Survey No.

464

executed by R. P. A. Johnson, Surveyor-Draftsman
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.