

SEP 19 1914

U. S. DEPARTMENT OF AGRICULTURE  
FOREST SERVICE

**FIELD NOTES**

OF

HOMESTEAD ENTRY SURVEY NO. 103

SITUATED IN THE

CROOK NATIONAL FOREST

ADMINISTRATIVE DISTRICT NO. 3

in

Section 2, unsurveyed, Township 1 S., Range 15 E.

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of the

Gila and Salt River Base and Meridian.

ARIZONA

Survey executed by Walter G. Turley, Forest Service Surveyor.

Under special instructions dated October 30, 1913

Survey commenced December 10, 1913

Survey completed December 10, 1913

Under Acts of June 11, 1906 and March 4, 1913

Applicant for listing James N. Nelson,

Residence Globe, Arizona.

Application No. 33, dated June 29, 1908

List No. 3-248, dated August 16,, 1909

Applicant for survey Burl A. Hildreth

Residence Globe, Arizona.

H. E. No. 018693, dated May 7, 1913

Land district Phoenix, Arizona.



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. 103, in  
unsurveyed Section 2, Township 1 S., Range 15 E.,  
unsurveyed Section ---, Township ---, Range ---,  
-----  
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 F. Hobourn, Chainman  
John B. Wight, Chainman  
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Subscribed and sworn to before me this 30th day of  
December, 1913.

Walter G. Turley  
Forest Service Surveyor

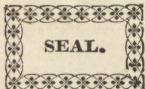
OATH OF SURVEYOR

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. 3-248, dated August 16, 1909, for  
PATENT, under the Act of June 11, 1906,  
the same to be known as Homestead Entry Survey No. 103,  
situated within the CROOK National Forest, in  
unsurveyed Section 2, Township 1 S., Range 15 E., and  
unsurveyed Section ---, Township ---, Range ---,  
-----  
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 19th day of  
January, 1914.

Walter L. Scott  
Notary Public



*My commission expires July 1, 1917*



HOMESTEAD ENTRY SURVEY NO. 103

CROOK NATIONAL FOREST

CROOK NATIONAL FOREST

ARIZONA

Chains Applicant for listing, James N. Nelson; Application No. 33, dated June 29, 1908; List No. 3-248, dated August 16, 1909; H. E. No. 018693 made by Burl A. Hildreth at Phoenix, Arizona, May 7, 1913.  
 Surveyed under Special Instructions from the Surveyor General for Arizona, dated October 30, 1913, and designated as Homestead Entry Survey No. 103.

Situated in unsurveyed T. 1 S., R. 15 E., G. & S. R. B. and Meridian in what will probably be, when surveyed, Sec. 2, 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 10, 1913:  
 At 8 h. 00 m. a.m., l.m.t., I set off  $22^{\circ} 52'$  S. on the decl. arc and  $33^{\circ} 22'$  on the lat. arc and determine a meridian with the solar at the north station of the



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meridian established by me from Polaris observations of December 4 and 5, 1913, near Cor. H-1, List 3-165, Rebecca Howard; and my line of sight falls upon the tack in the stake set 8.00 chs. south of my station. Therefore I conclude that my instrument is in satisfactory adjustment.

Preliminary to the survey of this claim I proceed to cor. 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 10, 1913:

At 8 h. 30 m. a.m., l.m.t., I set off  $22^{\circ} 52' S.$  on the decl. arc and  $33^{\circ} 22'$  on the latitude arc, and determine a meridian with the solar at cor. H-3 of the list survey, which is a quartzite boulder in place 36 x 24 x 12 ins. above ground, marked and witnessed as described by the Forest Service. I destroy all trace of the list cor. At this point I pre-

viously established cor. No. 5 of H. E. S. No. 101, E. B. Wever, by marking a cross (+) on the apex of the same boulder and 5-HES101 on the E. face, with mound of stone 2 ft. base, 1-1/2 ft. high E. of cor. I mark 1-HES103 on the SSE. face of same boulder for cor. No. 1 of this survey, from which:

- A cross (+) on an imbedded quartzite boulder  
18 x 9 x 6 ins. above ground bears  $S. 73^{\circ} 20' E.$   
79 lks. dist. marked 5 H E S 101 1 H E S 103 B R

- A cross (+) on an imbedded quartzite boulder  
36 x 36 x 16 ins. above ground bears  $N. 9^{\circ} 45' W.$   
105 lks. dist. marked 5 H E S 101 1 H E S 103 B R



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Chains I calculate the tie to the St. 1/4 Sec. Cor. Sec. 36, T. 1 N., R. 15 E., which is a granite rock 12 x 12 x 10 ins. above ground, marked and witnessed as described by the Surveyor General, by the following traverse which I previously run and is described by me in the field notes of H. E. S. No. 101.

