U. S. DEPARTMENT OF AGRICULTURE
FOREST SERVICE

FIELD NOTES

OF
HOMESTAD ENTRY SURVEY NO. 414

SITUATED IN THE PROSPECT NATIONAL FOREST

ADMINISTRATIVE DISTRICT NO. 3

In Section 9, unsurveyed, Township 8 N., Range 4 E.
In Section 16, unsurveyed, Township 8 N., Range 4 E.
also
Field notes of U.S.L.M. of No. 414 N.E.S.

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

Applicant for listing W. W. Cook,
Residence Phoenix, Arizona.
Application No. 254, dated October 14, 1914
List No. 3-5618, dated July 6, 1915

Applicant for survey W. W. Cook,
Residence Phoenix, Arizona.
H. E. No. 026365, dated October 30, 1915

Land Office at Phoenix, Arizona.

Survey executed by Walter G. Harley, Surveyor Forest Service.
Under special instructions dated September 23, 1915
Survey commenced December 6, 1915
Survey completed December 7, 1915
OATH OF ASSISTANTS

We hereby certify that we assisted Walter G. Turley, Surveyor, Forest Service, in surveying all those parts or portions of Homestead Entry Survey No. 414, 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 the oath to assistants; hence it was taken by the surveyor.

 undersigned Chairman.
 undersigned Chairman.

Subscribed and sworn to before me this eleventh day of December, 1915.

Walter G. Turley, Surveyor, Forest Service.

OATH OF SURVEYOR

I, Walter G. Turley, Surveyor, Forest Service, do solemnly swear that, in strict conformity with the special instructions of the United States Surveyor General for Arizona, dated September 22, 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. 3-5615, dated July 6, 1915, for Patent, under the Act of June 11, 1906,
the same to be known as Homestead Entry Survey No. 414, situated within the Prescott National Forest, in unsurveyed Section 9, Township 8 North, Range 4 East, and unsurveyed Section 16, Township 8 North, Range 4 East,

of the Gila & Salt River Base 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.

Subscribed and sworn to before me this thirty-first day of April, 1916.

[Signature]
Notary Public

*My Commission expires Apr 30, 1919.*
Homestead Entry Survey No. 414
Prescott National Forest
State of Arizona

Chains
Applicant for listing, W. W. Cook; Application No. 864;
dated October 14, 1914; List No. 3-3618, dated July
6, 1915; Homestead Entry No. 028566, made in the
Phoenix Land Office on October 30, 1915, by W. W.
Cook whose postoffice address is Phoenix, Arizona.

Surveyed under Acts June 11, 1906 and March 4, 1915 to-
gether with special instructions from the Surveyor
General for Arizona, dated September 23, 1916 and
designated as Homestead Entry Survey No. 414.

Situated in what will probably be when surveyed secs.
9 and 10, T. 8 N., R. 4 W., G. and S. R. B. and M.
within the Prescott National Forest, Arizona.

Survey commenced December 6, 1915, and executed with a
W. & L. E. Gurley light mountain transit No. 18953
provided with prism eye piece, stadia wires, vertical
circle, and Burt solar attachment. The horizontal
limb of the transit has two double verniers placed
opposite each other and graduated to single minutes
of arc, which is also the graduation upon the ver-
niers of the latitude and declination arcs.

I test the adjustments of the transit and solar attach-
ment and make necessary corrections.

All distances are horizontal, and were reduced from
measurements made directly on the slope with a 500
link steel tape graduated to links and tenths. The
slope angles were determined with a clinometer, the
vernier of which reads to degrees.
<table>
<thead>
<tr>
<th>Date</th>
<th>Event Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>December 6, 1915</td>
<td>I set up my transit over cor. H-1 of List 3-5618 which is an imbedded basalt stone 28 x 12 x 12 ins. above ground, marked and witnessed as described by the Forest Service; and with telescope direct I observe Polaris in accordance with instructions at 5h. 30m. p.m. l.m.t. and mark the direction thus determined with a tack in a stake set firmly in the ground 5.00 chs. N. of my station in lat. 34° 03' 38&quot; N., and long. 111° 56' 47&quot; W. from special instructions of the Surveyor General. Astron. l.m.t. obsn. Dec. 5, 1915, 29h. 30.0m. Astron. l.m.t. U.C. Pol. Dec. 5, 1915, 8h. 34.8m. Hour angle Pol. at obsn. 20h. 55.2m. Time argument 20h. 56.1m. Azimuth Pol. at obsn. 0° 59' 06&quot; E.</td>
</tr>
</tbody>
</table>

