FIELD NOTES
OF
HOMESTEAD ENTRY SURVEY NO. 550
SITUATED IN THE SITGREAVES NATIONAL FOREST
ADMINISTRATIVE DISTRICT NO. 3

In Section 26, unsurveyed, Township 12 N., Range 17 E.
In Section 27, unsurveyed, Township 12 N., Range 17 E.
In Section 34, unsurveyed, Township 12 N., Range 17 E.
In Section 35, unsurveyed, Township 12 N., Range 17 E.

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

Applicant for listing: L. E. Gardner,
Application No.: 526, dated May 1, 1914
List No.: 3-3465, dated January 15, 1915

Applicant for survey: George E. Gardner,
H. E. No.: 033826, dated March 29, 1917
Land Office: Phoenix, Arizona.

Survey executed by Frank D. Yost, Surveyor - Forest Service.
Survey commenced July 19, 1919.
Survey completed July 20, 1919.
OATH OF ASSISTANTS

We hereby certify that we assisted
Frank D. Yost, Surveyor - Forest Service,
in surveying all those parts or portions of Homestead Entry Survey No. 550, 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.

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

Chairman

OATH OF SURVEYOR

I, Frank D. Yost, Surveyor - Forest Service, do solemnly swear that, in strict conformity with the special instructions of the United States Surveyor General for ARIZONA, dated February 15, 1910, 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. 3-3486, dated January 15, 1910, and a tract of unlisted land upon the application of L. E. Gardner.

Application No. 525, dated March 1, 1914, for Listing and Patent, under the Act of June 11, 1906, the same to be known as Homestead Entry Survey No. 550, situated within the SISKIUNAN National Forest, in un surveyed Section 26, Township 12 N., Range 17 E., and un surveyed Section 27, Township 12 N., Range 17 E., and un surveyed Section 33, Township 12 N., Range 17 E., and un surveyed Section 34, Township 12 N., Range 17 E., and 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 Fifth day of November, 1912.

Notary Public.

My commission expires March 17, 1921.
Homestead Entry Survey No. 550
Sitgreaves National Forest
State of Arizona.

Chains

Applicant for listing, L. E. Gardner; Application No. 525, dated May 1, 1914; List No. 5-3465, dated January 15, 1918; H. E. 006826, made in the Phoenix Land Office on March 29, 1917 by George E. Gardner.

Also a tract of unlisted land adjoining claimant's entry was included in the 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.

Surveyed under special instructions from the Surveyor General for Arizona dated Feb. 15, 1918, and designated as Homestead Entry Survey No. 550.

Situated in what will probably be when surveyed Secs. 26, 27, 24 and 25, 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 July 24, 1919.

Survey commenced July 19, 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.

July 19, 1919.

At Cor. H/4 of the list 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. My watch is set for local mean time.

Lat. 34° 23' 53" N. Long. 110° 31' 54" W. from special
Chains

<table>
<thead>
<tr>
<th>Telescope</th>
<th>Pos.</th>
<th>l.m.t.</th>
<th>Horizontal Angle</th>
<th>Vertical Angle</th>
</tr>
</thead>
<tbody>
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<td>Direct</td>
<td>+</td>
<td>8h. 35m. 10s. 115°06'00&quot;</td>
<td>48°17'30&quot;</td>
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<tr>
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<td>8h. 26m. 50s. 114°57'00&quot;</td>
<td>42°06'30&quot;</td>
<td></td>
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</tbody>
</table>

The bearing of reference mark is S. 27° 19' 19" W. At the same station I again observe the altitude of the sun for azimuth. The reading on the reference mark is set at zero and the sun was observed in all four quadrants of the field.

<table>
<thead>
<tr>
<th>Telescope</th>
<th>Pos.</th>
<th>l.m.t.</th>
<th>Horizontal Angle</th>
<th>Vertical Angle</th>
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</table>

The bearing of reference mark is S. 27°18'00" W. The two obsns. give a mean bearing of reference mark as S. 27° 18' 40" W. I accept bearing of reference mark as S.27° 19' W. and from the corresponding meridian all the courses of this survey were deflected by sustained angulation.

