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U. S. DEPARTMENT OF AGRICULTURE  
FOREST SERVICE

**FIELD NOTES**

OF

HOMESTEAD ENTRY SURVEY NO. 162

SITUATED IN THE

CROOK NATIONAL FOREST

ADMINISTRATIVE DISTRICT NO. 3

in

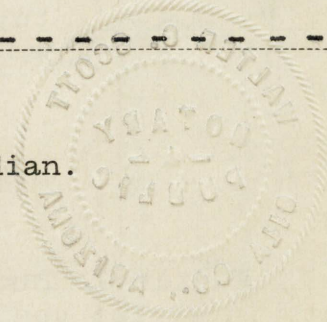
Section 1, unsurveyed, Township 1 S., Range 15 E.

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

of the

Gila and Salt River Base and Meridian.

ARIZONA



Survey executed by Walter G. Turley, Forest Service Surveyor

Under special instructions dated January 17, 1914

Survey commenced February 14, 1914

Survey completed February 14, 1914

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

Applicant for listing M. B. Morse

Residence Globe, Arizona.

Application No. 136, dated February 19, 1910

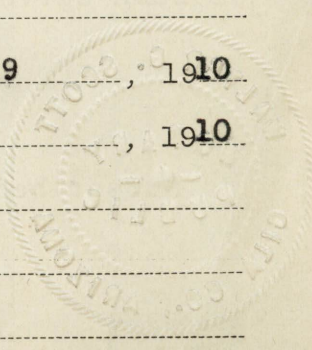
List No. 3-498, dated April 23., 1910

Applicant for survey George W. Graham

Residence Globe, Arizona.

H. E. No. 020295, dated January 31, 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. 162, in  
unsurveyed Section 1, Township 1 S., Range 15 E.,  
~~un~~surveyed Section 2, 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.

-----  
Walter G. Turley  
R. P. Johnson, Chairman  
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Subscribed and sworn to before me this 21<sup>st</sup> day of  
February, 1914

Walter G. Scott  
Notary Public

*My Commission expires July 1, 1917*

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  
January 17, 1914, 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. 3-498, dated April 23, 1910, for  
PATENT, under the Act of June 11, 1906,  
the same to be known as Homestead Entry Survey No. 162,  
situated within the CROOK National Forest, in  
unsurveyed Section 1, Township 1 S., Range 15 E., and  
~~un~~surveyed Section 2, Township 1 S., Range 15 E.,  
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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 21<sup>st</sup> day of  
February, 1914.

Walter G. Scott  
Notary Public



*My Commission expires July 1, 1917*

HOMESTEAD ENTRY SURVEY NO. 162

CROOK NATIONAL FOREST

ARIZONA

Chains

Applicant for listing, M. B. Morse; Application No. 136, dated February 19, 1910; List No. 3-498, dated April 23, 1910; H. E. No. 020295 made at Phoenix, Arizona by George W. Graham, dated January 31, 1913.

Surveyed under Special Instructions from the Surveyor General for Arizona dated January 17, 1914, and designated as Homestead Entry Survey No. 162.

Situated in what will probably be, when surveyed, Sec. -.

Section 1, T. 1 S., R. 15 E., G. and S. R. B. and Meridian 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.

Survey commenced February 14, 1914, and 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 verniers of the latitude and declination arcs.

The instrument was tested and all necessary adjustments made to the levels, line of collimation, solar attachment; and the stadia interval was adjusted to read 1:132.

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.

February 14, 1914:

At 8 h. 00 m. a.m., l.m.t., I set off 13° 07' 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, which is a granite boulder 10 x 10 x 10 ins. above ground, marked and witnessed as described by me in the field notes thereof, and my line of sight falls upon the tack in the stake set 4.00 chs. North of my station, which marks the meridian as determined by Polaris observations of December 14th and 15th, 1913. Therefore, I conclude that my transit is in satisfactory adjustment. Lat.  $33^{\circ} 22' N.$ , Long.  $110^{\circ} 43' 50'' W.$

Preliminary to the survey of this claim, I retrace the boundaries of List 3-498 and calculate its area to be less than 160 acres. I also retrace line 1-2 of H. E. S. 102.