With my transit set up over cor. H-1 of List 3-5618 here-tofore described and telescope reversed, in altitude and azimuth, at 5h. 42m. p.m. l.m.t. on the same date, I again observe Polaris in accordance with instructions and mark the direction thus determined with a tack in a stake set firmly in the ground 5.00 chs. N. of my station. Astron. l.m.t. obsn. Dec. 5, 1915, 29h. 42.0m. Astron. l.m.t. U.C. Pol. Dec. 5, 1915, 8h. 54.8m. Hour angle Pol. at obsn. 21h. 07.2m. Time argument 21h. 56.1m. Azimuth Pol. at obsn. 0° 56' 00" E.

December 7, 1915. I turn off 0° 59' the azimuth of Polaris to the W. from
its direction at 5h. 30m. p.m. l.m.t. December 6, 1915 and mark the line thus determined with a tack in a stake set firmly in the ground 5.00 chs. N. of my station.

I also turn off 0° 56′ the azimuth of Polaris to the W. from its direction at 5h. 42m. p.m. l.m.t. on the same date and mark the line thus determined with a tack in a stake set firmly in the ground 5.00 chs. N. of my station. This line falls 0° 00′ 18″ of measured arc to the W. of the line previously established.

I mark the mean of these two lines with a tack in a stake set firmly in the ground 5.00 chs. N. of my station; and from the corresponding meridian all the courses stated in these field notes were deflected and referred by continuous sustained angular determination.

Latitude 34° 03′ 38″ N. and longitude 111° 56′ 47″ W.
at cor. No. 1, R. R. S. No. 414 by account from the special instructions of the Surveyor General. It was cloudy at apparent noon and not possible to check the latitude by direct observation.

My watch is set for standard 105th meridian time from which I subtract 27m. 48s. for l.m.t.

Observed magnetic declination cor. No. 1 December 7, 1915 at 8h. 00m. a.m. 17° 01′ E. which reduced gives a mean magnetic declination of 17° 00′ E.

There is no corner of the public land survey or U. S. L. M. within two miles of this survey; therefore I establish U. S. L. M. No. 414 H. E. S. in accordance with instructions.

Upon the South end of the high mesa between the East
Chains

and West forks of New River, I chisel cross at the point and U S L M N 0 414 H E 3 on the south face of an imbedded basalt stone 26 x 24 x 24 ins. above ground and raise a mound of stone 6 ft. base, 4 1/2 ft. high. N. of cor. from which

A 25 in. cedar bears N. 22° 00' E., 197 lks.
blazed and scribed U S L M N 0 414 H E S + B T
N. point Skull Mesa bears S. 9° 30' E.
Red Mt. bears S. 39° 45' W.
Squaw Mt. bears N. 65° 30' W.
Confluence of Magazine Creek with New River bears S. 6° 00' W.

Thence S. 29° 00' W.

On a true line for a tie.

9.22 To cor. No. 1.

Identical with cor. H-1 and F. S. M. to List 3-3518 heretofore described. I destroy cor. H-1 and F.S.M., and for Cor. No. 1 of this survey I chisel cross at the point and 1 - H E S 414 on the SE. face of the same stone and raise a mound of stone 2 ft. base, 1 1/2 ft. high N. of cor. from which

A 14 in. cedar bears N. 65° 15' E., 120 lks.
blazed and scribed 1 H E S 414 + B T
A 9 in. cedar bears S. 2° 00' W., 165 lks.
blazed and scribed 1 H E S 414 + B T

Note: It was impracticable to place mound within claim.

Thence N. 83° 23' E.

Asc. SW. slope 20 ft. in undergrowth.

