

U. S. DEPARTMENT OF AGRICULTURE  
FOREST SERVICE

AUG 27 1915 14

**FIELD NOTES**

OF

HOMESTEAD ENTRY SURVEY NO. 108

SITUATED IN THE

CROOK NATIONAL FOREST

ADMINISTRATIVE DISTRICT NO. 3

in

~~Section 11, unsurveyed, Township 1 S, Range 15 E.~~

Section 12, unsurveyed, Township 1 S, Range 15 E.

of the

G. & S. R. B. & Meridian.

Arizona

Survey executed by Walter G. Turley, Forest Service Surveyor  
Under special instructions dated October 30, 1913.  
Survey commenced December 22, 1913.  
Survey completed December 22, 1913.  
Under Acts of June 11, 1906 and March 4, 1913

Applicant for listing Zee Hayes  
Residence Globe, Arizona.  
Application No. 59, dated November 17, 1908.  
List No. 3-247, dated August 16, 1909.  
Applicant for survey Zee Hayes  
Residence Globe, Arizona.  
H. E. No. 07783, dated December 22, 1909.  
Land district Phoenix, Arizona.

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OATH OF ASSISTANTS

We hereby certify that we assisted Walter G. Turley,  
Forest Service Surveyor in surveying all those  
parts or portions of Homestead Entry Survey No. 108, in  
~~unsurveyed Section 11~~, Township 1 S., Range 15 E.,  
~~unsurveyed Section 12~~, Township 1 S., Range 15 E.,

of the G. & S.R.B. & meridian, State of Arizona, which  
are represented in the following field notes as having been  
surveyed by him and under his direction; and that said sur-  
vey 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 fur-  
nished by the United States Surveyor General for Arizona.

Note: It would have been  
very inconvenient and ex-  
pensive to appear before  
an officer to administer  
the oaths to assistants,  
hence they were taken by  
the Surveyor.

Benjamin T. Hobourn Chainman  
John B. Wight, Chainman

Subscribed and sworn to before me this 30<sup>th</sup> day of  
December, 1913

Walter G. Turley  
Forest Service Surveyor

OATH OF SURVEYOR

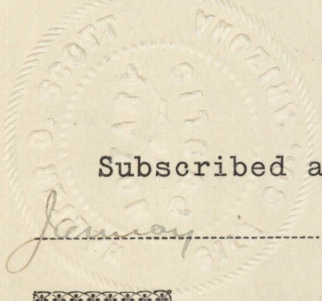
I, Walter G. Turley, Forest Service Surveyor, do solemnly swear  
that, in strict conformity with the special instructions of  
the United States Surveyor General for Arizona, dated  
October 30, 1913, and the laws of the United States, I have  
well, faithfully, and truly, in my own proper person, sur-  
veyed a tract of land ~~upon the application of~~ embraced in  
List, No. 3-247, dated August 16, 1909, for  
Patent, under the Act of June 11, 1906,  
the same to be known as Homestead Entry Survey No. 108,  
situated within the CROOK National Forest, in  
~~unsurveyed Section 11~~, Township 1 S., Range 15 E., and  
~~unsurveyed Section 12~~, Township 1 S., Range 15 E.,

of the G. & S.R.B. & 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 perpet-  
uated in strict accordance with the stated special instruc-  
tions, 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  
Forest Service Surveyor

Subscribed and sworn to before me this 19<sup>th</sup> day of  
January, 1914.

Walter G. Scott  
Notary Public



My Commission July 1, 1917

HOMESTEAD ENTRY SURVEY NO. 108

CROOK NATIONAL FOREST

ARIZONA

Chains Applicant for listing, Zee Hayes; Application No. 59, dated November 17, 1908; List No. 3-247, dated August 16, 1909; H. E. No. 07783 made at Phoenix, Arizona by Zee Hayes, dated December 22, 1909.

Surveyed under special instructions from the Surveyor General for Arizona dated October 30, 1913, and designated as Homestead Entry Survey No. 108.

Situated in unsurveyed T. 1 S., R. 15 E., G. & S. R. B. & Meridian, in what will probably be, when surveyed, Secs. 11 and 12, within the Crook National Forest, Arizona.

Listed under the Act of June 11, 1906 and survey authorized by the Acts of June 11, 1906 and March 4, 1913.