**BOUNDARIES OF CLAIM**

July 19, 1919.

Beginning at Cor. No. 1,

Identical with Cor. H. 2 of the list survey, which is a cobblestone 12 x 5 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 5 x 4 x 3 ins. marked with a + 24
ins. in the ground, over which set an iron post 2 ins. dia. 26 ins. long with brass cap marked 1919 on S. rim and 1 H E S 560 in portion of circle facing claim; raise a mound of stone 5 ft. base 2 ft. high W. of cor.

whence:

A pine 10 ins. dia. bears N. 12° 07' E.,
136 lks. dist.
A pine 10 ins. dia. bears N. 74° 56' W.,
164 lks. dist.

Each blazed and scribed 1 H E S 560 + B T.
U. S. L. M. 180 H E S (established by Forest Service Surveyor Walter G. Turley on August 4, 1914 in connection with survey of H. E. S. 180)
an embedded limestone 6 x 7 x 4 ft. above ground chiseled + and U 3 L M 180 H E S on NW face, with mound of stone 6 ft. base 4 ft.
high south of cor., bears S. 66° 42' 52" W.
128.84 chs. dist. by traverse which appears at the end of these notes.

Cor. H/3 of the list survey, which is a cobble stone 12 x 8 x 3 ins. above ground, marked and witnessed as described by the Forest Service, bears S. 27° 02' W. 13.04 chs. dist. I destroy all trace of this list cor.

(Note: The corners of this survey were set and numbered prior to running out the tie lines. It was assumed that the 1/4 cor. bet. Secs. 31 and 36, T. 12 N., Rs. 17 and 18 E. was within two miles of the claim, and the corners of this survey were set and numbered accordingly. It was found however that the 1/4 cor. was outside the prescribed limits. For this reason Cor. No. 1 is not the nearest cor. of this sur-
Homestead Entry Survey No. 550
Sitgreaves National Forest
State of Arizona

Chains to U S L M 180 H E S, and under the circumstances it is not believed that the
renumbering of the corners was warranted.)

Lat. 54° 24' 19" N. Long. 110° 31' 47" W. from special
instructions from the Surveyor General and later veri-

fied.

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

Thence S. 4° 27' W.

Over unlisted land, along rolling rocky west slope, thru
heavy oak brush and pine timber.

4.87 Wash 8 lks. wide, banks 1 ft. high (dry), course N. 60° W.
21.32 Wash 12 lks. wide, banks 1 ft. high (dry), course N. 65°
W.

41.77 Wash 10 lks. wide, banks 1 ft. high (dry) course NW.
46.21 Begin desc. of 10 ft. over SW. slope.
47.50 Bottom of desc. Thence over level bottom land.

65.62 To cor. No. 2,

Identical with Cor. 1/5 of the list survey, which is a
coastal stone 18 x 6 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 3 x 2 ins. marked with a + 28
ins. in the ground, over which set an iron post 36 ins.
long 2 ins. diam. with brass cap mid 1919 on S. rim
and E H E S 550 in portion of circle facing claim;
raise a mound of stone 3 ft. base 2 ft. high NW. of cor.
whence:

A pine 20 ins. dia. bears N. 17° 29' W.
326 lks. dist.

A pine 35 ins. dia. bears S. 67° 07' W.
410 lks. dist.

Each blazed and scribed E H E S 550 + B T.

Cor. of wire fence bears N. 26° W. 4 lks.
Chains
dist. from which fences bear NW. and N. 66° 15' W. along line.
Cor. H/4 of the list survey, which is a sandstone 14 x 6 x 14 ins. above ground, marked and witnessed as described by the Forest Service, bears N. 7° 50' W. 25.97 chs. dist. I destroy all trace of this list cor. Leave unlisted and enter listed land.

Thence N. 66° 12' W.
Over level bottom land, wire fence along line inside claim.

