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U. S. DEPARTMENT OF AGRICULTURE
FOREST SERVICE

FIELD NOTES

DEC-8-1919
MAY-7-1920

OF

HOMESTEAD ENTRY SURVEY NO. 584

SITUATED IN THE TONTO NATIONAL FOREST

ADMINISTRATIVE DISTRICT NO. 3

In Section 27, unsurveyed, Township 10 N., Range 13 E. ✓

of the

GILA AND SALT RIVER BASE & Meridian.

State of

ARIZONA

Applicant for listing R. C. Russell ✓
 Residence Young, Arizona.
 Application No. 626, dated April 15, 19 16 ✓
 List No. 3-3845, dated July 1, 19 16 ✓

Applicant for survey William T. Roscoe, ✓
 Residence Young, Arizona.
 H. E. No. 041026, dated Dec. 24, 19 18 ✓
 Land Office Phoenix, Arizona.

Survey executed by Frank D. Yost, Surveyor - Forest Service, [Forest Service Title]
 Under special instructions dated ✓ March 10, 19 19
 Survey commenced ✓ June 11, 19 19
 Survey completed June 11, 19 19
 Under Acts of June 11, 1906, and October 1, 1918. [OVER] ✓



OATH OF ASSISTANTS

We hereby certify that we assisted
Surveyor - Forest Service,
[Forest Service Title.]

Frank D. Yost,
in surveying all those

parts or portions of Homestead Entry Survey No. **584**, 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.

H. E. Brandebury
Chairman

H. H. Long fellow
Chairman

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 instructions of the United States Surveyor General for **ARIZONA**, dated **March 10**, 19 **19**, 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. 3-3845, dated July 1, 1916, and a tract of unlisted land upon the application of R. C. Russell,

Application, No. 626, dated April 15, 1916, for Listing and Patent, under the Act of June 11, 1906, the same to be known as Homestead Entry Survey No. 584, situated within the **TONTO** National Forest, in un surveyed Section **27**, Township **10 N.**, Range **13 E.**, and -- surveyed Section ---, Township ---, Range ---,

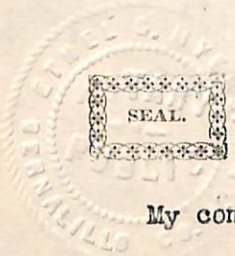
of the **GILA AND SALT RIVER BASE &** meridian, **ARIZONA**, and the related retracements and resurveys and section subdivisions, which are represented in the following field notes as having been surveyed by me; and I further solemnly swear that all the corners of said survey have been established and 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 G. Myers
Notary Public,

My commission expires March 17, 1921.



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TONTO NATIONAL FOREST

STATE OF ARIZONA

Chains

Applicant for listing, R. C. Russell; Application No. 626, dated April 15, 1916; List No. 3-3845, dated July 1, 1916; H. E. 041026 made in the Phoenix Land Office on December 24, 1918, by William T. Roscoe. Also a tract of unlisted land adjoining claimant's entry was included in this survey; the land is agricultural in character, was desired by entryman and will be listed as a basis for amendment of his entry. This is therefore a composite survey. The changes made in this survey are in accordance with the desires of the entryman and meet with the approval of the Forest Service. Copy of a signed statement agreeing to the changes made and also agreeing to amend his entry to conform to the survey is attached at the end of these notes.

Surveyed under Special Instructions from the Surveyor General for Arizona, dated March 10, 1919, and designated as Homestead Entry Survey No. 584.

Situated in what will probably be when surveyed Sec. 27, T. 10 N., R. 13 E., Gila and Salt River Base and Meridian, Tonto National Forest, Arizona.

Surveyed under the Acts of June 11, 1906 and October 1, 1918.

Survey commenced June 11, 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.

Chains

June 11, 1919.

At Cor. No. 5 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 all four quadrants of the field. Mark is to the right of the sun. My watch was set for local mean time.