This survey was executed with a W. and L. E. Gurley light mountain transit No. 12953, with vertical circle and Burt solar attachment. The horizontal limb having two double verniers placed opposite and reading to single minutes of arc which is also the least graduation on the latitude and declination arcs.

The instrument was tested and all necessary adjustments made to the levels, line of collimation, solar attachment and stadia interval. The stadia is adjusted to read 1:132 and all measurements were made on the slope, and reduced to the horizontal, with a 400 link steel tape and a Philadelphia stadia rod graduated to feet and hundredths with target verniers reading to thousandths.

December 22, 1913.

At 8 h. 00 m. a.m., l.m.t., I set off 23° 24' S. on the decl. arc and 33° 22' on the lat. arc and determine a meridian with the solar at Cor. No. 3 of H. E. S. No.

Chains 102 and my line of sight falls upon the tack in the stake set 4.00 chs. north of my station which defines a meridian as determined by Polaris observations of December 14th and 15th, 1913. Therefore I conclude that my transit is in satisfactory adjustment.  
 Lat. 33° 22' N., Long. 110° 43' 50" W.

Preliminary to the survey of this claim I proceed to cor. No. H-1 of the list survey and retrace its boundaries in a clockwise direction, and calculate its area to be less than 160 acres.

December 22, 1913, At 8 h. 30 m. a.m., l.m.t., I set off 23° 24' S. on the decl. arc and 33° 23' on the lat. arc and determine a meridian with the solar at the St. 1/4 Sec. cor. Sec. 34, T. 1 N., R. 15-1/2 E., which is a quartzite stone 12 x 8 x 5 ins. above ground, marked and witnessed as described by the Surveyor General.

Thence S. 0° 37' W. on a true line.

117.77 To cor. No. 1. Identical with cor. H-1 of the list survey, which is a sandstone 8 x 12 x 6 ins. above ground, marked and witnessed as described by the Forest Service. I destroy all trace of this list cor. and mark 1-HES108 on the S. face of the quartzite boulder 7 x 6 x 8 ins. above ground, marked, witnessed and set for cor. No. 3 of H. E. S. No. 66, as described by the Surveyor General, from which:

- A mesquite 8 ins. dia. bears S. 1° 35' E. 90 lks. dist. marked 1 H E S 108 B T.
- A sycamore 14 ins. dia. bears S. 24° W. 145 lks. dist. marked 1 H E S 108 B T.

CROOK NATIONAL FOREST

ARIZONA

Chains Therefore the St. 1/4 Sec. Cor. Sec. 34, T. 1 N., R. 15-1/2 E., bears N. 0° 37' E., 1 mile 37.77 chs. dist. from cor. No. 1 of this survey.

I observe the magnetic declination at cor. No. 1 of this survey to be 14° 32' E. at 9 h. 30 m. a.m., l.m.t., which reduced by Table G, Manual of 1894, Diurnal Variation in Magnetic Declination, gives a mean magnetic declination of 14° 30' E.  
 Lat. 33° 21' N. Long. 110° 44' W.

Thence S. 46° 05' E. on a true line.

Ascend in bottom and undergrowth 10 ft. to cor.

9.98 To cor. No. 2. Identical with cor. H-2 of the list survey, which is a red sandstone 12 x 8 x 6 ins. above ground, marked and witnessed as described by the Forest Service. I destroy all trace of this list cor. and at this point I set a quartzite boulder 24 x 9 x 8 ins. 14 ins. in the ground over a small stone marked with a cross (+) for cor. No. 2 of this survey, marked 2-HES108 on the W. face; and raise a mound of stone 2 ft. base, 1-1/2 ft. high W. of cor. from which:

A mesquite 8 ins. dia. bears S. 71° 25' W.

133 lks. dist. marked 2 HES 108 B T

Pits impracticable. No other bearings available.

Thence S. 61° 50' W. on a true line.

Descend 5 ft. to creek.

8.38 Road, bears NW. and SE.

8.48 Pinal Creek, 92 lks. wide, banks 2 ft. high, course N.

Ascend 25 ft. to cor.

9.55 Fence, bears N. and S.

9.94 Cor. H-6 of H. E. No. 08972, J. S. Shiffen, unsurveyed

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HOMESTEAD ENTRY SURVEY NO. 108

CROOK NATIONAL FOREST

ARIZONA

Chains, H. E. S. No. 109, which is a granite boulder 8 x 8 x 12 ins. above ground, marked and witnessed as described by the Forest Service. Continue along line 6-7 of H. E. No. 08972.

