U. S. DEPARTMENT OF AGRICULTURE
FOREST SERVICE

FIELD NOTES

OF
HOMESTEAD ENTRY SURVEY NO. 583

SITUATED IN THE
TOMCO NATIONAL FOREST

ADMINISTRATIVE DISTRICT NO. 3

In Section 25, unsurveyed, Township 10 N., Range 13 E.
In Section 26, unsurveyed, Township 10 N., Range 15 E.

of the
GILA AND SALT RIVER BASE & Meridian.
State of
ARIZONA

Applicant for listing: C. G. Clark,
Residence: Young, Arizona.
Application No.: 475, dated May 11, 1914
List No.: 3-3617, dated July 1, 1915

Applicant for survey: Chas. G. Clark,
Residence: Young, Arizona.
H. R. No.: 028420, dated October 30, 1915

Land Office: Phoenix, Arizona.

Survey executed by Frank D. Yost, Surveyor - Forest Service,
Under special instructions dated March 12, 1919
Survey commenced June 9, 1919
Survey completed June 10, 1919

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. 565, 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.

N. E. Brandenburg
Chairman.

N. H. Langford
Chairman.

Subscribed and sworn to before me this 6th day of August, 1919.

Surveyor - Forest Service.

OATH OF SURVEYOR

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 12, 1919, 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. 3-3417, dated July 1, 1906, for Patent, under the Act of June 11, 1906, the same to be known as Homestead Entry Survey No. 565, situated within the

unsurveyed Section 25, Township 10 N., Range 15 E., and

unsurveyed Section 26, Township 10 N., Range 15 E., 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.

Subscribed and sworn to before me this 5th day of November, 1919.

Surveyor - Forest Service.

My commission expires March 17, 1921.
Chains Applicant for listing, C. G. Clark; Application No. 475, dated May 11, 1914; List No. 2-2617, dated July 1, 1915; H.E. 028420 made in the Phoenix Land Office on October 30, 1915 by Chas. G. Clark.

Surveyed under special instructions from the Surveyor General for Arizona dated March 12, 1919 and designated as Homestead Entry Survey No. 582.

Situated in what will probably be when surveyed Secs. 25 and 26, 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 9, 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 9, 1919.

At Cor. No. 4 H. E. S. 582, 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. My watch is set for local mean time.

In. 34° 10' 49'' N., Long. 110° 57' 55'' W. from special instructions from the Surveyor General and later verified.

Telescope Sup. S.M. Angle Vertical Angle
Direct + 6h. 28m. 00s. 86°21'20" 19°21'20"
Reversed # 6h. 28m. 00s. 86 47 00 19 06 20
Direct + 6h. 28m. 40s. 87 00 20 19 20 00
Reversed + 6h. 27m. 20s. 86 20 20 18 58 20

Means 6h. 27m. 02s. 86°29'52"  19°09'52"

Bearing of reference mark is 3.18° 30' 54" E.
At the same station I again 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.

<table>
<thead>
<tr>
<th>Telescope Pos.</th>
<th>1.m.t.</th>
<th>Horizontal Angle</th>
<th>Vertical Angle</th>
</tr>
</thead>
<tbody>
<tr>
<td>Direct $+$</td>
<td>6h.32m.10s. 86°46'20&quot;</td>
<td>20°26'00&quot;</td>
<td></td>
</tr>
<tr>
<td>Reversed $+$</td>
<td>6h.34m.28s. 86 05 30</td>
<td>20 21 30</td>
<td></td>
</tr>
<tr>
<td>Direct $-$</td>
<td>6h.32m.15s. 86 15 00</td>
<td>20 34 00</td>
<td></td>
</tr>
<tr>
<td>Reversed $-$</td>
<td>6h.32m.50s. 86 25 30</td>
<td>20 14 00</td>
<td></td>
</tr>
</tbody>
</table>

The bearing of reference mark is S. 16°31'04" E.

The two observations give a mean bearing of the reference mark of S. 16°30'59" E. I accept bearing of reference mark as S. 16°31' E., and from the corresponding meridian all the courses of this survey were deflected by sustained angulation.

BOUNDARIES OF CLAIM

June 9, 1919.

Beginning at Cor. No. 1, identical with Cor. H/l of the list survey, which is a granite boulder 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 granite stone 3 x 2 x 2 ins. marked with a + 26 ins. in the ground, over which set an iron post 66 ins. long, 2 in. dia. with brass cap marked 1919 on south rim and 1 NES 593 in NW. quadrant; raise a mound of stone 3 ft. base, 2 ft. high NW. of cor., whence:

A pine 16 ins. dia. bears N. 3°40' W.

