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ORIGINAL

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U. S. DEPARTMENT OF AGRICULTURE

FOREST SERVICE

553 add.

DEC-8-1919
APR 17 1920

FIELD NOTES

OF

HOMESTEAD ENTRY SURVEY NO. 551

SITUATED IN THE **SITGREAVES** NATIONAL FOREST

ADMINISTRATIVE DISTRICT NO. 3

In Section 1 , - surveyed, Township 12 N., Range 16 E.
In Section 12 , unsurveyed, Township 12 N., Range 16 E.
In Section 6 , unsurveyed, Township 12 N., Range 17 E.
In Section 7 , unsurveyed, Township 12 N., Range 17 E.

(Twp. 12 N., Range 16 E. partly surveyed & awaiting appr.)

of the

GILA AND SALT RIVER BASE AND Meridian.

State of

ARIZONA

Applicant for listing **Samuel U. Porter,**
Residence **Heber, Arizona.**
Application No. **568** , dated **March 28** , 19 **15**
List No. **3-3887** , dated **April 11** , 19 **17**

Applicant for survey **Wilford A. Porter,**
Residence **Heber, Arizona.**
H. E. No. **039948** , dated **January 24** , 1919
Land District Office, **Phoenix, Arizona.**

Survey executed by **Frank D. Yost,** Surveyor - Forest Service,
[Forest Service Title.]
Under special instructions dated **February 15** , 19 **18**
Survey commenced **June 29** , 19 **19**
Survey completed **June 30** , 19 **19**
Under Acts of **June 11, 1906,** and **October 1** , 1918 (OVER)



1

OATH OF ASSISTANTS

We hereby certify that we assisted **Frank D. Yost,**
Surveyor - Forest Service, in surveying all those
 [Forest Service Title.] parts or portions of Homestead Entry Survey No. **551**, 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 estab-
 lished, according to the instructions furnished 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 oaths to Assistants; hence, they were taken by the Surveyor.

H. C. Brandebury
 Chainman

H. H. Longfellow
 Chainman

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

Frank D. Yost
 Surveyor - Forest Service,

OATH OF SURVEYOR

I, **Frank D. Yost,** Surveyor - Forest Service,
 [Forest Service Title.] do solemnly swear that, in strict conformity with the special instruc-
 tions of the United States Surveyor General for **ARIZONA**, dated
February 15, 19 **18**, 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. **3-3887**, dated **April 11**, 19 **17**, for
 Patent , under the Act of **June 11**, 19 **06**,
 the same to be known as Homestead Entry Survey No. **551**,
 situated within the **SITGREAVES** National Forest, in
 unsurveyed Section **12**, Township **12 N.**, Range **16 E.**, and
 unsurveyed Section **6**, Township **12 N.**, Range **17 E.**, and
 unsurveyed Section **7**, Township **12 N.**, Range **17 E.**, and
 unsurveyed Section **1**, Township **12 N.**, Range **16 E.** (Sur. awaiting Appr.)
 of the **GILA AND SALT RIVER BASE** & 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.

Frank D. Yost
 Surveyor - Forest Service,
 [Forest Service Title.]

Subscribed and sworn to before me this **Fifth** day of
November, 19 **19**.

Echel S. Myers
 Notary Public,



8-2349

My commission expires March 17, 1921.

SITGREAVES NATIONAL FOREST

STATE OF ARIZONA.

Chains Applicant for listing, Samael U. Porter; Application No. 568, dated March 28, 1915; List No. 3-3887, dated April 11, 1917; H. E. 039948 made in the Phoenix Land Office on January 24, 1919 by Wilford A. Porter.

Surveyed under special instructions from the Surveyor General for Arizona, dated February 15, 1918, and designated as Homestead Entry Survey No. 551.

Situated in Sec. 1, T. 12 N., R. 16 E. (survey awaiting approval) and in what will probably be when surveyed Sec. 12, T. 12 N., R. 16 E. and Secs. 6 and 7, 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 and October 1, 1918.

Survey commenced June 29, 1919, and executed with a Buff and Buff transit No. 10019, equipped with Smith solar attachment.

I test the adjustments of the transit and make necessary corrections.

All distances are horizontal, and were reduced from measurements made directly on the slope with a 500 link steel tape. The slope angles were determined with a clinometer.

June 29, 1919.

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

Latitude 34° 28' 06" N., Long. 110° 35' 48" W. from special instructions from the Surveyor General and later verified.