10.01
Pearce Wash 120 lbs. wide, banks 2 ft. high, running water 15 lbs. wide 8 ins. deep (wet weather flow only) course N.

18.52
To Cor. No. 2,
Identical with cor. H/5 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 destroy all trace of this list cor.
Deposit a sandstone 4 x 4 x 2 ins. marked with + 28 ins. in the ground, over which set a sandstone 40 x 20 x 10 ins. chiseled + for the point and 3 H E S 550 on NE face; raise a mound of stone 3 ft. base 2 ft. high NE. of cor., whence:
A pine 30 ins. dia. bears S. 47° 53' E.
155 lbs. dist.
A pine 20 ins. dia. bears S. 40° 49' W.
147 lbs. dist.
Each blazed and scribed 3 H E S 550 + B T.
Cor. of wire fence bears N. 45° W. 3 lbs. dist. from which fences bear S. 66° 15' E.
along line and W.

July 19, 1919.
Chains July 20, 1919.

Thence N. 6° 55'. W.

Over level bottom land.

.01 Wire fence, bears N. 66° 13' W. and S. 66° 18' E.

7.40 Ditch from Pearce Seep, 15 lks. wide 6 ft. deep, course N. 85° E.

9.47 To cor. No. 4,

Identical with cor. H/7 of the list survey, which is a sandstone 12 x 6 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 0 x 4 x 4 ins. marked with a + 29 ins. in the ground, over which set an iron post 35 ins. long 2 ins. dia. with brass cap m'd 1919 on S. rim and 4 H E S 550 in the E/2; raise a mound of stone 3 ft. base 2 ft. high E. of cor., whence:

A pine 16 ins. dia. bears S. 82° 58' W.

79 lks. dist.

A pine 22 ins. dia. bears N. 2° 00' W.

23 lks. dist.

Each blazed and scribed 4 H E S 550 + B T.

Cor. H/6 of the list survey, which is H &G chiseled on the face of a limestone bluff facing east, marked and witnessed as described by the Forest Service, bears N. 21° 30' E., 12.95 chs. dist. I destroy all trace of this list cor.

Leave listed and enter unlisted land.

Thence N. 1° 14'. E.,

Over rough rocky East slope thru heavy oak brush and pine timber.

.16 Wire fence, bears E. and W.
Chains
32.98 Wire fence, bears N. 12° W. and S. 12° E., thence over
level grassy flat, thru scattering pine and oak.
58.73 Wire fence, bears N. 25° E. and S. 25° W.
55.85 To Cor. No. 5.

Identical with cor. H/9 of the list survey, which is a
sandstone 14 x 8 x 4 ins. above ground, marked and
witnessed as described by the Forest Service. I de-
stroy all trace of this list cor.

Deposit a limestone 6 x 4 x 2 ins., marked with a +
17 ins. in the ground, over which set a limestone
24 x 12 x 5 ins. chiseled + for the point and
5 H E S 550 on SE. face; raise a mound of stone
3 ft. base 2 ft. high SE. of cor., whence:

A pine 15 ins. dia. bears N. 45° 05' W.
205 lks. dist.

A pine 26 ins. dia. bears N. 50° 01' E.
206 lks. dist.

Each blazed and scribed 5 H E S 550 + B T.

Cor. of wire fence bears S. 57° E. 81 lks.

from which fences bear NE. and SSW.

Leave unlisted and enter listed land.

Thence N. 66° 54' E.

Desc. 18 ft. over rocky NE. slope thru heavy scrub
oak and pine timber.

