FIELD NOTES
OF
HOMESTEAD ENTRY SURVEY NO. 322
SITUATED IN THE PRESCOTT NATIONAL FOREST
ADMINISTRATIVE DISTRICT NO. 3

In Section 4, unsurveyed, Township 11 N., Range 5 E.
In Section 6, unsurveyed, Township 11 N., Range 5 E.
In Section 9, unsurveyed, Township 11 N., Range 5 E.

of the
Gila and Salt River Base and Meridian.
State of
ARIZONA

Applicant for listing J. R. Alexander.
Residence Mayer, Arizona
Application No. 107, dated December 13, 1911
List No. 3-2499, dated April 24, 1913

Applicant for survey J. R. Alexander.
Residence Mayer, Arizona.
H. E. No. 023205, dated September 16, 1913
Office, Land District Phoenix, Arizona.

Survey executed by R. P. A. Johnson, Surveyor - Draftsman
Under special instructions dated February 11, 1915
Survey commenced April 14, 1915
Survey completed April 14, 1915
OATH OF ASSISTANTS

We hereby certify that we assisted R. F. A. Johnson, Surveyor - Draftsman, in surveying all those parts or portions of Homestead Entry Survey No. 322, 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.

Charles D. Hodges, Chairman

Oath of Surveyor

I, R. F. A. Johnson, Surveyor - Draftsman, do solemnly swear that, in strict conformity with the special instructions of the United States Surveyor General for Arizona, dated February 11, 1915, 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. 3-2499, dated April 24, 1913, for Patent, under the Act of June 11, 1906, the same to be known as Homestead Entry Survey No. 322, situated within the Prescott National Forest, in unsurveyed Section 4, Township 11 N., Range 5 E., and unsurveyed Section 9, Township 11 N., Range 5 E., of the G. and S. R. B. and meridian, Arizona, and the related retracements and resurveys and section subdivisions, which are represented in the following field notes as having been surveyed by me; and I further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the stated special instructions, and in the specific manner described in the field notes, and that the following are the original field notes of such survey.

Elmer C. Meyer, Chairman

Oath of Draftsman

Subscribed and sworn to before me this sixteenth day of June, 1916.
Memorandum

TO: Chief, Division of Engineering, Arizona

FROM: Chief, Branch of Title & Records, Arizona Land Office

DATE: September 9, 1966

SUBJECT: Correction of Location of HES 321, 322, 323 on Protraction Diagram No. 54

The field notes and plats for the subject surveys show that the lands involved are located in, what will be when surveyed, secs. 2, 4, 8, and 9, T. 11 N., R. 5 E. The protraction diagram shows them to be in secs. 19, 20, 21, and 22, said township and range.

Please check the above and advise this office of your findings, so that corrections may be made where appropriate and our status records will show the proper information.

C. L. Bazan

To Bazan

These HES are properly located on the protraction diagrams.
Chains

 Applicant for listing, J. R. Alexander; Application No. 107, dated December 13, 1911; List No. 3-2499, dated April 24, 1913; H. E. No. 022695, made at Phoenix, Arizona, by J. R. Alexander, dated September 16, 1913. Surveyed under special instructions from the Surveyor General for Arizona, dated February 11, 1915, and designated as Homestead Entry Survey No. 322.

Situated in unsurveyed T. 11 N., R. 5 E., in what will probably be, when surveyed, Secs. 4, 8 and 9, Gila and Salt River Base and Meridian, Prescott National Forest, Arizona.


Survey commenced April 14, 1915 and executed with a Buff and Buff transit.

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

All measurements were made on the slope with a 500 link steel tape and the slope angles determined with a clinometer.

April 14, 1915.

At 9h. 37.8m. a.m., l.m.t., I observe the altitude of the sun for azimuth at cor. No. 1. The reading is set at zero on meridian brought from H. E. S. 321, which was established by observations on Polaris April 12, 1915 and checked by direct solar observation on April 15, 1915. The sun was observed in the lower left and upper right quadrants of the field. My watch is set for local mean time. Latitude, 34° 20' N., by account from observation on H. E. S. No. 321. Longitude, 111° 52' W., from special instructions of Surveyor General.
There being no corner of the public land surveys within two miles, I run a tie from cor. No. 1, hereinafter described, as follows: N. 66° W.

