

U. S. DEPARTMENT OF AGRICULTURE  
FOREST SERVICE

57  
JUN 26 1917  
APR 3- 1917

**FIELD NOTES**

OF

HOMESTEAD ENTRY SURVEY NO. 414

SITUATED IN THE **PRESCOTT** 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 H.E.S.

of the

**Gila and Salt River Base and Meridian.**

State of

**Arizona.**

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Applicant for listing **W. W. Cook,**  
 Residence **Phoenix, Arizona.**  
 Application No. **254** , dated **October 14** , 1914  
 List No. **3-3618** , dated **July 6** , 1915

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Applicant for survey **W. W. Cook,**  
 Residence **Phoenix, Arizona.**  
 H. E. No. **028365** , dated **October 30** , 1915

**Land Office at Phoenix, Arizona.**

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Survey executed by **Walter G. Turley, Surveyor Forest Service.**  
[Forest Service Title.]  
 Under special instructions dated **September 23** , 1915  
 Survey commenced **December 6** , 1915  
 Survey completed **December 7** , 1915  
 Under Acts of **June 11, 1906 and March 4, 1915.**

58

OATH OF ASSISTANTS

We hereby certify that we assisted **Walter G. Turley**  
**Surveyor, Forest Service.** in surveying all those  
[Forest Service Title.]

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 estab-  
lished, 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.

*Lucy Purley* Chainman.  
*Dean J. Curry* Chainman.

Subscribed and sworn to before me this *eleventh* day of  
*December*, 19*15*. *Walter G. Turley*  
*Surveyor Forest Service.*

OATH OF SURVEYOR

I, **Walter G. Turley, Surveyor, Forest Service.**  
[Forest Service Title.]

do solemnly swear that, in strict conformity with the special instruc-  
tions of the United States Surveyor General for **Arizona**, dated  
**September 23**, 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 Patent, No. **3-3618**, dated **July 6**, 1915, for  
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.

*Walter G. Turley*  
*Surveyor Forest Service*  
[Forest Service Title.]

Subscribed and sworn to before me this *8th* day of  
*April*, 19*16*

*Elaine C. Myers*  
*Notary Public*



8-2349

PRESCOTT NATIONAL FOREST

STATE OF ARIZONA

Chains Applicant for listing, W. W. Cook; Application No. 254; dated October 14, 1914; List No. 3-3618, dated July 6, 1915; Homestead Entry No. 028365, 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 together with special instructions from the Surveyor General for Arizona, dated September 23, 1915 and designated as Homestead Entry Survey No. 414. Situated in what will probably be when surveyed secs. 9 and 16, T. 8 N., R. 4 E., 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. 12953 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 verniers of the latitude and declination arcs.

I test the adjustments of the transit and solar attachment 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.

Chains December 6 1915.

I set up my transit over cor. H-1 of List 3-3618 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. 1.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.  $34^{\circ} 03' 38''$  N., and long.  $111^{\circ} 56' 47''$  W. from special instructions of the Surveyor General.

|                          |               |                           |
|--------------------------|---------------|---------------------------|
| Astron. 1.m.t. obsn.     | Dec. 5, 1915, | 29h. 30.0m.               |
| Astron. 1.m.t. U.C. Pol. | Dec. 5, 1915, | <u>8h. 34.8m.</u>         |
| Hour angle Pol. at obsn. |               | 20h. 55.2m. ✓             |
|                          |               | <u>23h. 56.1m.</u>        |
| Time argument            |               | 3h. 00.9m.                |
| Azimuth Pol. at obsn.    |               | $0^{\circ} 59' 06''$ E. ✓ |

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With my transit set up over cor. H-1 of List 3-3618 heretofore described and telescope reversed, in altitude and azimuth, at 5h. 42m. p.m. 1.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. 1.m.t. obsn.     | Dec. 5, 1915, | 29h. 42.0m.               |
| Astron. 1.m.t. U.C. Pol. | Dec. 5, 1915, | <u>8h. 34.8m.</u>         |
| Hour angle Pol. at obsn. |               | 21h. 07.2m.               |
|                          |               | <u>23h. 56.1m.</u>        |
| Time argument            |               | 2h. 48.9m.                |
| Azimuth Pol. at obsn.    |               | $0^{\circ} 56' 00''$ E. ✓ |

December 7, 1915.

I turn off  $0^{\circ} 59'$  the azimuth of Polaris to the W. from

## PRESCOTT NATIONAL FOREST

## STATE OF ARIZONA

Chains

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  $0^{\circ} 56'$  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  $0^{\circ} 00' 18''$  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 angulation.

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Latitude  $34^{\circ} 03' 38''$  N. and longitude  $111^{\circ} 56' 47''$  W. at cor. No. 1, H. E. 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.  $17^{\circ} 01'$  E. which reduced gives a mean magnetic declination of  $17^{\circ} 00'$  E.

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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 No 414 H E S on the south face of an imbedded basalt stone 36 x 24 x 24 ins. above ground and raise a mound of stone 6 ft. base, 4½ ft. high, N. of cor. from which

A 26 in. cedar bears N. 22° 00' E., 197 lks.

blazed and scribed U S L M No 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. 63° 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 3-3618

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, 1½ ft. high N. of cor. from which

A 14 in. cedar bears N. 65° 15' E., 130 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. SE. slope 40 ft. in undergrowth.