Latitude $34^{\circ} 10' 58''$ N., Long. $110^{\circ} 59' 58''$ W., from Special Instructions from the Surveyor General, and later verified.

Telescope	Pos. sun	l.m.t. p.m.	Horizontal Angle	Vertical Angle
Direct	+ ^o	5h 26m 10s	$37^{\circ} 24' 30''$	$19^{\circ} 42' 30''$
Reversed	+ _o	5h 28m 20s	$37^{\circ} 42' 00''$	$18^{\circ} 44' 30''$
Direct	o+	5h 26m 45s	$37^{\circ} 54' 30''$	$19^{\circ} 36' 30''$
Reversed	+ _o	5h 27m 50s	$37^{\circ} 12' 30''$	$18^{\circ} 51' 30''$

Bearing of reference mark is N. $37^{\circ} 03' 50''$ W.

I again observe the altitude of the sun for azimuth at the same station. The reading on the reference mark is set at zero, and the sun was observed in all four quadrants of the field. Mark is to the right of the sun.

Telescope	Pos. sun	l.m.t. p.m.	Horizontal Angle	Vertical Angle
Direct	+ ^o	5h 31m 20s	$36^{\circ} 46' 30''$	$18^{\circ} 40' 30''$
Reversed	+ _o	5h 33m 35s	$37^{\circ} 03' 30''$	$17^{\circ} 41' 30''$
Direct	o+	5h 31m 45s	$37^{\circ} 16' 30''$	$18^{\circ} 34' 30''$
Reversed	+ _o	5h 33m 10s	$36^{\circ} 33' 30''$	$17^{\circ} 46' 30''$

The bearing of the reference mark is N. $37^{\circ} 03' 38''$ W.

The two observations give a mean bearing of N. $37^{\circ} 33' 44''$ W., I accept bearing of reference mark as N. $37^{\circ} 04' 1''$ W. and from the corresponding meridian all the courses of this survey were deflected by sustained angulation.

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

BOUNDARIES OF CLAIM

June 11, 1919.

Beginning at Cor. No. 1.

Deposit a sandstone 4 x 3 x 3 ins. marked with a +. 24 ins. in the ground, over which set an iron post 36 ins. long, 2 ins. dia., with brass cap marked 1919 on S. rim, and 1 H E S 584 in NE. quadrant; raise a mound of stone 3 ft. base, 2 ft. high, NE. of cor., whence:

A juniper 20 ins. dia., brs. S. 10° 00' E.,
69 lks. dist.

An oak 12 ins. dia., brs. S. 80° 07' E.,
125 lks. dist.

Each blazed and scribed 1 H E S 584 + B T
Cor. H-5 of the list survey, a sandstone

12 x 8 x 3 ins. above ground marked and
witnessed as described by the Forest
Service, brs. S. 4° 41' W., 7.61 chs.

dist. I destroy all trace of this list
cor.

The 1/4 sec. cor. on the N. bdy. of Sec. 3,

T. 9 N., R. 13 E., a quartz stone 10 x 10

x 7 ins. above ground, marked and witnessed

as described by the Surveyor General, brs.

S. 4° 46' 52" W., 86.98 chs. dist. by tra-

verse which appears at the end of these notes.

Lat. 34° 10' 31" N., Long. 111° 00' 14" W., from
Special Instructions from the Surveyor General and
later verified.

Chains ✓ Magnetic declination at 8 a.m. is $14^{\circ} 30' E.$, Mean
 ✓ Magnetic declination, $14^{\circ} 26' E.$
 ✓ Thence N. $5^{\circ} 50' W.$
 Over rolling mesa land.