To U. S. L. M. No. 321, H. E. S., in sight, which is a malpais stone 36 x 24 x 10 ins. set in edge of mound of rock 7 ft. dia., by 6 ft. high and chiseled U S L M No 321 H E S on SW. face, whence:

A cross on top rock ledge, chiseled B R - U S L M No 321 H E S, bears N. 28° 51' E., 12 lks. dist.

A juniper 18 ins. dia., scribed U S L M No 321 H E S B T, bears S. 74° 47' W., 73 lks. dist.

Cor. No. 1 H. E. S. 321 bears N. 42° 51' E., 13.74 chs. dist.

Bald Hill bears N. 25° 14' W., approximately 11 miles dist.

Horner Mountain bears N. 2° 12' W., approximately 6-1/2 miles dist.

Highest visible point of Bradshaw Mountains bears S. 76° 32' W.

Junction of Tank and Sycamore Creeks bears N. 7° 14' E., approximately 1-1/2 miles dist.

Estler Peak bears N. 63° 12' W., approximately 10-1/2 miles dist.

Junction of Dry and Sycamore Creeks bears N. 68° W., approximately 5 miles dist.

Junction of Sycamore and South fork of Sycamore Creeks bears S. 63° 40' W., approximately 1 mile dist.
Chains. No. 3. Chalk Spring bears East.

NW. cor. of J. R. Alexander's house bears 

W 1/4 of S. 32° E., approximately 1/4 mile.

Beginning at cor. No. 1. Bearing a no above A

Identical with cor. H-3 of the list survey, which is a malpais boulder 10 x 8 x 6 feet above ground, marked and witnessed as described by the Forest Service. I destroy all trace of this list cor. and mark a cross on top of same stone and 1 - H E S 322 on SE. face; and raise a mound of stone 3 ft. base, 2 ft. high, SE. of cor., from which:

A cross on malpais boulder 6 x 4 x 2 ft. above ground, chiseled B R.1 - H E S 322, bears

S. 12° 14' W., 243 lks. dist.

A cross on malpais boulder 8 x 4 x 4 ft. above ground, chiseled B R.1 H E S 322, bears

S. 70° 17' W., 85 lks. dist.

Lat. 34° 20' N., by account from cor. No. 1, H. E. S. bedrock.

Long. 111° 52' W., by account from special instruc-
tions, U. S. Mag. Va. at 9:00 a.m., 14° 45' E.

Mean mag. decl. 14° 43' E.

Descend 40 ft. in open to cor.

Thence N. 86° 25' E. a 3 X 5 ft. bedrock ledge forms a

3.10 Fence bears NE. and S W. cor. No. 2.

7.48 To cor. No. 2.

Identical with cor. H-2 of the list survey, a juniper post marked and witnessed as described by the Forest Service. I destroy all trace of this list cor. and at this point I set a porphyry stone 24 x 14 x 6 ins., 14 ins. in the ground, over a small stone marked with a cross, chiseled 2 - H E S 322 on SW. face; and raise
| Chains | a mound of stone 2 ft. base, 1-1/2 ft. high, SW. of cor.; from which: sire [Amb. 40] to [Amb. 700] NW. A juniper 12 ins. dia.; bears N. 67° 01' W., 263 lbs. dist., scribed 2 H E S 322 E T. A cross on a malpais rock 14 x 8 x 8 ins. above ground, chiseled B R. 2 H E S 322, bears S. 38° 14' E., 23 lbs. dist. singeing a tree. Corr. No. 1 H E S 321 of Benjamin J. Stewart above a spring bears N. 27° 30' E., 16.68 chs. dist. by direct measurement. To Thence S. 7° 31' W. 32° 05' N. to horom on a cedar Ascend 120 ft. in oak brush to point of hill. Top of ridge, descend 100 ft. to creek. Ridge bears E. & W. Fence bears S. 60° E. and N. 60° W. Water course 5 lbs. wide, course NW. Ascend 40 ft. in timber to cor. No. 1 H E S 321. Fence bears N. 75° E. and S. 75° W. To cor. No. 2 H E S 321. 19 lbs. dist. N. 56° W. Which is a point 3 lbs. North of cor. H-1 of the list. The survey, a 24 ins. oak marked and witnessed as described by the Forest Service. I destroy all trace of this list cor. and at the point for cor. No. 3, I set a sandstone 24 x 16 x 6 ins., 14 ins. in the ground, over a small stone marked with a cross, chiseled B R. 2 H E S 322 on NW. face; and raise a mound of stone 2 ft. base, 1-1/2 ft. high, NW. of cor. from which: sire [Amb. 700] NW. A wild cherry, 6 ins. dia., bears N. 19° 56' W., 19 lbs. dist., scribed 3 H E S 322 E T. An oak tree, 8 ins. dia., bears N. 2° 26' W., 36 lbs. dist., scribed 3 H E S 322 E T. Crystal Spring bears N. 47° 29' W., 50 lbs. dist. Thence S. 72° 56' W.