Bearing	Distance	Latitude			Departure
		N	S	E	
S. 6° 30' E.	22.69		22.55	2.57	
S. 67° 00' W.	12.24		4.78		11.27
		0.00	27.33	2.57	11.27
			0.00		2.57
S. 17° 39' W.	28.68		27.33		8.70

Therefore the St. 1/4 Sec. Cor. Sec. 36, T. 1 N., R. 15 E., bears N. 17° 39' E. 28.68 chs. dist. from cor. No. 1 of this survey.

I observe the magnetic declination to be 14° 35' E. at 8 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° 33' 30" E. at cor. No. 1 of this survey. Long. 110° 45' W. as obtained from special instructions from the Surveyor-General.

- Thence S. 59° 11' E.
- Along line 5-4 of H. E. S. No. 101 of E. B. Wever.
- Descend SE. slope 75 ft. to creek.
- 4.00 Ravine, course E.
- 24.83 Edge of bench bears NE. and SW. Descend more abruptly.
- 25.96 Forest Service telephone line bears NE. and SW.
- 25.98 Ditch, 3 lks. wide, course N.
- 26.71 Road, bears NE. and SW.
- 27.23 Ice House Creek, 60 lks. wide, banks 2 ft. high, course NE.
- 28.33 To cor. No. 2.



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Identical with cor. H-4 of the list survey, which is a gray granite stone 8 x 8 x 5 ins. above ground, marked and witnessed as described by the Forest Service. I destroy all trace of the list cor. At this point I previously set cor. No. 4 of H. E. S. No. 101, E. B. Wever, which is a quartzite boulder 8 x 8 x 10 ins. above ground, marked 4-HES101 on N. face, with a mound of stone 2 ft. base, 1-1/2 ft. high N. of cor. I mark 2-HES103 on W. face of same boulder, from which:

A sycamore 26 ins. dia. bears N. 31° 30' W. 100 lks. dist. marked 4 H E S 101 2 H E S 103 B T

A sycamore 28 ins. dia. bears N. 26° 45' E. 97 lks. dist. marked 4 H E S 101 2 H E S 103 B T

Thence S. 51° 30' W.

Between this claim and H. E. No. 06355, Rebecca Howard, unsurveyed H. E. S. No. 129. Ascend 5 ft. to cor. in brush. To cor. No. 3.

Identical with cor. H-5 of the list survey, also cor. H-3, H.E. No. 06355, Rebecca Howard, unsurveyed H. E. S. No. 129, which is an imbedded quartzite boulder 24 x 24

x 12 ins. above ground, marked and witnessed as described by the Forest Service. I destroy all trace of this list cor. which refers to this claim; and on the NW. side of the cross (+) which I mark at the apex for this cor. I mark 3-HES103 for cor. No. 3 of this survey; and raise a mound of stone 2 ft. base, 1-1/2 ft. high NW. of cor. from which:

A sycamore 16 ins. dia. bears N. 16° 15' W. 100 lks. dist. marked 3 H E S 103 B T  
 A hackberry 4 ins. dia. bears N. 83° W. 9 lks. dist. marked 3 H E S 103 B T.



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Chains	Thence S. 31° 29' W. On a true line between this claim and H. E. No. 06355, Rebecca Howard, unsurveyed H. E. S. No. 129. Ascend 5 ft. to cor.
2.00	Forest Service telephone line, bears E. of N. and W. of S.
5.25	Fence, bears N. and S.
13.83	To cor. No. 4. Identical with cor. H-1 of the list survey, also cor. H-1, H. E. No. 018729, Thomas Halsall, unsurveyed H. E. S. No. 104, and cor. H-4, H. E. No. 06355, Rebecca Howard, unsurveyed H. E. S. No. 129, which is a gray granite stone 6 x 5 x 10 ins. above ground, marked and witnessed as described by the Forest Service. I destroy all trace of the list cor. which refers to this claim and at this point I set a quartzite boulder 28 x 9 x 9 ins. 18 ins. in the ground over a small stone marked with a cross (+) for cor. No. 4 of this survey, marked 4-HES103 on the NW. face; and raise a mound of stone 2 ft. base, 1-1/2 ft. high NW. of cor. from which: A hackberry 4 ins. dia. bears N. 11° 30' W. 83 lks. dist. marked 4 H E S 103 B T A hackberry 5 ins. dia. bears N. 63° 15' W. 114 lks. dist. marked 4 H E S 103 B T
	Thence S. 86° 00' W. On a true line between this claim and H. E. No. 018729, Thomas Halsall, unsurveyed H. E. S. No. 104, over bottom.
0.25	Road, bears NE. and SW.
0.58	Right bank of Ice House Creek, 8 ft. high, course NE.
4.05	Left bank Ice House Creek, 3 ft. high, course NE.
12.50	Ascend E. slope in undergrowth 30 ft. to cor. Arroyo, 110 lks. wide, course SE.