February 14, 1914:

At 8 h. 30 m. a.m., l.m.t., I set off  $13^{\circ} 07' S.$  on the decl. arc and  $33^{\circ} 23'$  on the lat. arc and determine a meridian with the solar at the S.C. Secs. 36 and 34 T. 1 N., Rs. 15 and 15-1/2 E., which is a granite rock 10 x 8 x 8 ins. above ground, marked and witnessed as described by the Surveyor General.

Thence S.  $36^{\circ} 47' E.$  on a tie line to Cor. No. 1 of this survey, identical with cor. H-1 of the list survey, which is a quartzite stone 10 x 5 x 8 ins. above ground; marked and witnessed as described by the Forest Service. I destroy all trace of this list cor. and mark 1-HES162 on the SE. face of the same stone for cor. No. 1 of this survey, which is also marked +36-HES74 for cor. No. 6 of H. E. S. No. 74. I re-establish the mound of stone 2 ft. base, 1-1/2 ft. high NE. of cor. from which:

A hackberry 4 ins. dia. bears S.  $26^{\circ} 10' E.$  87 lks. dist. marked 1 HES 162 B.T.

A sycamore tree 24 ins. dia. bears N.  $76^{\circ} 52' E.$

HOMESTEAD ENTRY SURVEY NO. 162

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Chains	<p>261 lks. dist. marked + B T H E S 74 1 H E S 162.          Therefore the S. C. Secs. 36 and 34 T. 1 N., Rs. 15 and          15-1/2 E. bears N. 36° 47' W. 29.42 chs. dist. from cor.          No. 1 of this survey.</p>
	<p>At 9 h. 00 m. a.m., l.m.t., I observe the magnetic decli-          nation at cor. No. 1 of this survey to be 14° 30' E.          which reduced by Table G, Manual of 1894, Diurnal Varia-          tion in Magnetic Declination, gives a mean magnetic          declination of 14° 28' E.          Long. 110° 44' W., as obtained from Special Instructions          from the Surveyor General.</p>
	<p>Thence N. 87° 49' E.</p>
	<p>Along line 6-5 of approved H. E. S. No. 74, C. H. Thayer.          Descend 5 ft. to cor.</p>
0.60	Arroyo, 20 lks. wide, banks 2 ft. high, course NE.
0.76	Fence, bears N. and S.
1.50	Road, bears N. and S.
3.18	Cor. No. 2.
	<p>Identical with cor. No. 4 of H. E. S. No. 159, which is          a quartzite stone 12 x 9 x 10 ins. above ground, marked          4-HES159 on SE. face, with mound of stone 2 ft. base,          1-1/2 ft. high SE. of cor. I mark 2-HES162 on the SW.          face of same stone, from which:</p>
	<p>A sycamore 20 ins. dia. bears S. 3° 30' W. 140          lks. dist. marked 4 H E S 159 2 H E S 162 B T</p>
	<p>A sycamore 20 ins. dia. bears S. 79° 30' E. 136          lks. dist. marked 4 H E S 159 2 H E S 162 B T.</p>
	<p>Thence S. 17° 05' E.</p>
	<p>Along line 4-3 of H. E. S. No. 159. Ascend 5 ft. to cor.</p>
4.00	Left bank of Pinal Creek, 1 ft. high, course N.; Continue
	<p>in dry creek bed.</p>
5.10	Ranch road, bears NW. and SE.

4.

HOMESTEAD ENTRY SURVEY NO. 162

CROOK NATIONAL FOREST

ARIZONA

Chains

10.45 Left bank Pinal Creek, 2 ft. high, course NW.

10.55 Cor. No. 3.

Identical with cor. No. 3 of H. E. S. No. 159, which is a 60 penny wire nail driven into the NE. side of a sycamore tree 30 ins. in dia., blazed and marked 3-HES159 immediately under nail, with mound of stone 2 ft. base, 1-1/2 ft. high NW. of cor. I mark 3-HES162 in a blaze to the NW. of the nail upon the sycamore tree for cor. No. 3 of this survey, from which:

A sycamore 24 ins. dia. bears S. 8° 00' W.