5.02 Wire fence bears N. 64° E. and S. 64° W.

7.67 Bottom of desc., thence across level bottom land, thru
pine timber.

9.31 Pierce Wash 110 lks. wide, banks 3 ft. high, running
water 15 lks. wide, 8 ins. deep (wet weather flow)
course NE.

16.60 Wire fence bears N. 80° E. and S. 80° W.

18.26 To Cor. No. 6,
Chains

Identical with Cor. H/1 of the list survey, which is a sandstone 16 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 5 x 5 x 2 ins. marked with a + 84 ins. in the ground, over which set an iron post 36 ins. long & ins. dia. with brass cap md 1919 on S. rim and 6 H E S 550 in portion of circle facing claim; raise a mound of stone 2 ft. base 2 ft. high S. of cor.
whence:
A pine 14 ins. dia. bears S.17° 25' W.
173 lks. dist.
A pine 26 ins. dia. bears S. 62° 43' E.
194 lks. dist.
Each blazed and scribed 6 H E S 550 + B T.
Cor. No. 6 of H E S 464, which is a limestone
12 x 4 x 10 ins. above ground, marked + on top and 6 H E S 464 on N. face, bears N. 85°
25' E.10.69 chs. dist by direct measurement.

Thence S. 19° 19' E.,
Over level bottom land.

.54 Wire fence bears N. 65° E. and S. 65° W.
1.71 Wire fence bears N. 4° W. and S. 4° E. Asc. 20 ft. over rocky NW. slope thru heavy brush.
15.21 To Cor. No. 1, the place of beginning.

AREA
Listed Area-----------------------------109.12 A.
Unlisted Area--------------------------37.40 A.
Total Area-----------------------------146.52 A.

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 14 x 18 ft., the long sides extending N. and S., the SW. cor. of which bears from Cor. No. 4, N. 48° 01' E., 16.91 chs. dist.
Value ___________________________ $ 200.00

A log barn 20 x 28 ft., the long sides extending N. and S., the SW. cor. of which bears from Cor. No. 4, N. 51° 30' E., 20.50 chs. dist.
Value ___________________________ $ 200.00

A well 7 ft. dia., 15 ft. deep, (equipped with double suction iron hand pump) the center of which bears from Cor. No. 4, N. 64° 00' E., 12.61 chs. dist.
Value ___________________________ $ 150.00

Approximately 2-1/2 miles of wire fencing,
Value ___________________________ $ 300.00

DESCRIPTION
The claim consists mainly of level bottom land along both sides of Pearce Wash. The soil on the bottom is a black sandy loam of good depth, very fertile. The hillsides are rocky and fit for grazing land only.

Dry farming methods are depended upon to grow crops.

Water for domestic use is obtained from the well on the claim. Approximately 70% of this claim is suitable for agricultural purposes, of which 75 acres were under cultivation at the time of this survey.

I saw no indications of mineral on the claim.

There is no timber of commercial value on the claim.

CONFLICTS AND ADJOINING CLAIMS
There are no conflicts or adjoining claims. H.E.S. 180 lies about 1-1/2 miles dist. in a southwesterly direction. H.E.S. 246 is about 1/4 mile in a southwesterly direction.
Chains

H.B.S. 464 lies about 1/8 mile dist. in a Northeasterly direction. H.B.S. 548 lies about 1/4 mile dist. in an easterly direction.

Heber, Arizona, the nearest settlement and postoffice, lies about 7-1/2 miles dist. in a Wasterly direction.

Holbrook, Arizona, the nearest railway point, is about 45 miles dist. in a Northeasterly direction and is reached by a fair wagon road.

<table>
<thead>
<tr>
<th>Course</th>
<th>Dist. N.</th>
<th>S.</th>
<th>E.</th>
<th>W.</th>
</tr>
</thead>
<tbody>
<tr>
<td>S. 4° 27' W.</td>
<td>66.52'</td>
<td>55.42</td>
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<td>N. 66° 18' W.</td>
<td>13.52'</td>
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<td>N. 6° 55' W.</td>
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<td>N. 1° 14' E.</td>
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<td>N. 6° 54' E.</td>
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<td>S. 10° 19' E.</td>
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<td>Closing Error, 1:1169.</td>
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</table>

The Prom C.O.R. No. 1 To U.S.I.M. 160 H.B.S.