5.41 Arroyo, 10 lks. wide, banks 2 ft. high, (dry) course
 N. $75^{\circ} W.$

6.87 Arroyo, 15 lks. wide, banks 2 ft. high, (dry) course
 S. $75^{\circ} W.$

✓ 9.75 To Cor. No. 2.
 Identical with Cor. H-6 of the list survey, which is
 ✓ a malpais stone 8 x 6 x 3 ins. above ground, marked
 and witnessed as described by the Forest Service. I
 ✓ destroy all trace of this list cor.
 Deposit a granite stone 5 x 4 x 2 ins. marked with a +
 16 ins. in the ground, over which set a granite stone
 24 x 10 x 8 ins. chiseled + for the point and 2 H E S
 584 on NE. face; raise a mound of stone 3 ft. base,
 2 ft. high, NE. of cor., whence:
 A juniper 20 ins. dia., brs. S. $14^{\circ} 51' E.$,
 379 lks. dist.
 A juniper 26 ins. dia., brs. S. $50^{\circ} 21' W.$,
 187 lks. dist.
 ✓ Each blazed and scribed 2 H E S 584 + B T

✓ Thence N. $88^{\circ} 07' W.$
 Ascend 8 ft. over open gentle SE. slope.

10.09 Cor. H-7 of the list survey, which is a malpais stone
 ✓ 14 x 10 x 6 ins. above ground, marked and witnessed as
 described by the Forest Service. I destroy all trace
 ✓ of this list cor., Leave listed and enter unlisted
 ✓ land.

12.07 Top of ascent. Desc. 5 ft. gradually, over rocky NW.
 slope.

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Chains	
18.82	To Cor. No. 3. Point for cor. falls on top of a flat granite outcrop showing 6 x 5 x 1 ft. above ground. On top of outcrop I chisel + for the point and 3 H E S 584 NE. of + for Cor. No. 3 of this survey, and raise a mound of stone 3 ft. base, 2 ft. high, NE. of cor., whence: A juniper 30 ins. dia., brs. S. 40° 09' E., 128 lks. dist. An oak 6 ins. dia., brs. N. 55° 14' E., 73 lks. dist. Each blazed and scribed 3 H E S 584 + B T
	Thence N. 1° 36' W. Along rocky West slope, thru juniper and oak brush.
9.81	Begin desc. of 20 ft. over open gentle NW. slope.
14.47	Arroyo, 50 lks. wide, banks 12 ft. high, (dry) course S. 75° W. Thence along steep rocky East slope, West bank of arroyo parallels line 30 to 50 lks. dist.
18.43	Cor. H-9 of the list survey, which is a sandstone 10 x 8 x 3 ins. above ground, marked and witnessed as described by the Forest Service. I destroy all trace of this list cor. Cor. H-8 of the list survey, which is a sandstone 14 x 6 x 5 ins. above ground, marked and witnessed as described by the Forest Service, brs. S. 88° 15' E., 9.50 chs. dist. I destroy all trace of this list cor.
24.67	Begin asc. of 25 ft. over rocky SE. slope, thru juniper and heavy oak brush. Bend in west bank of arroyo is about 50 lks. dist. From NE. course is southerly parallel to claim line.
33.23	To Cor. No. 4, which is also Cor. No. 2 of H.E.S. 585. Identical with Cor. H-10 of the list survey, which is a malpais stone 15 x 8 x 6 ins. above ground, marked

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Chains 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 + 18
 ins. in the ground, over which set a sandstone 24 x 12
 x 10 ins. chiseled + for the point, 4 H E S 584 on SE.
 ✓ face, and 2 H E S 585 on N. face; raise mounds of stone
 3 ft. base, 2 ft. high, SE. and N. of cor., whence:
 A juniper 20 ins. dia., brs. N. 11° 37' E.,
 375 lks. dist.
 An oak 20 ins. dia., brs. N. 85° 15' W.,
 412 lks. dist.
 ✓ Each blazed and scribed 4 H E S 584 + B T
 An oak 12 ins. dia., brs. N. 62° 30' E.,
 114 lks. dist.
 A juniper 20 ins. dia., brs. N. 41° 30' W.,
 158 lks. dist.
 ✓ Each blazed and scribed 2 H E S 585 + B T

✓ Thence N. 88° 29' E.
 Along line 2-1 of H E S 585.
 Descend 20 ft. over rocky East slope, thru heavy oak
 brush.