<table>
<thead>
<tr>
<th>24</th>
<th>HOMESTEAD ENTRY SURVEY NO. 322</th>
</tr>
</thead>
<tbody>
<tr>
<td>---</td>
<td>---</td>
</tr>
<tr>
<td>Prescott National Forest</td>
<td>State of Arizona State</td>
</tr>
</tbody>
</table>

| Chains | a mound of stone 2 ft. base, 1-1/2 ft. high, SW. of cor.; from which: sire [Amb. 40] to [Amb. 700] NW. A juniper 12 ins. dia.; bears N. 67° 01' W., 263 lbs. dist., scribed 2 H E S 322 E T. A cross on a malpais rock 14 x 8 x 8 ins. above ground, chiseled B R. 2 H E S 322, bears S. 38° 14' E., 23 lbs. dist. singeing a tree. Corr. No. 1 H E S 321 of Benjamin J. Stewart above a spring bears N. 27° 30' E., 16.68 chs. dist. by direct measurement. To Thence S. 7° 31' W. 32° 05' N. to horom on a cedar Ascend 120 ft. in oak brush to point of hill. Top of ridge, descend 100 ft. to creek. Ridge bears E. & W. Fence bears S. 60° E. and N. 60° W. Water course 5 lbs. wide, course NW. Ascend 40 ft. in timber to cor. No. 1 H E S 321. Fence bears N. 75° E. and S. 75° W. To cor. No. 2 H E S 321. 19 lbs. dist. N. 56° W. Which is a point 3 lbs. North of cor. H-1 of the list. The survey, a 24 ins. oak marked and witnessed as described by the Forest Service. I destroy all trace of this list cor. and at the point for cor. No. 3, I set a sandstone 24 x 16 x 6 ins., 14 ins. in the ground, over a small stone marked with a cross, chiseled B R. 2 H E S 322 on NW. face; and raise a mound of stone 2 ft. base, 1-1/2 ft. high, NW. of cor. from which: sire [Amb. 700] NW. A wild cherry, 6 ins. dia., bears N. 19° 56' W., 19 lbs. dist., scribed 3 H E S 322 E T. An oak tree, 8 ins. dia., bears N. 2° 26' W., 36 lbs. dist., scribed 3 H E S 322 E T. Crystal Spring bears N. 47° 29' W., 50 lbs. dist. Thence S. 72° 56' W. |
Chains
Ascend 50 ft. along N. slope in timber.

8.00
Top ascent; descend 160 ft. along NW. slope in timber and oak brush to cor. H-5.

26.10
To cor. No. 4. I destroy all trace of this list cor. and at this point I set a sandstone 26 x 12 x 6 ins., set 14 ins. in the ground, over a small stone marked with a cross, chiseled 4 - H E S 322 on the E. face; and raise a mound of stone 2 ft. base, 1-1/2 ft. high, sever cor., from which:

An oak, 6 ins. dia., bears N. 65° 41' W., 132 lbs. dist., scribed 4 H E S 322 B T.

An oak, 4 ins. dia., bears N. 21° 47' E., 36 lbs. dist., scribed 4 H E S 322 B T.