| H. 76° 19' W. | 4.70 | 1.11 |
| H. 2° 00' W. | 13.24 | 13.23 |
| S. 47° 55' W. | 13.04 | 9.14 |
| S. 76° 59' W. | 7.03 | 1.94 |
| S. 77° 18' W. | 36.10 | 7.94 |
| S. 77° 20' W. | 20.00 | 5.40 |
| S. 74° 27' W. | 15.06 | 4.04 |
| S. 46° 42' W. | 8.18 | 2.91 |
| S. 45° 03' W. | 5.99 | 4.22 |
| S. 45° 09' W. | 4.05 | 2.95 |
| S. 36° 07' W. | 23.20 | 23.59 |
| S. 15° 56' W. | 7.31 | 7.03 |

15.28 57.23 10.28 50.96

Resultant course S. 66° 42' 22'' W., 188.54 chs.

Survey completed July 30, 1919.

[Signature]

Surveyor - Forest Service
Lat. 34° 23' 56" N., Long. 110° 21' 56" W., from special
instructions from the Surveyor General and later veri-
fi ed.

Elevation approximately 6100 ft.

Telescope Pos. l.m.t. Horizontal Vertical
Sun a.m. Angle Angle
Direct + 6h.35m.10.4 115°06'00" 42°17'20"
Reversed - 6h.37m.30.3 115°18'00" 42°14'30"
Direct + 6h.35m.50.4 115°42'30" 42°24'30"
Reversed + 6h.26m.00.3 114°57'00" 42°06'30"
Means 6h.36m.30.5 115°15'52" 42°15'45"

Corr. for Rec.

Decl. 20° 58' 20"

\[ \cos Q = \frac{\sin 20°58'20"}{\cos 24°22'55" \times \cos 42°14'59" - \tan 24°23'53" \times \tan 42°14'59"} \]

\[ \sin 20°58'20" = 9.552703 \]
\[ \cos 24°22'55" = 9.9165208 \]
\[ \cos 42°14'59" = 9.8692616 \]
\[ 9.7676949 = \log .59600 \]
\[ \tan 24°23'53" = 9.8354738 \]
\[ \tan 42°14'59" = 9.3952422 \]
\[ 9.7987201 = \log .62199 \]
\[ \cos Q = .03593 \]

\[ Q = 87° 56' 33" \]

Bearing of sun S. 87° 56' 23" E.
Angle sun to mark 115° 15' 52"

Bearing of Ref.

Mark, S. 27° 19' 19" W.
<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>
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<td>NORTH</td>
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<tr>
<td>1-2</td>
<td>S. 4°27' W.</td>
<td>65.62</td>
<td>65 42</td>
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<td>146.52 Acres</td>
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**TABLE AND CALCULATIONS OF HOMESTEAD ENTRY SURVEY NO. 660, STATE OF ARIZONA.**

<table>
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<tr>
<th>CORNERS</th>
<th>BEARING</th>
<th>DISTANCE</th>
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<th>LATITUDES.</th>
<th>DEPARTURES.</th>
<th>DOUBLE M. D.</th>
<th>N. AREAS</th>
<th>S. AREAS</th>
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<td>S. 27° 02' W.</td>
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<td>S. 7° 50' E.</td>
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<td>N. 66° 12' W.</td>
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<td>S. 19° 19' E.</td>
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**TRAVERS OF LISTED AREA**

<p>| | | | | | | |</p>
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<td>30.53</td>
<td>30.23</td>
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**ACRES**

20/2182 = 109.12 Acres
(Copy)

August 5, 1919.

I, Elmer Gardner, hereby agree to the survey of my homestead, Number 550, as made on 20th day of July, 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 the addition of unlisted area on the East and on the West.

(Sgd.) Elmer Gardner,

Witness

Claimant.
APPROVAL

Office of the United States Surveyor General,
Phoenix, Arizona, April 26, 1920

The foregoing field notes of Homestead Entry Survey No. 550

executed by Frank D. York, Surveyor, under his special instructions, dated February 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.

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.