540 lks. dist.

An oak 6 ins. dia. bears N. 52°56' W.

874 lks. dist., each blazed and

Scribed 1 H E S 582 + B T.

Cor. wire fence bears N. 51° W.5 lks. dist.

Fences bear NNE and S. 89°04' W. along claim line.
Chains

The cor. of Ts. 9 and 10 N., Rs. 13 and 14 E., a sandstone 10 x 6 x 8 ins. above ground, marked and witnessed as described by the Surveyor General bears S. 21° 31' 56" E., 87.32 chs. dist. by traverse which appears at the end of these notes.

Diligent search was made to find the 1/4 sec. cor. on the south bdy. of Sec. 35, T. 10 N., R. 13 E., the cor. of Secs. 25, 26, 2 and 1, T. 9 and 10 N., R. 13 E., and the 1/4 cor. on the S. boundary of Sec. 26, T. 10 N., R. 13 E., but no trace of any of the above corners was found. This survey is therefore tied to the cor. of Ts. 9 and 10 N., Rs. 15 and 14 E.

Lat. 34° 10' 26" N., Long. 110° 57' 56" W. from instructions from the Surveyor General and later verified.

Mag. decl. at 8 a.m. 14° 40' E. Mean mag. decl. 14° 36' E.

Thence S. 89° 04' W.

Descend 20 ft. over grassy SW. slope. Wire fence 2 lks. to right and parallels line.

5.92 Cor. of fence bears N. 2 lks. Fences bear N. 89° 04' E., NE., and S. 89° 04' W. along line.

30.07 Creek 75 lks. wide, banks 3 ft. high, running water 15 lks. wide, 9 ins. deep, course SW.

Bottom of desc. Ascend 30 ft. over open SE. slope.

34.91 Top of ascent on point of ridge, bears S. Descend 30 ft. over open west slope.

41.19 Wash 50 lks. wide, banks 5 ft. high (dry), course S.

Bottom of Desc. Asc. 35 ft. over open East slope.

43.21 Top of ascent on edge of mesa.

Thence across level grassy mesa.

47.64 To Cor. No. 2.

Identical with cor. H/6 of the list survey, which is a granite boulder 12 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 granite
stone 2 x 2 x 1 ins. marked with a + 26 ins. in the
ground, over which set an iron post 26 ins. long, 2 ins.
dia. with brass cap mkd 1919 on S. rim and 2 H E S 583
in the NE quadrant; dig pits 24 x 18 x 12 ins. cross-
wise on claim lines, and raise a mound of earth 3 ft.
base 2 ft. high NE of cor. whence:

A pine 16 ins. dia. bears S. 14° 30' E.
586 lks. dist.
A pine 20 ins. dia. bears S. 50° 02' E.
674 lks. dist.
Each blazed and scribed 2 H E S 583 + B T.

June 9, 1919.

June 10, 1919.

Thence N. 0° 54' W.

Over level grassy mesa.

Cor. wire fence. Fences bear E8° and N8°.

21.01 Begin ascent of 50 ft. over steep rocky south slope thru

scrub oak.

25.57 Top of ascent. Descend 10 ft. over rocky west slope thru

heavy scrub oak.

30.02 To cor. No. 3.

Identical with cor. E/5 of the list survey, which is a
sandstone 6 x 6 x 8 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 + 24 ins. in the ground, over
which set a sandstone 24 x 14 x 8 ins. chiseled + for
the point and 3 H E S 583 on SW. face; raise a mound
of stone 3 ft. base, 2 ft. high SW. of cor., whence:

An oak 12 ins. dia. bears N. 70° 10' W.

45 lks. dist.

A pine 4 ins. dia. bears S. 11° 57' W.

170 lks. dist.

Each blazed and scribed 3 H E S 583 + B T.
Chains Thence N. 85° 16' E.
Over steep rocky west slope. Ascend 30 ft.

2.01 Top of ridge, bears NNE and SSW. Desc. 40 ft. over open East slope.

15.47 Wash 50 lks. wide, banks 2 ft. high (dry) course S.
Bottom of desc. Asc. 25 ft. over open West slope.

28.21 Top of low flat ridge bears NE. and SW., thence over level land thru scattering juniper and cedar.

31.07 Wire fence, bears S. 80° E. and N. 80° W.

32.14 Begin desc. of 20 ft. over gradual E. slope thru juniper, cedar and oak.

44.21 Road bears N. and S.

45.12 Wash 50 lks. wide, banks 3 ft. high (dry) course S.
Bottom of desc. Asc. 10 ft. over rocky West slope thru heavy oak brush.