5.07 Arroyo, 60 lks. wide, banks 12 ft. high, (dry) course
 South.
 Thence over open grassy mesa land.

16.29 Arroyo, 15 lks. wide, banks 2 ft. high, (dry) course
 S. 60° W.

17.35 Cor. wire fence, brs. South 2 lks. Fences bear South
 and N. 88° 29' E. along line inside of claim.
 Asc. gradually 35 ft., over gentle grassy NW. slope,
 Cultivated land to right.

40.28 ✓ To Cor. No. 5.
 Which is also Cor. No. 1 of H. E. S. 585 and Cor. No. 4

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STATE OF ARIZONA

Chains

of H. E. S. 586.

Identical with Cor. H-1 of List 3-3845 and Cor. H-8 of List 3-3853, which is a quartzite stone 10 x 8 x 3 ins. above ground, marked and witnessed as described by the Forest Service. I destroy all trace of this list cor. Deposit a granite stone 4 x 3 x 2 ins. marked with a + 18 ins. in the ground, over which set a granite stone 26 x 14 x 8 ins. chiseled + for the point and 5 H E S 584 on SW. face; 1 H E S 585 on North face, and 4 H E S 586 on SE. face, dig pits 24 x 18 x 12 ins. S. 88° 29' W., S. 0° 22' W. and S. 88° 19' E., 3 ft. dist. and raise mounds of earth and stone SW., N. and SE. of cor., whence:

A juniper 18 ins. dia., brs. N. 74° 27' W.,
534 lks. dist.

A juniper 14 ins. dia.; brs. N. 37° 14' W.,
380 lks. dist.

Each blazed and scribed 5 H E S 584 + B T

A juniper 24 ins. dia., brs. N. 55° 52' W.,
596 lks. dist.

A juniper 20 ins. dia.; brs. N. 53° 26' W.,
389 lks. dist.

Each blazed and scribed 1 H E S 585 + B T

A juniper 12 ins. dia., brs. N. 69° 01' E.,
377 lks. dist.

A juniper 28 ins. dia., brs. N. 36° 19' W.,
313 lks. dist.

Each blazed and scribed 4 H E S 586 + B T

Fence cor. brs. S. 45° W., 4 lks. dist.,

from which fences bear S. 88° 29' W., and
S. 0° 22' W. along claim lines.

Chains ✓ Thence S. 0° 22' W.

Along line 4-3 of H. E. S. 586.

Over level grassy mesa. Wire fence parallels line 3 lks. dist. inside claim. Cultivated land on West.

8.78 Wire fence, brs. E. and W. Cor. of fence brs. West, 3 lks. dist. from which fences bear N. 0° 22' E. and S. 0° 22' W. along line, and East. Cultivated land to East.

22.87 Cor. wire fence brs. West 8 lks. dist., from which fences bear N. 0° 22' E. and S. 0° 22' W. along line, and West. Leave cultivated land on West.

31.98 Wire fence brs. E. and W. Cor. of fence brs. West, 8 lks. dist., from which fences bear N. 0° 22' E. and S. 0° 22' W. along line, and East. Leave cultivated land on East.

36.21 Cor. wire fence brs. West 8 lks. dist., from which fences bear N. 0° 22' E. along line and West. Begin desc. of 15 ft. to cor., over rocky SW. slope, thru juniper and oak.

40.09 ✓ To Cor. No. 6, which is also Cor. No. 3 of H. E. S. 586. ✓ Identical with cor. H-2 of List 3-3845, and Cor. H-4 of List 3-4114, which is a sandstone 12 x 10 x 5 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 4 x 1 ins. marked with a + 16 ins. in the ground, over which set a sandstone 24 x 8 x 8 ins. chiseled + for the point, 6 H E S 584 on NW. face, and 3 H E S 586 on SE. face; raise mounds of stone 3 ft. base, 2 ft. high, NW. and SE. of cor., whence:

✓ A juniper 14 ins. dia., brs. N. 28° 10' W., 69 lks. dist.