18.87 To cor. No. 3.

Identical with cor. H-3 of the list survey, which is a gray granite stone 8 x 14 x 8 ins. above ground, marked and witnessed as described by the Forest Service. I destroy all trace of this list cor. and at this point I set a quartzite boulder 24 x 10 x 9 ins.

14 ins. in the ground over a small stone marked with a cross (+) for cor. No. 3 of this survey, marked 3-HES108; and raise a mound of stone 2 ft. base, 1-1/2 ft. high N. of cor. from which:

A catsclaw 4 ins. dia. bears N. 49° 45' E. 88 lks. dist. marked 3 H E S 108 B T.

No other bearings available. Pits impracticable.

Thence N. 38° 42' W. on a true line.

Ascend E. slope 50 ft. to cor.

9.25 Ravine, course E.

16.36 To cor. No. 4.

Identical with cor. H-4 of the list survey, which is a sandstone 12 x 12 x 10 ins. above ground, marked and witnessed as described by the Forest Service. I destroy all trace of this list cor. and mark 4-HES108 on

the ESE. face of the quartzite stone 11 x 11 x 8 ins. above ground, marked, witnessed and set for cor. No. 4 of H. E. S. No. 66, as described by the Surveyor

General, from which:

A mesquite 4 ins. dia. bears S. 53° E. 88 lks. dist. marked 4 H E S 108 B T.

Pits impracticable, No other bearings available.

HOMESTEAD ENTRY SURVEY NO. 108

T8 CROOK NATIONAL FOREST

AN ARIZONA

Chains 38 Thence N. 81° 11' E. along line 4-3 of H. E. S. No. 66.  
 10.64 Enter bottom, bears N. and S.  
 16.54 Fence, bears N. and S.  
 16.74 Road, bears N. and S.  
 17.95 Pinal Creek, 30 lks. wide, banks 3 ft. high, course N.  
 19.94 To cor. No. 1, the place of beginning.

The sun was obscured at noon, therefore no lat. observation was possible.

December 22, 1913.

Area of Homestead Entry Survey No. 108.

Total Area . . . . . 23.10 acres.

Improvements

The improvements made upon and for the benefit of this Homestead Entry and belonging to Zee Hayes, the entryman herein, consist of the following:

A well 35 ft. deep with windmill and pump, the center of which bears N. 53° E. 8.56 chs. dist. from cor. No. 3 of this survey. Value . . . . . \$ 200.00

A circular iron tank 8 ft. dia. 6 ft. high, the center of which bears N. 51° E. 8.65 chs. dist. from cor. No. 3. of this survey.

Value . . . . . \$ 100.00

A frame dwelling house 30 x 30 ft. the long side of which bears E. and W. and the SW. cor. of which bears N. 18° 30' E. 12.32 chs. dist. from cor. No. 3 of this survey. Value . . . . . \$ 800.00

An adobe room 12 x 14 ft. the long side of which bears E. and W. and the SW. cor. of which bears N. 15° 20' E. 12.58 chs. dist. from cor. No. 3 of this survey.

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Chains Value \$125.00

A frame wagon shed 14 x 18 ft. the long side of which bears N. and S. and the SW. cor. of which bears N. 13° 15' E. 11.52 chs. dist. from cor. No. 3 of this survey. Value \$50.00

A frame stable 30 x 40 ft. the long side of which bears N. and S. and the SW. cor. of which bears N. 14° E. 10.70 chs. dist. from cor. No. 3 of this survey. Value \$200.00

There is also some miscellaneous fencing on this claim. Value \$100.00

General Description

This homestead entry is on Pinal Creek at an elevation of approximately 3,750 ft. and is chiefly valuable for intensive farming. The soil is a sandy loam and produces any crop raised in the temperate zone.

There appears to be no mineral on this claim. The Globe post office and Arizona Eastern Railway station is 2-1/2 miles in a northerly direction.

Conflicts and Adjoining Claims.

This claim is joined on the North by H. E. S. No. 66, R. M. Anderson, and on the South by H. E. No. 08972, J. S. Sniffen, unsurveyed H. E. S. 109.