48.36 To cor. No. 4,

Identical with cor. H/2 of the list survey, which is a granite boulder 14 x 10 x 8 ins. above ground, mkd. and witnessed as described by the Forest Service. I destroy all trace of this list cor. Deposit a granite stone 2 x 2 x 1 ins. marked with a + 18 ins. in the ground, over which set a granite stone 26 x 12 x 10 ins. chiseled + for the point and 4 H E S 583 on SW. face; raise a mound of stone 3 ft. base, 2 ft. high SW. of cor., whence:

A juniper 24 ins. dia. bears N. 52° 01' W.
60 lks. dist.

A juniper 24 ins. dia. bears N. 4° 24' E.
24 lks. dist.

Each blazed and scribed 4 H E S 583 + B T.

After careful search no evidence of cors. H/3 and H/4 of the list survey could be found.

The change as made along the north boundary of this survey is in accordance with the desires of the entryman and meets with the approval of the Forest Service and
was made in order to eliminate unnecessary corners
and to simplify the claim boundaries.
Copy of a signed statement from the claimant agreeing to
the changes made and also agreeing to amend his entry
to conform to this survey is attached at the end of
these notes.

Thence S. 0° 06' E.
Over rocky bottom land thru heavy oak and juniper.

3.97 Wash 25 lks. wide, banks 4 ft. high (dry), course S.
75° W., thence over level grassy flat.

8.41 Road bears N. 80° W. and S. 80° E.
9.02 Wire fence, bears N. 80° W. and S. 80° E. Enter cultivated land.

12.21 Wash 25 lks. wide, banks 3 ft. high (dry), course S. 75° W.
16.27 Wash 25 lks. wide, banks 5 ft. high (dry), course N. 85° W.
22.61 Wire fence bears E. and W. Leave cultivated land. Ascend
25 ft. over rocky N. slope thru heavy oak brush.

30.71 Top of ascent on small spur, bears West. Desc. 15 ft.
over rocky S. slope thru heavy brush.
24.67 Wire fence bears N. 7° E. and S. 7° W.
34.91 To cor. No. 1, the place of beginning.

June 10, 1919.

AREA

Area------------------------------------- 155.36 Acres

IMPROVEMENTS

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

A log house 20 x 22 ft. the long sides extending N. 80° W.
and S. 80° E., the NE. cor. of which bears S. 30° W.
9.55 chs. dist. from cor. No. 4.

Value--------------------------------- $350.00

A log barn 20 x 40 ft. the long sides extending N. 10° W.
and S. 10° E., the NE. cor. of which bears S. 65° 10' W.
DOMESTIC ENTRY SURVEY NO. 583
TONTO NATIONAL FOREST
STATE OF ARIZONA.

Chains 7.41 chs. dist. from Cor. No. 4.

Value $200.00.

A well 5 ft. dia. 25 ft. deep, the center of which bears S. 29° W., 9.50 chs. dist. from Cor. No. 4.

Value $100.00.

A well 8 ft. dia. 10 ft. deep, the center of which bears S.1° 01' W., 2.91 chs. dist. from Cor. No. 4.

Value $50.00.

Approximately 2-3/4 miles of fencing.

Value $450.00.

DESCRIPTION

The claim consists mainly of bottom lands, along two small draws which drain into Pine Creek. The soil in the bottom lands is a rich sandy loam, of good depth and very fertile. Approximately 70% of the area is suitable for agricultural purposes, of which about 50 acres were under cultivation at the time of survey.

The rainfall is depended upon to raise crops.

Water for domestic use is obtained from the wells.

There is no timber of commercial value on the claim.

No indications of mineral were observed on the claim.

CONFLICTS AND ADJOINING CLAIMS

There are no conflicts or adjoining claims. HES 591 lies about 1 mile dist. in a northeasterly direction. HES 586, 585 and 584 lie about 1-1/2 miles dist. in a westerly direction.

Young, Arizona, the nearest settlement and postoffice is about 8 miles dist. in a southerly direction.