Thence N. 71° 30' W., x OI, ceased marking, same.

Descend 50 ft. in timber to creek. Fence on line.

1.25
Enter Crystal Spring creek, 15 lbs., wide, banks 3 ft.

3.00
Fence cor. Fence bears SW. and along line.

4.45
Leave creek, course West.

5.50
Leave fence, bears NE.

7.74
To cor. No. 5. I destroy all trace of this list cor. and at the point for cor. H-4 of the list survey, a juniper tree, marked and witnessed as described by the Forest Service. I destroy all trace of this list cor. and at the point for cor. No. 5 I set a sandstone 24 x 16 x 6 ins., 14 ins. in the ground, over a small stone marked with a cross, chiseled 5 - H E S 322 on the E. face; and raise a mound of stone 3 ft. base, 1-1/2 ft. high, E. of cor., from which:
HOMESTEAD ENTRY SURVEY NO. 322
PRESKOTT NATIONAL FOREST
STATE OF ARIZONA

Chains
A juniper 6 ins. dia., bears S. 71° 30' W., 20 lks. dist., scribed 5 H E S 322 B T 14
A juniper 6 ins. dia., bears N. 6° 20' E., 4 lks. dist., scribed 5 H E S 322 B T 15

Thence N. 51° 02' E.
Ascend 130 ft. along SE. slope in timber to cor.

14.50
Leave timber, bears SSE. and NNW.

34.54
To cor. No. 1, the place of beginning.

Main JT 3.4', eased JT 8 AREA'S To become a easer line

Total area -- -- -- -- -- -- -- -- -- -- -- 40.60 acres

T & SSE 8.5 H & IMPROVEMENTS 5.651 331

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

A tent dwelling house, 20 x 12 ft., the long side of which bears E. and W. and NE. cor. of which bears S. 1° 04' E., 12.10 chs. dist. from cor. No. 1. 38
Value ------------------------ $ 50.00

A store house, 12 x 10 ft., the long side of which bears E. and W. and NW. cor. of which bears S. 1° 00' W., 12.51 chs. dist. from cor. No. 1. 50.00
Value ------------------------ $ 50.00

A stable, 20 x 12 ft., the long side of which bears E. and W. and NE. cor. of which bears S. 7° 08' W., 14.33 chs. dist. from cor. No. 1. 100.00
Value ------------------------ $100.00

A corn crib 12 x 10 ft., the long side of which bears E. and W. and NW. cor. of which bears S. 12° 36' E., 4.50 chs. dist. from cor. No. 1. 25.00
Value ------------------------ $ 25.00
<table>
<thead>
<tr>
<th>Chains</th>
<th>A chicken house 22 x 6 ft., the long side of which bears</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>N. and S. and NW. cor. of which bears S. 48° 04' E.</strong>,</td>
</tr>
<tr>
<td></td>
<td><strong>2.90 chs. dist. from cor. No. 1.</strong></td>
</tr>
<tr>
<td></td>
<td><strong>Value - - - - - - - - - - - - - - - $10.00</strong></td>
</tr>
<tr>
<td></td>
<td><strong>There is approximately 3/4 of a mile of wire fence.</strong></td>
</tr>
<tr>
<td></td>
<td><strong>Value - - - - - - - - - - - - - - - $90.00</strong></td>
</tr>
</tbody>
</table>

**DESCRIPTION**

Situated in Crystal Spring gulch at foot of Mt. Thomas and at an elevation of 5,300 ft. General slope to SW. with NW. and SE. exposures.

Crystal Spring furnishes sufficient water for domestic use and will furnish water for the irrigation of approximately 20 acres.

There is approximately 8 acres in cultivation and orchard. A deep loam covers central portion of the tract which decreases in depth as it approaches the boundaries which are on rocky hillsides. The SE. exposure and the bottom is open on northern portion of tract. The remainder of tract is covered with oak brush and juniper of small value. The southern portion of bottom is covered with sycamore, oak, walnut, juniper and alder. I saw no indication of mineral upon this claim.

**CONFLICTS AND ADJOINING CLAUSES**

There are no conflicting or adjoining claims. H.E.S. No. 321 of Benjamin J. Stewart is approximately 16 chs. to the North.