Latitudes, Departures and Closing Errors.

| Bearing       | Distance | Latitude | Departure |
|---------------|----------|----------|-----------|
|               |          | N S      | E W       |
| S. 46° 05' E. | 9.98     | 6.92     | 7.19      |
| S. 61° 50' W. | 18.87    | 8.91     | 16.64     |
| N. 38° 42' W. | 16.36    | 12.77    | 10.23     |
| N. 81° 11' E. | 19.94    | 3.06     | 19.70     |
|               | 65.15    | 15.83    | 26.89     |
|               |          | 15.83    | 26.87     |

Error in Lat. and Dep. 1.00

Closing Error 1:3258

Walter G. Purley Forest Service Surveyor.



DIRECTIONS.—1. Carry out calculations to two decimals only.  
2. In balancing Latitudes and Departures do not obliterate or change the original figures, but put below them the corrected footing in red ink.  
Put the corrected figure or figures above in red ink. Do not change the footing of the original figures, but put below them the corrected footing in red ink.  
The corrections for balancing fallings should be proportional to the lengths of the lines.  
3. In calculations of fallings take result to nearest link. In calculations of N. and S. areas drop all after second decimal. Surveyors are required to use the Standard Field Tables issued by the G. L. O.  
4. Only three copies of this tabulation are necessary, for the District Office, the Surveyor General, and the Commissioner.

TABLING AND CALCULATIONS OF HOMESTEAD ENTRY SURVEY NO. 108., STATE OF ARIZONA. Zee Hayes.

| CORNERS. | BEARING.               | DISTANCE. | LATITUDES. |        | DEPARTURES. |       | DOUBLE M. D. | N. AREAS. | S. AREAS. |
|----------|------------------------|-----------|------------|--------|-------------|-------|--------------|-----------|-----------|
|          |                        |           | NORTH.     | SOUTH. | EAST.       | WEST. |              |           |           |
|          | S. 46° 05' E.          | 9.98      |            | 6.92   | 7.19        |       | 46.57        |           | 322.26    |
|          | S. 61° 50' W.          | 18.87     |            | 8.91   |             |       | 37.11        |           | 330.65    |
|          | N. 38° 42' W.          | 16.36     | 12.77      |        |             |       | 10.23        | 130.64    |           |
|          | N. 81° 11' E.          | 19.94     | 3.06       |        | 19.70       |       | 19.69        | 60.25     |           |
|          |                        | 65.15     | 15.83      | 15.83  | 26.89       | 26.87 |              | 190.89    | 652.91    |
|          |                        |           | 15.83      |        | 26.88       | 26.88 |              |           | 190.89    |
|          | Closing Error, 1:3258. |           |            |        |             |       |              |           | 462.02    |
|          |                        |           |            |        |             |       |              |           | TR        |
|          |                        |           |            |        |             |       |              |           | TR        |

///

CLOSING BALANCE, 1-31-33

1. 81. 11. 1.  
 2. 28. 43. 4.  
 3. 01. 20. 4.  
 4. 49. 02. 1.

29.71 31.23  
 13.39 12.20  
 13.81 12.81  
 80.0 0.00

10 33 30.00  
 31 28 32.80  
 32 28 30.00

10 33 30.00  
 12 33 28.80  
 12 33 28.80

10 33 30.00  
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 12 33 28.80

495 05  
 130 83  
 365 81

COLUMNS

BEHAVING

DEBITABLE

NOVEMBER

DECEMBER

JANUARY

FEBRUARY

MARCH

APRIL

MAY

JUNE

TAKING AND CANCELLATIONS OF HOMESHELD MILK SUBV. NO. 108. STATE OF ALABAMA. See Hdres.

4. On the date of this report it is necessary for the Director to certify the balance on hand and the Commission.

5. In case of any error in the report the Director shall be held liable for the same.

6. The Commission will be responsible for the balance on hand and the Commission.

7. If there is any error in the report the Director shall be held liable for the same.

8. The Commission will be responsible for the balance on hand and the Commission.

APPROVAL

Office of the United States Surveyor General,  
Phoenix, Arizona,  
December 5, 1914 .

The foregoing field notes of Homestead Entry Survey No.

108

Zee Hayes

executed by Walter G. Turley, Forest Service Surveyor,  
under his special instructions, dated October 30, 1913,  
having been critically examined, and the necessary correc-  
tions and explanations made, the said field notes, and the  
surveys they describe, are hereby approved.

*Frank S. Ingalls*  
U. S. Surveyor General.

I certify that the foregoing transcript of the field  
notes of the above-described survey in Arizona,  
has been correctly copied from the original notes on file in  
this office.

Frank S. Ingalls,  
U. S. Surveyor General.