<table>
<thead>
<tr>
<th>Course</th>
<th>Dist.</th>
<th>N.</th>
<th>S.</th>
<th>E.</th>
<th>W.</th>
</tr>
</thead>
<tbody>
<tr>
<td>S. 89°04' W.</td>
<td>47.64</td>
<td>.78</td>
<td>47.63</td>
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<tr>
<td>N. 0°54' W.</td>
<td>50.02</td>
<td>30.02</td>
<td>.47</td>
<td></td>
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</tr>
<tr>
<td>N. 32°16' E.</td>
<td>48.36</td>
<td>5.64</td>
<td>49.06</td>
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<tr>
<td>S. 0°56' E.</td>
<td>34.91</td>
<td>34.91</td>
<td>.06</td>
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<tr>
<td>160.99</td>
<td>35.66</td>
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<td>48.09</td>
<td>48.10</td>
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<tr>
<td>Error in Lat. and Dep.</td>
<td>.02</td>
<td>.01</td>
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</tbody>
</table>

Closing error 1:6092
Homestead Entry Survey No. 563

Tonto National Forest

State of Arizona

Chains

TIE FROM COR. NO. 1 HES 563 to COR. Ts. 9 and 10 N., Rs. 13 and 14 E.

<table>
<thead>
<tr>
<th>Course</th>
<th>Dist.</th>
<th>N.</th>
<th>S.</th>
<th>E.</th>
<th>W.</th>
</tr>
</thead>
<tbody>
<tr>
<td>S. 30° 26' E. 85.87</td>
<td>74.04</td>
<td>43.49</td>
<td>11.44</td>
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</tr>
<tr>
<td>S. 57° 51' W. 12.51</td>
<td>21.32</td>
<td>43.49</td>
<td>11.44</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Resultant course S. 21° 21' 56" E. 32.05 chs.

Survey completed June 10, 1919.

Surveyor, Forest Service
HOwESTaD ENTRy SURVEY NO. 583

TOWTC NATIONAL FOREST
STATE OF ARIZONA.

Chains

Direct solar at Cor. No. 4 H 85 582. June 9, 1919.

Lat. 34° 10' 49". Long. 110° 57' 56" W. from special
instructions from the Surveyor General and later veri-
ified.

Approximate elevation 5400 ft.

<table>
<thead>
<tr>
<th>Telescope</th>
<th>Pos.</th>
<th>l.m.t.</th>
<th>Horizontal</th>
<th>Vertical</th>
</tr>
</thead>
<tbody>
<tr>
<td>Direct</td>
<td>+</td>
<td>Ch.33m.10s. 85°46'20&quot;</td>
<td>20°26'00&quot;</td>
<td></td>
</tr>
<tr>
<td>Reversed</td>
<td>+</td>
<td>Ch.33m.25s. 86 05 20</td>
<td>20 21 50</td>
<td></td>
</tr>
<tr>
<td>Direct</td>
<td>+</td>
<td>Ch.33m.15s. 86 15 00</td>
<td>20 34 00</td>
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<tr>
<td>Reversed</td>
<td>+</td>
<td>Ch.33m.50s. 86 32 20</td>
<td>20 44 00</td>
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<tr>
<td>Means</td>
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<td>Ch.33m.25s. 85°54'28&quot;</td>
<td>20°25'52&quot;</td>
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</tr>
</tbody>
</table>

Corr. for Refr. 2'01"

Decl. 22° 52' 55" N.  

\[
\begin{align*}
\text{Cos.} \cdot \text{Sin.} & = 22°52'55" \\
\text{Cos.} \cdot 24°10'49" & = \text{tan.} 20°21'51" \\
\text{Cos.} \cdot \text{Sin.} & = \text{tan.} 20°21'51" \\
\text{tan.} 22° 52' 55" & = 9.5896640 \\
\text{tan.} 20° 21' 51" & = 9.8519313 \\
\text{Cos.} & = 9.7000425 = \text{log.} .60124 \\
\text{tan.} 20° 21' 51" & = 9.5699594 \\
\text{tan.} 20° 21' 51" & = 9.4015217 = \text{log.} .85207 \\
\text{Cos.} & = 24°17" \\
\text{Q} &= 75° 34' 18"
\end{align*}
\]

Azimuth of sun 75° 34' 18".

Angle sun to mark 65°54'38"

Bearing of Ref. Mark S. 18° 31' 04" E.

Direct solar at Cor. No. 4 H E S 582. June 9, 1919.