The power line of the Arizona Power Company as constructed on the ground lies approximately 2-3/4 miles to North.

H.E.S. No. 44 is several miles to East on Houston Creek. Mayer, the nearest railroad and post office is approximately 25 miles to west, 10 miles of which is over poor wagon road.
<table>
<thead>
<tr>
<th>Chains</th>
<th>Traverse</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-2 N. 88° 25' E.</td>
<td>7.48 0.21 7.68</td>
</tr>
<tr>
<td>2-3 S. 7° 31' W.</td>
<td>17.12 16.97 2.24</td>
</tr>
<tr>
<td>3-4 S. 72° 56' W.</td>
<td>26.10 7.56 24.95</td>
</tr>
<tr>
<td>4-5 N. 71° 30' W.</td>
<td>7.74 2.46 7.54</td>
</tr>
</tbody>
</table>

Error in Lat. and Deb. .05 .04
Closing error 1.1457

Survey completed April 14, 1911.

R.C. Johnson
Surveyor & Draftman

Homestead Entry Survey No. 2822
Prescott National Forest
State of Arizona
Chains

Computation for Meridian.

Lat. 34° 20' 50". Long. 111° 52' W. Elevation 5300

Observation April 14.

Telescope Time Horizontal Vertical Angle Angle

Direct 9h. 37m. 20s. 60° 06' 30" 49° 18' 30"

Reverse 9h. 38m. 16s. 60° 42' 48° 55' 30" 42" ref. cor.

2) 9h. 37m. 36s. 120° 51' 30" 98° 14' 00"

9h. 37m. 48s. 60° 25' 45" 49° 07'

4h. 32m. 32s. True alt. 49° 05' 18"

5h. 3m. 16s.

Dec. = 9° 11' 40" N.

Cos. Q. = \frac{+ \sin, 9° 11' 40"}{\cos, 34° 20' 50" \times \cos, 49° 05' 18"} -

tan. 34° 20' 50" \times tan. 49° 05' 18"

log. sin. = 9° 11' 40" = - 9.203537

log. cos. = 34° 20' 50" = + 9.916788

log. cos. = 49° 05' 18" = + 9.816025

9.470724 = log. \cdot 29561

log. tan. = 34° 20' 50" = 9.834651

log. tan. = 49° 05' 18" = 10.062445

9.897096 = log. \cdot 78904

Cos. Q. = \frac{9.493453}{9.897096}

Q. = 60° 26' 2" N.

Bearing of object N. 0° 00' 17" W.
TABLE AND CALCULATIONS OF HOMESTEAD ENTRY SURVEY NO. 322, 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>
<td></td>
</tr>
<tr>
<td>1-2</td>
<td>N. 66° 26' E.</td>
<td>7.48</td>
<td>0.21</td>
<td>0.16</td>
<td>7.48</td>
<td>61.62</td>
<td>12.94</td>
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<tr>
<td>2-3</td>
<td>S. 7° 31' W.</td>
<td>17.12</td>
<td></td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>3-4</td>
<td>S. 72° 56' W.</td>
<td>22.10</td>
<td>7.66</td>
<td>7.34</td>
<td>24.96</td>
<td>39.64</td>
<td>302.85</td>
</tr>
<tr>
<td>4-5</td>
<td>N. 71° 30' W.</td>
<td>7.74</td>
<td>2.46</td>
<td>2.34</td>
<td>7.34</td>
<td>18.05</td>
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<tr>
<td>5-1</td>
<td>N. 61° 02' E.</td>
<td>34.84</td>
<td>21.91</td>
<td>27.09</td>
<td></td>
<td></td>
<td>592.65</td>
</tr>
</tbody>
</table>

Closing error 1:1457

201 811 99

40 599 acres
APPROVAL

Office of the United States Surveyor General,

Phoenix, Arizona, August 14, 1917

The foregoing field notes of Homestead Entry Survey No. 322

executed by R. P. A. Johnson, Surveyor-Draftsman, under his special instructions, dated February 11, 1915, 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 F. Tratt
U. S. Surveyor General.