An oak 14 ins. dia., brs. N. 73° 55' E., 162 lks. dist.

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STATE OF ARIZONA

Chains

Each blazed and scribed 6 H E S 584 ,
3 H E S 586 + B T
No other witnesses available.

Thence N. 89° 19' W.
Along line 3-2 of H. E. S. 586, across level grassy
mesa.

4.99 To Cor. No. 7, which is also Cor. No. 2 of H. E. S. 586.

Identical with Cor. H-3 of List 3-3845 which is a
sandstone 6 x 3 x 3 ins. above ground, marked and wit-
nessed as described by the Forest Service. I destroy
all trace of this list cor. Deposit a sandstone

3 x 3 x 2 ins. marked with a + 18 ins. in the ground,
on solid rock, over which set an iron post 36 ins. long,
2 ins. dia., with brass cap marked 1919 on S. rim,
7 H E S 584 in portion of circle facing claim and 2
H E S 586 in SE. quadrant, surrounded by mound of stone
4 ft. base, 18 ins. high;whence:

An oak 6 ins. dia., brs. N. 76° 50' E.,

528 lks. dist.

An oak 8 ins. dia., brs. S. 21° 07' E.,

155 lks. dist.

Each blazed and scribed 7 H E S 584 2 H E S 586

+ B T

No other witnesses available.

Thence S. 0° 24' W.

Along line 2-1 of H.E.S. 586, over level grassy mesa.

5.00 To Cor. No. 8, which is also Cor. No. 1 of H. E. S. 586.

Deposit a sandstone 3 x 2 x 1 ins. marked with a + 18
ins. in the ground, on solid rock, over which set an
iron post 36 ins. long, 2 ins. dia., with brass cap
marked 1919 on S. rim, 8' H E S 584 in NW. quadrant and

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1 H E S 586 in NE. quadrant, surrounded by a mound of stone 4 ft. base, 18 ins. high, whence:

An oak 8 ins. dia., brs. S. 42° 02' E.,
67 lks. dist.

An oak 8 ins. dia., brs. N. 27° 57' E.,
32 lks. dist.

Each blazed and scribed 8 H E S 584, 1 H E S
586 + B T

No other witnesses available.

Cor. H-4 of List 3-3845, which is a sandstone

8 x 12 x 2 ins. above ground, marked and

witnessed as described by the Forest Service,

brs. S. 0° 24' W., 7.60 chs. dist. I destroy

all trace of this list cor.

The area eliminated from this survey on the South was

in accordance with the desired of the entryman.

Thence N. 88° 21' W.

Across a level grassy mesa.

14.23 To Cor. No. 1, place of beginning.

AREA.

Listed Area, - - - - - 136.14 Acres.

Unlisted Area, - - - - - 16.79 Acres.

Total Area, - - - - - 152.93 Acres.

IMPROVEMENTS

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

A frame house 10 x 16 ft., the long sides extending NE. and SW., the N. cor. of which brs. S. 27° 25' E., 7.41 chs. dist. from

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Cor. No. 4,

Value - - - - - \$ 200.00

A pole shed, 14 x 14 ft., the long sides extending NE. and SW., the N. cor. of which
brs. S. 23° 51' E., 14.15 chs., dist. from
Cor. No. 4,

Value - - - - - \$ 50.00

Approximately 2 miles of wire fencing,

Value - - - - - \$ 250.00

DESCRIPTION

The claim is situated on a gently rolling mesa, draining to the SW. Soil is a light sandy loam, deep in spots, shallow in others, but in general it has ample depth for dry farming.

There is no water on the claim, and prospects of developing water except thru storage tanks are very unfavorable. At present water is hauled from Clark's ranch, which lies about 1-1/2 miles to the East, for domestic use.

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.