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17.40	Same arroyo, 120 lks. wide, course NE.	
20.00	To cor. No. 5.	
	Identical with cor. H-2 of the list survey, which is a reddish gray granite stone 12 x 6 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 stone 30 x 10 x 5 ins. 20 ins. in the ground over a small stone marked with a cross (+) for cor. No. 5 of this survey, marked 5-HES103 on the NE. face; and raise a mound of stone 2 ft. base, 1-1/2 ft. high NE. of cor. from which: An oak 5 ins. dia. bears S. 54° 10' E. 137 lks. dist. marked 5 H E S 103 B T Cor. H-6 of H. E. No. 018729, Thomas Halsall, unsurveyed H. E. S. No. 104, bears S. 86° 00' E. 4.50 chs. No other bearings available. Pits impracticable.	
	Thence N. 10° 58' E.	
9.00	Ridge bears E. and W. Descend 40 ft. to ravine.	
12.70	Ravine, course E. Ascend 30 ft. to ridge.	
22.00	Ridge bears E. and W. Descend 50 ft. to cor.	
30.45	Ravine, course E.	
30.59	To cor. No. 1 of this survey, the place of beginning.	
	Note: The sun was obscured at apparent noon, therefore a latitude observation was not possible.	
	Area of Homestead Entry Survey No. 103.	
	Total area . . . . . 53.28 acres.	



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Improvements.

The improvements made upon and for the benefit of this homestead and belonging to Burl A. Hildreth, the claimant herein, consist of the following:

An iron water tank 10 ft. dia. the center of which bears N. 81° 30' W. 6.40 chs. dist. from cor. No. 2 of this survey. Value . . . . . \$ 50.00

A frame engine house 6 x 8 ft. containing a 4-1/2 H. P. gasoline engine and pump, the long side of which bears E. and W. and the SE. cor. of which bears N. 82° 30' W. 6.20 chs. dist. from cor. No. 2 of this survey. Value . . . . . \$150.00

An adobe house 30 x 30 ft. the long side of which bears E. and W. and the SE. cor. of which bears N. 84° W. 5.50 chs. dist. from cor. No. 2 of this survey. Value . . . . . \$750.00

A brick chicken house 6 x 10 ft. the long side of which bears N. 85° W. 7.00 chs. dist. from cor. No. 2 of this survey. Value . . . . . \$ 40.00

A frame stable 12 x 24 ft. the long side of which bears E. and W. and the NE. cor. of which bears S. 88° 45' W. 7.05 chs. dist. from cor. No. 2 of this survey. Value . . . . . \$ 50.00

*Handwritten signature: Burl A. Hildreth*

A well 4 x 4 x 22 ft. deep, the center of which bears N. 83° 45' W. 8.00 chs. dist. from cor. No. 2 of this survey. Value . . . . . \$ 50.00

There is also some miscellaneous fencing and cultivation Value . . . . . \$ 50.00

General Description

This homestead entry is on Ice House Creek at an elevation of approximately 3,860 feet and is chiefly valuable for intensive farming. The soil is a sandy loam and



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produces any crop raised in the temperate zone.

I saw no indication of mineral on this claim.

Globe Postoffice and Arizona Eastern Railway station are 2 miles in a northerly direction.

This Homestead Entry is joined on the North by H. E. S. No. 101, E. B. Wever; on the East by H. E. No. 06355, Rebecca Howard, unsurveyed H. E. S. No. 129; and on the South by H. E. No. 018729, Thomas Halsall, unsurveyed H. E. S. No. 104.

Latitudes, Departures and Closing Errors.