4.00 Wire fence bears N. and S.

4.50 Point of spur bears N. and S. Desc. SW. slope 40 ft.
in undergrowth.

11.25 Wire fence bears NNE. and SSW. Enter cultivated land.
Chains
12.30 Wire fence bears ESE. and WW. Enter undergrowth.
14.15 Right bank New River, 80 lks. wide, banks 2 ft. high, course S. Asc. W. slope 30 ft. in undergrowth.
17.45 To cor. No. 2.

Identical with cor. H-4 of List 3-3618 which is an imbedded basalt stone 24 x 26 x 20 ins. above ground marked and witnessed as described by the Forest Service. I destroy cor. H-4 and its witnesses and for cor. No. 2 of this survey, I chisel cross at the point and 2 - H E S 414 on the SW. face of the same stone and raise a mound of stone 2 ft. base, 1½ ft. high, E. of cor. from which A 6 in. white oak bears S. 49° 00' W., 50 lks.
blazed and scribed 2 H E S 414 + B T
A 5 in. white oak bears S. 22° 40' W., 56 lks.
blazed and scribed 2 H E S 414 + B T

Note: It was impracticable to place mound on claim.

Thence S. 15° 12' W.
Asc. along WW. slope 160 ft. in undergrowth.

17.40 Wire fence bears E. and W.
25.00 Spur bears E. and W. Desc. S. slope 160 ft.
43.73 Drift fence bears NW. and SE.
44.20 Creek bed, 40 lks. wide, banks 4 ft. high, course W.
Small stream. Asc. W. slope 10 ft. in undergrowth.

80.80 To cor. No. 3.

Identical with Cor. H-3 of List 3-3618 which is an imbedded basalt stone 20 x 15 x 15 ins. above ground marked and witnessed as described by the Forest Service. I destroy cor. H-3 and its witnesses and for Cor. No. 3 of this survey I chisel cross at the point and 3 - H E S 414 on the NW. face of the same stone and raise a mound of stone 2 ft. base, 1½ ft. high,
HOMESTEAD ENTRY SURVEY NO. 414

PRESCOTT NATIONAL FOREST

STATE OF ARIZONA

Chains

E. of cor. from which

A 4 in. black oak bears N. 11° 00' E., 165 lks.
blazed and scribed 3 H E S 414 + B T

A 9 in. black oak bears S. 87° 20' W., 140 lks.
blazed and scribed 3 H E S 414 + B T

Note: It was impracticable to place mound on claim.

Thence N. 80° 16' W.
Desc. W. slope 25 ft. in undergrowth.

1.85 Trail to Phoenix bears N. and S.

2.50 New River, 65 lks. wide, banks 3 ft. high, course S.
Small stream of water. Over bottom.

7.80 Leave bottom, bears N. and S. Asc. E. slope 20 ft.

10.88 To cor. No. 4.

Identical with cor. H-2 of List 3-3618 which is an
imbeded porphyry stone 20 x 15 x 15 ins. above
ground marked and witnessed as described by the
Forest Service. I destroy cor. H-2 and its wit-
tnesses and for cor. No. 4 of this survey I chisel
cross at the point and 4 - H E S 414 on the NE. side
of the same stone and raise a mound of stone 2 ft.
base, 1½ ft. high, NE. of cor. from which

A 6 in. cedar bears S. 34° 16' E., 136 lks.
blazed and scribed 4 H E S 414 + B T

A 12 in. cedar bears S. 47° 12' W., 138 lks.
blazed and scribed 4 H E S 414 + B T

Thence N. 11° 07' E.
Desc. 10 ft. along E. slope over open ground.

35.90 Arroyo 40 lks. wide, banks 2 ft. high, course SE.
Asc. S. slope 5 ft. in undergrowth.

40.85 Mesa point bears NW. and SE. Desc. NE. slope 5 ft.

42.00 Pole fence bears NW. and SE. Asc. SE. slope 15 ft.
Chains
56.95  Mesa point bears E. and W. Desc. N. slope 15 ft.
59.05  West York New River 50 lbs. wide, banks 3 ft. high, course SE. Asc. SW. slope 25 ft. Small stream of water.
75.56  To cor. No. 1 the place of beginning.