H. E. S. 585 adjoins this survey on the North. Line 2-1 thereof being identical with line 4-5 of this survey, H. E. S. 586 adjoins on the East, lines 4-3, 3-2 and 2-1 thereof being identical with lines 5-6, 6-7, and 7-8, respectively, of this survey.

Young, Arizona, the nearest settlement and postoffice, lies about 8 miles in a Southeasterly direction.

HOMESTEAD ENTRY SURVEY NO. 584

TORONTO NATIONAL FOREST

STATE OF ARIZONA

Chains

TRAVERSES

Course	Dist.	N.	S.	E.	W.
N. 5° 50' W.	9.75	9.70			.99
N. 88° 07' W.	18.82	.62			18.81
N. 1° 36' W.	33.23	33.22			.93
N. 88° 29' E.	40.28	1.07		40.27	
S. 0° 22' W.	40.09		40.09		.26
N. 89° 19' W.	4.99	.06			4.99
S. 0° 24' W.	5.00		5.00		.03
N. 88° 21' W.	14.23	.41			14.22
	<u>165.39</u>	<u>45.08</u>	<u>45.09</u>	<u>40.27</u>	<u>40.23</u>
Error in Lat. and Dep.			<u>.01</u>	<u>.04</u>	

Closing Error, 1:4036'

TIELINE FROM COR. NO 1, H.E.S. 584 to 1/4 cor. bet. SECS. 3 AND 34, TS. 9 AND 10 N., R. 13 E.

Course	Dist.	N.	S.	E.	W.
S. 88° 21' E.	14.23		.41	14.22	
S. 29° 53' E.	10.23		8.87	5.10	
S. 43° 51' E.	2.91		2.10	2.02	
S. 43° 56' E.	18.34		13.21	12.72	
S. 2° 50' W.	3.65		3.65		.18
S. 47° 12' E.	2.61		1.77	1.92	
S. 10° 03' E.	2.33		2.29	.41	
S. 35° 00' W.	3.92		3.21		2.25
S. 1° 35' E.	5.21		5.21	.14	
S. 10° 40' E.	5.86		5.76	1.08	
S. 69° 18' W.	13.40		4.74		12.54
S. 5° 37' W.	29.77		29.65		2.91
S. 25° 55' W.	3.56		3.20		1.56
S. 74° 09' W.	3.55		.97		3.42
S. 85° 41' W.	22.07		1.66		22.01
	<u>141.64</u>		<u>86.68</u>	<u>37.61</u>	<u>44.87</u>
			<u>0.00</u>		<u>37.61</u>
			<u>86.68</u>		<u>7.26</u>

Resultant Course, S. 4° 46' 52" W., 86.98 chs.

Survey completed June 11, 1919.

Frank Dyak
Surveyor - Forest Service.

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ARIZONA
STATE OF

Chains

Direct Solar Obsn. at Cor. No. 5., H. E. S. 584.

June 11, 1919.

Lat. $34^{\circ} 10' 58''$ N., Long. $110^{\circ} 59' 58''$ W., from
Special Instructions from the Surveyor General and
later verified.

Telescope Pos.	l.m.t. p.m.	Horizontal Angle	Vertical Angle
Direct +°	5h 31m 20s	$36^{\circ} 46' 30''$	$18^{\circ} 40' 30''$
Reversed +°	5h 33m 35s	$37^{\circ} 03' 30''$	$17^{\circ} 41' 30''$
Direct +°	5h 31m 45s	$37^{\circ} 16' 30''$	$18^{\circ} 34' 30''$
Reversed +°	5h 33m 10s	$36^{\circ} 33' 30''$	$17^{\circ} 46' 30''$
Means	5h 32m 27s	$36^{\circ} 55' 00''$	$18^{\circ} 10' 45''$

Corr. for Refr.