HOMESTEAD ENTRY SURVEY NO. 551

SITGREAVES NATIONAL FOREST

STATE OF ARIZONA.

Chains

Telescope	Pos. Sun	l.m.t. p.m.	Horizontal Angle	Vertical Angle
-----------	----------	-------------	------------------	----------------

Direct	+°	6h.21m.30s.	148°27'00"	15°54'00"
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Reversed	°+	6h.22m.00s.	148°56'00"	15°15'30"
----------	----	-------------	------------	-----------

The bearing of the reference mark is N. 76° 31' 13" E.

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

Telescope	Pos. Sun	l.m.t. p.m.	Horizontal Angle	Vertical Angle
-----------	----------	-------------	------------------	----------------

Direct	+°	6h.22m50s.	148°17'30"	15°05'30"
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Reversed	°+	6h.23m30s.	148°45'30"	15°29'30"
----------	----	------------	------------	-----------

Bearing of reference mark is N. 76° 32' 08" E.

The two observations give a mean bearing for the reference mark of N. 76° 31' 41". I accept bearing of reference mark as N. 76° 32' E. and from the corresponding meridian all the courses of this survey were deflected by sustained angulation.

Note: The courses of this survey were run on an assumed azimuth and subsequently corrected to the meridian as above determined.

RETRACEMENTS

June 29, 1919.

From the cor. of Secs. 1, 6, 7 and 12, T. 12 N., Rs. 16 and 17 E. (survey awaiting approval), an iron post 3 ins. dia. 24 ins. above ground, surrounded by a mound of stone 6 ft. base 2 ft. high, with brass cap marked and witnessed as described by the Surveyor General.

Thence West,

On a random line bet. secs. 1 and 12 E/2.

40.02 The 1/4 cor. bet. secs. 1 and 12, T. 12 N., R. 16 E. (survey awaiting approval), an iron post 1 in. in dia. 12 ins. above ground, marked and witnessed as describ-

SITGREAVES NATIONAL FOREST

STATE OF ARIZONA.

Chains ed by the Surveyor General.

True line is East 40.02 chs.

Return to Cor. of Secs. 1, 6, 7 and 12, heretofore described.

Thence North,

On a random line bet. secs. 1 and 6.

32.23 The Closing Corner bet. secs. 1 and 6 on the S. bdy of T. 13 N., R. 17 E., (survey awaiting approval) an iron post 2 ins. dia. 18 ins. above ground, surrounded by a mound of stone 6 ft. base 18 ins. high, with brass cap marked and witnessed as described by the Surveyor General.

True line is North 32.23 chs.

BOUNDARIES OF CLAIM

June 29, 1919.

Beginning at Cor. No. 1,

Identical with cor. H/1 of the list survey, which is a sandstone 10 x 8 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 5 x 3 x 2 ins., marked with a + 24 ins. in the ground, over which set an iron post 36 ins. long 2 ins. in dia. with brass cap marked 1919 on S. rim and 1 H E S in portion of circle facing claim; raise a mound of stone 3 ft. base 2 ft. high SW. of cor., whence:

A pine 20 ins. dia. bears N. 62° 39' E.,
199 lks. dist.

A pine 20 ins. dia. bears N. 40° 22' W.
693 lks. dist.

Each blazed and scribed 1 H E S 551 + B T.
Cor. of wire fence bears S. 21° 38' W. 7 lks.

HOMESTEAD ENTRY SURVEY NO. 551

SITGREAVES NATIONAL FOREST

STATE OF ARIZONA.

Chains

dist. from which fences bear SW. and SSW.

The standard 1/4 cor. on the S. bdy of Sec. 31, T. 13 N., R. 17 E (accepted), a sandstone 8 x 6 x 8 ins. above ground marked and witnessed as described by the Surveyor General bears N. 60° 50' 41" W. 22.66 chs. dist by traverse which appears at the end of these notes.

Lat. 34° 28' 06" N., Long. 110° 35' 48" W. from special instructions from the Surveyor General and later verified.

Mag. decl. at 8 a.m. 14° 30' E. Mean mag. decl. 14° 26' E.

Thence S. 4° 34' W.

Over level bottom land. Wire fence parallels line inside claim. Cultivated land on West.