11.25 Wire fence bears NNE. and SSW. Enter cultivated land.

PRESCOTT NATIONAL FOREST

STATE OF ARIZONA

|        |  |
|--------|--|
| Chains |  |
| 12.30  | Wire fence bears ESE. and WNW. Enter undergrowth.  |
| 14.15  | Right bank New River, 80 lks. wide, banks 2 ft. high,<br>course S. Asc. W. slope 30 ft. in undergrowth.  |
| 17.45  | To cor. No. 2.<br>Identical with cor. H-4 of List 3-3618 which is an<br>imbedded basalt stone 34 x 26 x 20 ins. above ground<br>marked and witnessed as described by the Forest Ser-<br>vice. I destroy cor. H-4 and its witnesses and for<br>cor. No. 2 of this survey, I chisel cross at the<br>point and 2 - H E S 414 on the SW. face of the same<br>stone and raise a mound of stone 2 ft. base, 1½ ft.<br>high, E. of cor. from which<br>A 6 in. white oak bears S. 49° 00' W., 50 lks.<br>blazed and scribed 2 H E S 414 + B T<br>A 5 in. white oak bears S. 22° 40' E., 36 lks.<br>blazed and scribed 2 H E S 414 + B T<br>Note: It was impracticable to place mound on claim. |
|        | Thence S. 15° 12' W.<br>Asc. along WNW. slope 150 ft. in undergrowth.  |
| 17.40  | Wire fence bears E. and W.   |
| 25.00  | Spur bears E. and W. Desc. S. slope 180 ft.  |
| 43.73  | Drift fence bears NW. and SE.  |
| 44.20  | Creek bed, 40 lks. wide, banks 4 ft. high, course W.<br>Small stream. Asc. W. slope 10 ft. in undergrowth.   |
| 80.80  | To cor. No. 3.<br>Identical with Cor. H-3 of List 3-3618 which is an<br>imbedded basalt stone 20 x 15 x 15 ins. above ground<br>marked and witnessed as described by the Forest Ser-<br>vice. I destroy cor. H-3 and its witnesses and for<br>Cor. No. 3 of this survey I chisel cross at the point<br>and 3 - H E S 414 on the NW. face of the same stone<br>and raise a mound of stone 2 ft. base, 1½ ft. high,  |

|        |  |
|--------|--|
| Chains | <p>E. of cor. from which</p> <p>A 4 in. black oak bears N. 11° 00' E., 155 lks.<br/>blazed and scribed 3 H E S 414 + B T</p> <p>A 9 in. black oak bears S. 87° 20' W., 140 lks.<br/>blazed and scribed 3 H E S 414 + B T</p> <p>Note: It was impracticable to place mound on claim.</p>  |
|        | <p>Thence N. 80° 16' W.<br/>Desc. W. slope 25 ft. in undergrowth.</p>  |
| 1.85   | Trail to Phoenix bears N. and S.   |
| 2.50   | New River, 65 lks. wide, banks 3 ft. high, course S.<br>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.<br>Identical with cor. H-2 of List 3-3619 which is an imbedded 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 witnesses 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 |
|        | <p>A 6 in. cedar bears S. 34° 18' E., 136 lks.<br/>blazed and scribed 4 H E S 414 + B T</p> <p>A 12 in. cedar bears S. 47° 12' W., 138 lks.<br/>blazed and scribed 4 H E S 414 + B T</p>   |
|        | <p>Thence N. 11° 07' E.<br/>Desc. 10 ft. along E. slope over open ground.</p>  |
| 36.90  | Arroyo 40 lks. wide, banks 3 ft. high, course SE.<br>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.   |



PRESCOTT NATIONAL FOREST

STATE OF ARIZONA

Chains  
 56.95 Mesa point bears E. and W. Desc. N. slope 15 ft.  
 59.05 West fork New River 50 lks. 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..... 106.52 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., 6.81 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 1½ 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.

PRESCOTT NATIONAL FOREST

STATE OF ARIZONA

Chains

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.

Traverse.

| Cor. | Course        | Dist.  | N.    | S.    | E.    | W.    |
|------|---------------|--------|-------|-------|-------|-------|
| 1-2  | N. 83° 23' E. | 17.45  | 2.01  |       | 17.33 |       |
| 2-3  | S. 15° 12' W. | 80.80  |       | 77.97 |       | 21.18 |
| 3-4  | N. 80° 16' W. | 10.88  | 1.84  |       |       | 10.72 |
| 4-1  | N. 11° 07' E. | 75.56  | 74.14 |       | 14.57 |       |
|      |               | 184.69 | 77.99 | 77.97 | 31.90 | 31.90 |
|      |               |        | 77.97 |       | 31.90 |       |

Error in lat. and dep. .02

Closing error 1:9234

Survey completed December 7, 1915.

*Walter G. Turkey*  
Surveyor Forest Service

Note:

The listing survey reports this claim in Secs. 4 and 9, T. 8 N., R. 4 E. According to the bearings recorded in the notes of the establishment of U.S.L.M. No. 414 H.E.S. 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.

*Walter G. Turkey*  
Surveyor Forest Service



APPROVAL

Office of the United States Surveyor General,

Phoenix, Arizona, August 14 , 1917

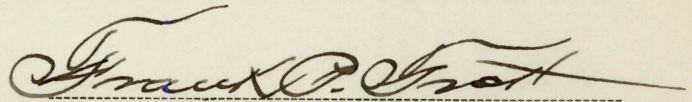
The foregoing field notes of Homestead Entry Survey No.

414

executed by Walter G. Turley, Surveyor,

[Forest Service Title.]

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.



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.