$\frac{2' 18''}{18^{\circ} 08' 27''}$

Declination $23^{\circ} 04' 26''$ N.

$$\text{Cos. } Q. = \frac{\sin. 23^{\circ} 04' 26''}{\cos. 34^{\circ} 10' 58'' \times \cos. 18^{\circ} 08' 27''} - \tan. 34^{\circ} 10' 58''$$

$$\times \tan. 18^{\circ} 08' 27''$$

$$\sin. 23^{\circ} 04' 26'' = 9.5931951$$

$$\cos. 34^{\circ} 10' 58'' = 9.9176365$$

$$\cos. 18^{\circ} 08' 27'' = 9.9778581$$

$$9.6977005 = \log. .49854$$

$$\tan. 34^{\circ} 10' 58'' = 9.8319720$$

$$\tan. 18^{\circ} 08' 27'' = 9.5153960$$

$$9.3473680 = \log. .22252$$

$$\text{Cos. } Q. = .27602$$

$$Q. = 73^{\circ} 58' 38''$$

Bearing of Reference Mark, N. $37^{\circ} 03' 38''$ W.

HOMESTEAD ENTRY SURVEY NO. 584

TONTO NATIONAL FOREST
STATE OF ARIZONA

Chains

Direct Solar Obsn. at Cor. No. 5, H.E.S. 584.

June 11, 1919.

Lat. 34° 10' 58" N., Long. 110° 59' 58" W., from
Special Instructions from the Surveyor General and
later verified. Elevation approximately 5500 ft.

Telescope	Pos. sun	l.m.t. p.m.	Horizontal Angle	Vertical Angle
Direct	+	5h 26m 10s	37° 24' 30"	19° 42' 30"
Reversed	+	5h 28m 20s	37° 42' 00"	18° 44' 30"
Direct	+	5h 26m 45s	37° 54' 30"	19° 36' 30"
Reversed	+	5h 27m 50s	37° 12' 30"	18° 51' 30"
Means		5h 27m 16s	37° 33' 22"	19° 13' 45"
			Corr. for refr.	2' 09"
				19° 11' 36"

Declination, 23° 04' 25" N.

$$\text{Cos. } Q. = \frac{\text{Sin. } 23^\circ 04' 25'' \text{ N.} - \text{tan. } 34^\circ 10' 58''}{\text{Cos. } 34^\circ 10' 58'' \times \text{cos. } 19^\circ 11' 36''}$$

$$\times \text{tan. } 19^\circ 11' 36''$$

sin. 23° 04' 25" = 9.5931902

cos. 34° 10' 58" = 9.9176365

cos. 19° 11' 36" = 9.9751627

9.7003910 = log. .50164

tan. 34° 10' 58" = 9.8319720

tan. 19° 11' 36" = 9.5417120

9.3736840 = log. .23642

Cos. Q. = .26522

Q. = 74° 37' 12"

Bearing of Reference Mark, N. 37° 03' 50" W.

- 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. 584, STATE OF ARIZONA

8-2740

CORNERS.	BEARING.	DISTANCE.	LATITUDES.		DEPARTURES.		DOUBLE M. D.	N. AREAS.	S. AREAS.
			NORTH.	SOUTH.	EAST.	WEST.			
1 - 2	N. 5-50 W.	9.75	9 70			99	40 47	392 56	
2 - 3	N. 88-07 W.	18.82	62			18 81	20 67	12 82	
3 - 4	N. 1-36 W.	33.23	33 22			93	93	30 89	
4 - 5	N. 88-29 E.	40.28	1 07		40 27	27	40 25	43 47	
5 - 6	S. 0-22 W.	40.09		40 09		26	80 22		3216 02
6 - 7	N. 89-19 W.	4.99	06			4 99	74 95	4 50	
7 - 8	S. 0-24 W.	5.00		5 00		03	69 93		349 65
8 - 1	N. 88-21 W.	14.23	41			14 22	55 68	22 83	
		166.39	45 08	45 09	40 27	40 23		507 07	3565 67
			45 09	45 08	40 25	40 25			507 07
	Error in Lat. and Dep.			01	04				20/3058 60
	Closing Error, 1:4036								152 93
									Acres <i>J.S.</i>