19.29

To Cor. No. 2,

Identical with cor. H/2 of the list survey, which is a sandstone 14 x 10 x 3 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 + 18 ins. in the ground, over which set a sandstone 26 x 14 x 4 ins. chiseled + for the point and 2 H E S 551 on W. face; raise a mound of stone 3 ft. base 2 ft. high W. of cor., whence:

A pine 36 ins. dia. bears N. 22° 25' E., 216 lks. dist.

A pine 16 ins. dia. bears S. 48° 37' E., 224 lks. dist.

Each blazed and scribed 2 H E S 551 + B T.

Thence S. 17° 09' E.

Over level bottom land.

0.50

West bank dry wash 100 lks. wide, banks 4 ft. high, course North. Thence over bed of wash.

SITGREAVES NATIONAL FOREST

STATE OF ARIZONA.

Chains 2.67	East bank of dry wash, banks 4 ft. high, from SE. course North. Thence over level bottom land.
20.99	East bank of dry wash 330 lks. wide, banks 3 ft. high, course NW. Thence over bed of wash.
27.38	West bank of dry wash 300 lks. wide, banks 2 ft. high, course NW. Thence over level bottom land.
28.27	To Cor. No. 3, Identical with cor. H/3 of the list survey, which is a sandstone 10 x 8 x 4 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 2 x 1 ins. marked with a + 25 ins. in the ground, over which set a sandstone 34 x 14 x 14 ins. chiseled + for the point and 3 H E S 551 on SW. face; raise a mound of stone 3 ft. base 2 ft. high SW. of cor., whence: A pine 36 ins. dia. bears S. 35° 53' W, 729 lks. dist. A pine 16 ins dia. bears N. 29° 35' W., 197 lks. dist. Each blazed and scribed 3 H E S 551 + B T. June 29, 1919.
	June 30, 1919. Thence S. 38° 26' E. Over level bottom land.
0.75	West bank of dry wash 250 lks. wide banks 3 ft. high, course N. Thence over bed of wash.
4.97	East bank of dry wash 300 lks. wide, banks 3 ft. high, from SW. course North. Thence over grassy bottom land, gradually ascending 20 ft. over gentle SW. slope.
30.97	Begin asc. of 25 ft. to cor. over steep rocky West slope.
32.32	To Cor. No. 4, Identical with Cor. H/4 of the list survey, which is a

SITGREAVES NATIONAL FOREST

STATE OF ARIZONA.

Chains

sandstone 14 x 10 x 4 ins. above ground, marked and witnessed as described by the Forest Service, set in a mound of stone against 30 ft. vertical West face of a limestone cliff. I destroy all trace of the list survey. I chisel + for the point and 4 H E S 551 4 ft. above ground on the vertical W. face of the limestone cliff for Cor. No. 4 of this survey; and raise a mound of stone 3 ft. base 2 ft. high NW. of cor., whence:

+ on an embedded limestone boulder showing
6 x 4 x 3 ft. above ground chiseled
4 H E S 551 + B R, bears S. 20° 01' W.
10 lks. dist.

No other witnesses available, pits impracticable.

Thence S. 88° 32' W.

Desc. 25 ft. over steep rocky W. slope.

1.10 Bottom of steep descent; thence over level bottom land, thru scattering pine and juniper.

9.11 Wash 75 lks. wide, banks 3 ft. high (dry), course NW.

22.91 Begin asc. of 15 ft. over rocky NE. slope thru pine timber.

30.84 To Cor. No. 5,

Identical with cor. H/5 of the list survey, which is a sandstone 13 x 10 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 2 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 5 H E S 551 on NE. face.

A pine 24 ins. dia. bears S. 54° 54' W.,
174 lks. dist.

A pine 16 ins. dia. bears N. 11° 08' W.,

SITGREAVES NATIONAL FOREST

STATE OF ARIZONA.

155

Chains 191 lks. dist.
 . . . Each blazed and scribed 5 H E S 551 + B T.

Thence N. 23° 45' W.
 Desc. 20 ft. over rocky NW. slope thru pine timber.

5.10 Wash 110 lks. wide, banks 3 ft. high (dry), course NE.
 Bottom of desc., thence over level bottom land. Leave
 pine timber.