<table>
<thead>
<tr>
<th>Telescope</th>
<th>Pos.</th>
<th>l.m.t.</th>
<th>Horizontal</th>
<th>Vertical</th>
</tr>
</thead>
<tbody>
<tr>
<td>Direct</td>
<td>+</td>
<td>Ch.28m.00s. 86°31'20&quot;</td>
<td>19°12'30&quot;</td>
<td></td>
</tr>
<tr>
<td>Reversed</td>
<td>+</td>
<td>Ch.28m.00s. 86 47 00</td>
<td>19 08 30</td>
<td></td>
</tr>
<tr>
<td>Direct</td>
<td>+</td>
<td>Ch.28m.40s. 87 00 20</td>
<td>19 20 00</td>
<td></td>
</tr>
<tr>
<td>Reversed</td>
<td>+</td>
<td>Ch.27m.30s. 86 20 20</td>
<td>16 56 50</td>
<td></td>
</tr>
<tr>
<td>Means</td>
<td></td>
<td>Ch.27m.00s. 86°59'52&quot;</td>
<td>19°09'52&quot;</td>
<td></td>
</tr>
</tbody>
</table>

Corr. for Refr. 2'10"

Decl. 22° 52' 34".

\[
\text{Cos.} \cdot \text{Q} = \frac{\sin 22° 52' 54" \cdot \cos 24°10'49" \cdot \cos 19°07'42"}{\text{tan} 20°21'51"} \\
\text{Corr. for Refr.} = 2'10"
\]
HOMESTEAD ENTRY SURVEY NO. 583
TONTO NATIONAL FOREST
STATE OF ARIZONA.

Chains

\[
\begin{align*}
\sin 22^\circ 52' 54'' &= 0.38596591 \\
\cos 24^\circ 10' 49'' &= 0.91786488 \\
\cos 19^\circ 07' 42'' &= 0.92756829 \\
\tan 24^\circ 10' 49'' &= 9.80136212 \\
\tan 19^\circ 07' 42'' &= 9.54012229 \\
\cos Q &= 0.26134 \\
Q &= 74^\circ 49' 14''
\end{align*}
\]

Azimuth of sun 74\(^\circ\) 49\('\) 14\('"

Angle sun to mark 86\(^\circ\) 29' 52"

151\(^\circ\) 29' 06"

Bearing of Reference Mark S. 18\(^\circ\) 50' 54" E.
### TABLE OF HOMESTEAD ENTRY SURVEY NO. 565, STATE OF ARIZONA

<table>
<thead>
<tr>
<th>CORNERS</th>
<th>BEARING</th>
<th>DISTANCE</th>
<th>LATITUDES</th>
<th>DEPARTURES</th>
<th>DOUBLE M. D.</th>
<th>N. AREAS</th>
<th>S. AREAS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>NORTH</td>
<td>SOUTH</td>
<td>EAST</td>
<td>WEST</td>
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<tr>
<td>1-2</td>
<td>S. 89° 04' W.</td>
<td>47.54</td>
<td>78</td>
<td></td>
<td>47.65</td>
<td>48.57</td>
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<tr>
<td>2-3</td>
<td>N. 0 54' W.</td>
<td>20.02</td>
<td>20.03</td>
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<td>47.0</td>
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<td>14</td>
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<tr>
<td>3-4</td>
<td>N. 82 16' E.</td>
<td>48.86</td>
<td>5.64</td>
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<td>48.03</td>
<td>48.04</td>
<td>271</td>
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<tr>
<td>4-1</td>
<td>S. 0 06' E.</td>
<td>34.91</td>
<td>34.91</td>
<td>06</td>
<td>96.14</td>
<td>5355</td>
<td>29</td>
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<td>160.38</td>
<td>35.66</td>
<td>35.69</td>
<td>48.09</td>
<td>48.10</td>
</tr>
</tbody>
</table>

**Closing error 1/5092**

**Error in Lat. and Dep.**

**165.26 Acres**
June 10, 1919.

I, Chas. G. Clark, hereby agree to the survey of my homestead, Number 585 as made on 10th 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,

- eliminating two corners on the North boundary of my homestead, to simplify the lines.
- The land included and excluded is all of the same type of agricultural land.

(Sgd.) Oscar Knudson,
(Sgd.) F.M. Bragg,
Witnesses

(Sgd.) Chas. G. Clark,
Claimant
APPROVAL

Office of the United States Surveyor General,
Phoenix, Arizona, May 10, 1920

The foregoing field notes of Homestead Entry Survey No.

583

executed by [Signature]
under his special instructions, dated March 12, 1919, 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.