- DIRECTIONS.—1. Carry out calculations to two decimals only.
 2. In balancing Latitudes and Departures do not obliterate or change the original figures.
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TABLING AND CALCULATIONS OF HOMESTEAD ENTRY SURVEY NO. 584, STATE OF ARIZONA

8-2349

CORNERS.	BEARING.	DISTANCE.	LATITUDES.		DEPARTURES.		DOUBLE M. D.	N. AREAS.	S. AREAS.	
			NORTH.	SOUTH.	EAST.	WEST.				
	Traverse of Unlisted Area -		added.							
	N. 88-07 W.	8.73	29 ✓		8 73 ✓		9 75	2 83 ✓		
	N. 1-36 W.	18.43	18 42 ✓		51 ✓		51	9 39 ✓		
	S. 88-15 E.	9.50		29 ✓	9 50 ✓		9 50		2 76 ✓	
	S. 0-49 W.	18.42		18 42 ✓	26 ✓		18 74		345 19 ✓	
			18 71 ✓	18 71 ✓	9 50 ✓	9 50 ✓		12 22 ✓	347 95 ✓	
									12 22 ✓	
									20/335 73 ✓	
									16 79 ✓	Acres.
										cl. 5.

73

- DIRECTIONS.—1. Carry out calculations to two decimals only.
 2. In balancing Latitudes and Departures do not obliterate or change the original figures.
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TABLING AND CALCULATIONS OF HOMESTEAD ENTRY SURVEY NO. 584, STATE OF ARIZONA

8-2349

CORNERS.	BEARING.	DISTANCE.	LATITUDES.		DEPARTURES.		DOUBLE M. D.	N. AREAS.	S. AREAS.
			NORTH.	SOUTH.	EAST.	WEST.			
TIE LINE FROM COR. NO. 1 H.E. S. 584 TO 1/4 COR. BET. SECS. 3 and 34, TS. 9 AND 10 N., R. 13 E.									
	S. 88-21 E.	14.23		41	14 22				
	S. 29-53 E.	10.23		8 87	5 10				
	S. 43-51 E.	2.91		2 10	2 02				
	S. 43-56 E.	18.34		13 21	12 72				
	S. 2-50 W.	3.65		3 65			18		
	S. 47-12 E.	2.61		1 77	1 92				
	S. 10-03 E.	2.33		2 29	41				
	S. 35-00 W.	3.92		3 21			2 25		
	S. 1-35 E.	5.21		5 21	14				
	S. 10-40 E.	5.86		5 76	1 08				
	S. 69-18 W.	13.40		4 74			12 54		
	S. 5-37 W.	29.77		29 63			2 91		
	S. 25-55 W.	3.56		3 20			1 56		
	S. 74-09 W.	3.55		97			3 42		
	S. 85-41 W.	22.07		1 66			22 01		
		141.64		86.68	37 61		44 87		
				0.00			37 61		
				86.68			7 26		
	Resultant course, S. 4°46'52" W., 86.98 chs. <i>d.S.</i>								

(Copy)

June 14, 1919.

I, William T. Roscoe, hereby agree to the survey of my homestead, Number 584 as made on the 11th day of June, 1919, by Forest Service Surveyor Frank D. Yost, and further agree that when notified that the survey has been approved and before attempting to make final proof on my entry, I will apply for amendment of the same to conform with said survey.

The changes made by the surveyor are excluding listed land on the South and including unlisted land on the West.

Witness.

(Sgd.) Wm. T. Roscoe,
 Claimant,

APPROVAL

Office of the United States Surveyor General,

Phoenix, Arizona, May 10, 1910

The foregoing field notes of Homestead Entry Survey No.

584

executed by *Frank D. Gost, Surveyor* [Forest Service Title.]
under his special instructions, dated *March 10*, 1919, having
been critically examined, and the necessary corrections and explanations
made, the said field notes, and the surveys they describe, are hereby
approved.

Frank P. Trott
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.