11.91 Begin asc. of 35 ft. over steep rocky SE. slope, thru
 scrub oak.

13.27 Foot of 70 ft. cliff.

13.57 Top of cliff. Asc. 20 ft. over rocky SE. slope, thru
 scrub oak.

16.29 Top of ridge bears NE.; and SW. Desc. 45 ft. over rocky
 NW. slope.

19.75 Top of 50 ft. vertical cliff.

20.20 Bottom of cliff. Desc. 35 ft. over rocky NW. slope.

23.07 Bottom of desc.. Thence over rolling land thru scattered
 oak brush and pine timber.

55.96 To Cor. No. 6, and closing cor. on line bet. secs. 1 and
 12.
 Deposit a sandstone 5 x 4 x 3 ins. marked with a +
 18 ins. in the ground, over which set a sandstone
 28 x 14 x 12 ins. chiseled + for the point, 6 H E S 551
 on NE. face, and C C on the SE face; raise a mound
 of stone 3 ft. base 2 ft. high NE. of cor., whence:
 A pine 20 ins. dia. bears S. 66° 57' W.,
 249 lks. dist.
 A pine 40 ins. dia. bears S. 45° 21' E.,
 25 lks. dist.
 Each blazed and scribed 6 H E S 551 C C + B T.
 The cor. of Secs. 1, 6, 7 and 12, T. 12 N., Rs.
 16 and 17 E., heretofore described, bears East
 4.05 chs. dist.

Chains

The 1/4 sec. cor. bet. secs. 1 and 12 heretofore

described bears West 55.97 chs. dist.

Thence N. 25° 06' W.

Over level bottom land.

3.12 To cor. No. 7,

Identical with cor. H/6 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 destroy all trace of this list cor. Deposit a sandstone 3 x 2 x 2 ins. marked with a + 26 ins. in the ground, over which set an iron post 36 ins. long, 2 ins. dia. with brass cap mkd 1919 on S. rim and 7 H. E. S. 551 in portion of circle facing the claim; raise a mound of stone 3 ft. base 2 ft. high E. of cor., whence:

A cedar 14 ins. dia. bears N. 53° 02' E., 342 lks. dist.

A cedar 14 ins. dia. bears N. 49° 20' W., 202 lks. dist.

Each blazed and scribed 7 H. E. S. 551. + B. T.

Cor. of wire fence bears S. 25° E. 6 lks. dist from which fences bear NW. and SE. inside of claim.

Thence N. 58° 08' E.

Along foot of rocky SE. slope. Wire fence parallels line inside claim. Cultivated land on SE.

6.21 To Cor. No. 8, and closing corner. on line bet. secs.

1 and 6, T. 12 N., Rs. 16 and 17 E.

Deposit a sandstone 3 x 2 x 2 ins. marked with a + 24 ins. in the ground, over which set an iron post 36 ins. long 2 ins. dia. with brass cap mkd 1919 on S. rim, 8 H. E. S. 551 in SE/2 and C. C. in the SW quadrant on closing line; raise a mound of stones and earth 3 ft.

HOMESTEAD ENTRY SURVEY NO. 551

SITGREAVES NATIONAL FOREST

STATE OF ARIZONA.

Chains base and 2 ft. high on line S. 58° 08' W. of cor.,
whence:
A pine 14 ins. dia. bears N. 44° 54' E.,
256 lks. dist.
A pine 12 ins. dia. bears N. 37° 07' W.,
360 lks. dist.
Each blazed and scribed 8 H E S 551 C C + B T.
Cor. of secs. 1, 6, 7 and 12 heretofore describ-
ed bears South 6.15 chs. dist.
Closing corner bet. Secs. 1 and 6 on S. bdy T.
13 N., R. 17 E. heretofore described bears
North 26.08 chs. dist.

Thence N. 56° 12' E.
Over rolling land thru scrub oak.

27.01 To Cor. No. 1, the place of beginning.

AREA

Area in Sec. 1-----	2.20 Acres
Area in Secs. 6, 7 and 12-----	157.78 Acres
Total Area-----	159.98 Acres

IMPROVEMENTS

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

A pole and shingle house 15 x 20 ft. the long sides extending N. and S., the NW. cor. of which bears S. 41° E., 14.21 chs. dist. from cor. No. 7.

Value-----\$200.00

A frame shed 12 x 12 ft., the long sides extending E. and W., the NW. cor. of which bears S. 47° 15' E. 13.41 chs. dist. from cor. No. 7.

Value-----\$50.00

HOMESTEAD ENTRY SURVEY NO. 551

STIGREAVES NATIONAL FOREST

STATE OF ARIZONA.

Chains. Approximately 1-1/2 miles of wire fencing.

Value-----\$200.00

DESCRIPTION.