Bearing	Distance	Latitude		Departure	
		N	S	E	W
S. 59° 11' E.	28.33		14.51	24.33	
S. 51° 30' W.	3.81		2.37		2.98
S. 31° 29' W.	13.83		11.79		7.22
S. 86° 00' W.	20.00		1.40		19.95
N. 10° 58' E.	30.59	30.03		5.82	

96.56	30.03	30.07	30.15	30.15
		30.03		30.15

Error in Lat. and Dep. .04 .00

Closing Error 1:2414.

*Walter G. Turley*  
Forest Service Surveyor.

General Description

This homestead entry is on Ice House Creek at an elevation of approximately 8,800 feet and is chiefly valuable for intensive farming. The soil is a sandy loam and



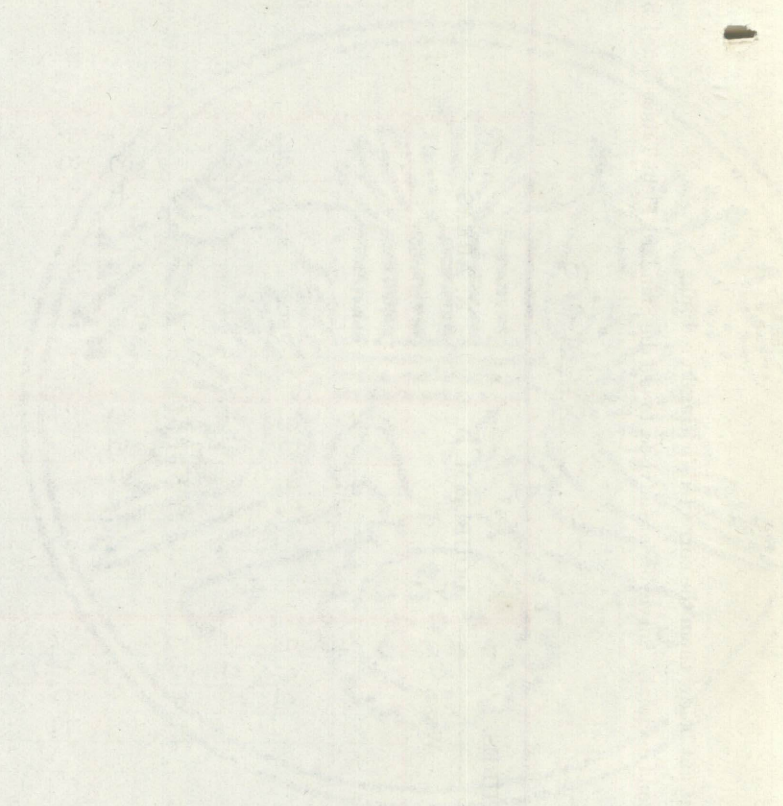
- DIRECTIONS.—1. Carry out the area in acres to three decimals, and all other calculations to two decimals only.  
 2. In balancing Lat. and Dep. do not obliterate or change the original figures: Put the corrected figure or figures above in red ink. Do not change the footing of the original figures, 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 hundredth. In calculations of N. and S. areas drop all after second decimal. Surveyors are advised to use the Standard Field Tables issued by G. L. O.

TABLING AND CALCULATIONS OF Raul A. Aldredeth 21 E & 103

No.	COURSE.	DISTANCE.	LATITUDES.		DEPARTURES.		DOUBLE M. D.	N. AREAS.	S. AREAS.
			NORTH.	SOUTH.	EAST.	WEST.			
	<del>2</del> S 59° 11' E	<del>2033</del>		1451 <sup>0</sup>	2433		3597		52157
	<del>2</del> S 51° 30' S	<del>381</del>		237 <sup>8</sup>		298	5732		13585
	<del>2</del> S 31° 29' S	<del>1383</del>		1179 <sup>39</sup>		722	4712		55507
	<del>2</del> S 86° 00' S	<del>2000</del>		140 <sup>4</sup>		1995	1995		2793
	N 10° 58' E	3059	3003 <sup>4</sup>		582		582	17489	
		9656	3003	3007	3015	3015		17489	124042
			3004	3004				17489	17489
									2) 106553
									53276 = 53.28 Acres

Closing Error = 1:2414





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128 St. George Street  
Toronto, Ontario M5S 1A5  
Canada



APPROVAL

Office of the United States Surveyor General,

Phoenix, Arizona, Dec. 10, 1914 .

The foregoing field notes of Homestead Entry Survey No.

103

Burl A. Hildreth

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.