Area.
Total Area........................................ 106.82 acres.

Improvements.
A stone dwelling 20 x 15 ft. the long side extending NE. and SW. and the NW. cor. of which bears S. 37° 30' E., 6.28 chs. from cor. No. 1 of this survey.
Estimated value.............................. $250.00

A stone shop 26 x 15 ft., the long side extending NE. and SW. and the NW. cor. of which bears S. 7° 15' E., 6.61 chs. from cor. No. 1 of this survey.
Estimated value.............................. $ 75.00

A frame stable 22 x 16 ft., the long side extending E. and W. and the NW. cor. of which bears S. 2° 15' E., 8.78 chs. from cor. No. 1 of this survey.
Estimated value.............................. $200.00

Approximately 1 1/2 miles of fencing.
Estimated value.............................. $200.00

Approximately 7 acres of cultivated land.

Description.
This claim is situated on New River which drains south- erly into Salt River. This claim is valuable for a headquarters for stock raising.

There is no timber in this section. Sycamore grows along the creek bottom and a few scattering cedar on the slopes.
Sufficient water for all purposes flows in New River. The bottom soil is a dark loam and produces the ordinary crops of the temperate zone. Good crops of alfalfa, small grains, and fruit have been produced.

This section is not known to be mineralized and no townsites, mining, coal, or oil claims are known to have been located in the vicinity.

Phoenix postoffice and railway station is 50 miles by trail and wagon road in a southerly direction.

There are no conflicts or adjoining claims.

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**Traverse**

<table>
<thead>
<tr>
<th>Cor.</th>
<th>Course</th>
<th>Dist.</th>
<th>N.</th>
<th>S.</th>
<th>W.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-2</td>
<td>N. 85° 25' E.17.45</td>
<td>2.01</td>
<td>17.33</td>
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<tr>
<td>2-3</td>
<td>S. 15° 12' W.80.90</td>
<td>77.97</td>
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<tr>
<td>3-4</td>
<td>N. 60° 16' W.10.84</td>
<td>1.64</td>
<td>10.72</td>
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<td></td>
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<tr>
<td>4-1</td>
<td>N. 11° 07' E.75.56</td>
<td>74.14</td>
<td>14.57</td>
<td></td>
<td></td>
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</table>

Closing error 1:9234

Survey completed December 7, 1915.

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**Note:**

The listing survey reports this claim in Secs. 4 and 9, T. 8 N., R. 4 E. According to the hearings recorded in the notes of the establishment of U.S.L.M. No. 414, said monument is situated in the northern part of Sec. 9, T. 8 N., R. 4 E. Unsur, and this claim, consequently, in Secs. 9 and 16 of said township. The area of this claim as stated in the listing, 98.20 acres, is proven in error by the foregoing survey.

-\[Signature\]

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Surveyor Forest Service
<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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</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. 3° 23' E</td>
<td>17.45</td>
<td>2.01</td>
<td></td>
<td>17.23</td>
<td>46.47</td>
<td>93.40</td>
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<tr>
<td>2-3</td>
<td>S. 15° 12' W</td>
<td>80.69</td>
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<td>77.97</td>
<td>21.18</td>
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<tr>
<td>3-4</td>
<td>N. 60° 16' W</td>
<td>10.88</td>
<td>1.64</td>
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<td>10.72</td>
<td>19.72</td>
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</tr>
<tr>
<td>4-1</td>
<td>N. 11° 07' E</td>
<td>75.56</td>
<td>74.14</td>
<td></td>
<td>14.57</td>
<td>1060.07</td>
<td></td>
</tr>
</tbody>
</table>

\[ \text{Closing error, } 1:9234. \]

|          |          |          |          |            |            | 1193.19  |
|          |          |          |          |            |            |          |
|          |          |          |          |            |            | 1193.19  |
|          |          |          |          |            |            | 2130.32  |

\[ 106 \text{ 52 acres.} \]
APPROVAL

Office of the United States Surveyor General,

Phoenix, Arizona, August 14, 1917

The foregoing field notes of Homestead Entry Survey No.

414

executed by Walter C. Turley, Surveyor.

under his special instructions, dated September 23, 1915, 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.