Claim consists of level and slightly rolling bottom land in Black Canyon. The soil is a dark sandy loam, of good depth and very fertile. Approximately 75 percent of the area is suitable for agricultural purposes, of which 70 acres were under cultivation at the time of survey. Dry farming methods are depended upon to grow crops. Water for domestic use may be obtained from seeps in the wash along the East boundary of the claim.

There is no timber of commercial value on the claim. I saw no indications of mineral on the claim.

CONFLICTS AND ADJOINING CLAIMS

There are no conflicts or adjoining claims. Heber, Arizona, the nearest settlement and postoffice, lies about 2-1/2 miles dist. in a southwesterly direction. Holbrook, Arizona, the nearest railway point, lies about 50 miles in a northeasterly direction and is reached by fair wagon road.

TRAVERSES

Course	Dist.	Area in Section 1		E.	W.
		N.	S.		
N. 23° 06' W.	3.12	2.87			1.22
N. 58° 08' E.	6.21	3.28		5.27	
South	6.15		6.15		
West	4.05				4.05
		6.15	6.15	5.27	5.27

Area in Secs. 6, 7 and 12 (unsurveyed)

S. 4° 34' W.	19.29	19.25			1.54
S. 17° 09' E.	28.27		27.01	8.34	
S. 38° 26' E.	32.32		25.32	20.09	
S. 88° 32' W.	30.84		.79		30.83
N. 23° 45' W.	55.96	51.22			22.54
East	4.05			4.05	
North	6.15	6.15			
N. 56° 12' E.	27.01	15.03		22.44	

SITGREAVES NATIONAL FOREST

STATE OF ARIZONA.

Chains

203.89

72.40

72.35

54.92

54.91

72.35

54.91

Error in Lat. and Dep. .05

.01

Closing error 1/3999

Survey completed June 30, 1919.



Surveyor - Forest Service

SITGREAVES NATIONAL FOREST

STATE OF ARIZONA.

Chains

TIE FROM COR. NO. 1 H E S 551 to STD 1/4 COR. ON S. BDY.
SEC. 31 T. 13 N., R. 17 E.

Course	Dist.	N.	S.	E.	W.
S. 56° 12' W.	27.01		15.03		22.44
North	26.08	26.08			
S. 89° 46' E.	2.65		.01	2.65	
		26.08	15.04	2.65	22.44
		<u>15.04</u>			<u>2.65</u>
		11.04			19.79

Resultant course N. 60° 50' 41" W. 22.66 chs.

SITGREAVES NATIONAL FOREST

STATE OF ARIZONA.

Chains June 29, 1919.

Direct solar obsn. at Cor. No. 1 H. E. S. 551.

Lat. $34^{\circ} 28' 06''$ N., Long. $110^{\circ} 35' 48''$ W. from special instructions from the Surveyor General and later verified.

Elevation approximately 6500 ft.

Telescope	Pos.	l.m.t.	Horizontal Angle	Vertical Angle
Direct	$+^{\circ}$	6h. 22m. 50s.	$148^{\circ} 17' 30''$	$15^{\circ} 05' 30''$
Reversed	$^{\circ} +'$	6h. 23m. 30s.	$148^{\circ} 45' 30''$	$15^{\circ} 29' 30''$
Means		6h. 23m. 10s.	$148^{\circ} 31' 30''$	$15^{\circ} 17' 30''$
			Corr. for Refr.	$2' 40''$
				$15^{\circ} 14' 50''$

Decl. $23^{\circ} 15' 07''$ N.

$$\cos Q = \frac{\sin 23^{\circ} 15' 07''}{\cos 34^{\circ} 28' 06'' \times \cos 15^{\circ} 14' 50''} - \tan 34^{\circ} 28' 06'' \times \tan 15^{\circ} 14' 50''$$

$\sin 23^{\circ} 15' 07'' = 9.5963497$

$\cos 34^{\circ} 28' 06'' = 9.9161586$

$\cos 15^{\circ} 14' 50'' = \frac{9.9844373}{9.6957538} = \log .49631$

$\tan 34^{\circ} 28' 06'' = 9.8366200$

$\tan 15^{\circ} 14' 50'' = \frac{9.4354927}{9.2721127} = \log .18712$

$\cos Q = .30919$

$Q = 71^{\circ} 59' 22''$

Bearing of Reference Mark N. $76^{\circ} 32' 08''$ E.

HOMESTEAD ENTRY SURVEY NO. 551

SITGREAVES NATIONAL FOREST

STATE OF ARIZONA.

Chains June 29, 1919.

Direct solar obsn. at cor. No. 1, H. E. S. 551.

Lat. 34° 28' 06" N., Long. 110° 35' 48" W. from special instructions from the Surveyor General and later verified.

Elevation approximately 6500 ft.

Telescope	Pos. Sun	l.m.t. p.m.	Horizontal Angle	Vertical Angle
Direct	+°	6h.21m.30s.	148°27'00"	15°54'00"
Reversed	o+	6h.22m.00s.	148°56'00"	15°15'30"
Means		6h.21m.45s.	148°41'30"	15°34'45"
		Corr. for Refr.		2°37"
				15°32'08"

Decl. 23° 15' 07" N.

$$\cos. Q = \frac{\sin 23^\circ 15' 07''}{\cos 34^\circ 28' 06'' \times \cos 15^\circ 32' 08''} - \tan 34^\circ 28' 06''$$

$$\times \tan 15^\circ 32' 08''$$

$$\sin 23^\circ 15' 07'' = 9.5963497$$

$$\cos 34^\circ 28' 06'' = 9.9161586$$

$$\cos 15^\circ 32' 08'' = 9.9838357$$

$$9.6963554 = \log. .49700$$

$$\tan 34^\circ 28' 06'' = 9.8566200$$

$$\tan 15^\circ 32' 08'' = 9.4440338$$

$$9.2806538 = 10\log. .19083$$

$$\cos. Q = .50617$$

$$Q = 72^\circ 10' 17''$$

Bearing of Reference Mark N. 76° 31' 13" E.

- 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. 551, STATE OF ARIZONA

CORNERS.	BEARING.	DISTANCE.	LATITUDES.		DEPARTURES.		DOUBLE M. D.	N. AREAS.		S. AREAS.	
			NORTH.	SOUTH.	EAST.	WEST.					
			Area in Sec. 1, T. 12 N., R. 16 E.								
39234 6-7 91982	N.23° 06' W.	3.12 ✓	2 87			1 22	1 22	3 50			
52794 7-8 84928	N.58° 08' E.	6.21 ✓	3 28		5 27		5 27	17 28 ⁹			
8-Sec.cor.	South	6.15 ✓		6 15			10 54			64 82	
Sec.cor-6	West	4.05 ✓				4 05	6 49				
			6 15	6 15	5 27	5 27		20 78		64 82	
										20 78	
										20 / 44 04	
										2 20 Acres ✓	
											FRT

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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.

8-2340

TABLING AND CALCULATIONS OF HOMESTEAD ENTRY SURVEY NO. 551, STATE OF ARIZONA.

CORNERS.	BEARING.	DISTANCE.	LATITUDES.		DEPARTURES.		DOUBLE M. D.	N. AREAS.		S. AREAS.	
			NORTH.	SOUTH.	EAST.	WEST.					
Area in Secs. 6, 7 and 12 (unsurveyed)											
07962 1-2 99683	S. 4° 34' W.	19.29 ✓		19 23		1 54	51 44			989 19	
29487 2-3 95554	S. 17° 09' E.	28.27 ✓		27 01	8 34		58 24			1573 64	
67160 3-4 78333	S. 33° 26' E.	32.32 ✓		25 32	20 09		86 67			2195 35	
02560 4-5 99967	S. 88° 32' W.	30.84 ✓		79		30 83	75 93			60 74	
40275 5-6 91531	N. 23° 45' W/	55.96 ✓	51 22			22 54	22 55	1154 79			
6-Sec. Cor.	East	4.05 ✓			4 05		4 05				
Sec. Cor-8	North	6.15 ✓	6 15				8 10	49 82			
8-1	N. 56° 12' E.	27.01 ✓	15 03		22 44		30 54	458 71			
		203.89	72 40	72 35	54 92	54 91		1663 32		4818 92	
			72 38	72 38	54 92	54 92				1663 32	
			72 35		54 91					1663 32	
Error in Lat. and Dep.			05		01					20/ 3155 60	
Closing error 1/3999 ✓										157 78	✓ FPT

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APPROVAL

Office of the United States Surveyor General,

Phoenix, Arizona, April 14, 1920

The foregoing field notes of Homestead Entry Survey No.

551

executed by Frank D. Gosh, Surveyor
under his special instructions, dated Feb. 15, 1918, having
been critically examined, and the necessary corrections and explanations
made, the said field notes, and the surveys they describe, are hereby
approved.

[Forest Service Title.]



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.