127 lks. dist. marked 3 H E S 159 3 H E S 162 B T

A hackberry 6 ins. dia. bears N. 45° 45' E. 117 lks

dist. marked 3 H E S 159 3 H E S 162 B T.

Thence S. 55° 34' E.

Along line 3-2 of H. E. S. No. 159.

0.08 Left bank Pinal Creek, bank 2 ft. high, course NW. Gen-

tinue in dry bed of Pinal Creek.

3.38 Cor. No. 4.

Identical with cor. No. 2 of H. E. S. No. 159, which is an iron bolt 1 in. in dia. driven into the ground.

This cor. is witnessed by a witness cor. which I previously set 1.25 chs. N. 5° 43' W. of the true point, which is a quartzite stone 14 x 7 x 10 ins. above ground marked 2-HES159 on NW. face, with mound of stone NW. of cor. from which:

A hackberry 4 ins. dia. bears S. 89° W. 13 lks.

dist. marked 2 H E S 159 W C B T

A hackberry 6 ins. dia. bears S. 23° W. 14 lks.

dist. marked 2 H E S 159 W C B T

I also witness this point by a W.C. set 80 lks. S.

5° 43' E. from the true point.

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Chains	Note: It was impracticable to set a witness cor., within
	3 chs., on line 3-4 or projection thereof, on account of falling in Pinal Creek.
	Thence S. 5° 43' E.
	Along line 4-3 of the list survey in dry bed of Pinal
	Creek. Ascend 5 ft. to cor.
0.70	Left bank of Pinal Creek, 3 ft. high, course NW.
0.80	Set a quartzite stone 24 x 14 x 8 ins. 14 ins. in the ground over small stone marked with a cross (+) for a
	W.C. to cor. No. 4 of this survey, marked WC-4-HES162 on the SW. face; and raise a mound of stone 2 ft. base,
	1-1/2 ft. high SW. of cor. from which:
	A mesquite 5 ins. dia. bears N. 32° 25' W. 23 lks. dist. marked 4 H E S 162 W C B T
	A sycamore 14 ins. dia. bears N. 25° 50' W., 190 lks. dist. marked 4 H E S 162 W C B T.
1.30	Road bears NW. and SE.
1.60	Fence, bears NW. and SE. Enter pasture.
1.90	Fence, bears E. and W. Continue in pasture.
2.48	Cor. H-3 of the list survey, which is a quartzite stone 8 x 5 x 8 ins. above ground, marked and witnessed as
	described by the Forest Service. I destroy all trace of this list cor.
2.53	Cor. No. 5 of this survey, at which point I intersect the line 1-2 of H. E. S. No. 102, at a point 8.97 chs. S.
	78° 56'E. from cor. No. 1 and 11.90 chs. N. 78° 56' W. from cor. No. 2. At which point I set a schist stone
	24 x 14 x 6 ins. 14 ins. in the ground over a small stone marked with a cross (+) for cor. No. 5 of this
	survey, marked 5-HES162 on the NW. face; and raise a mound of stone 2 ft. base, 1-1/2 ft. high NW. of cor.
	from which:

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Chains  
 A mesquite 4 ins. dia. bears N. 69° 30' W. 61 lks.  
 dist. marked 5 H E S 162 B T  
 A cross (+) on an imbedded schist stone 28 x 12  
 x 12 ins. above ground, bears S. 54° 40' W. 16  
 lks. dist. marked 5 H E S 162 B R.

Thence N. 78° 56' W.

Along line 2-1 of H. E. S. No. 102. Ascend 30 ft. to spur.

1.61 Fence, bears E. and W.

5.47 Ranch road, bears N. and S.

7.06 Enter adobe residence of George W. Graham at a point 4 ft. SW. of E. cor. and 29 ft. NE. of S. cor.

7.59 Leave house at a point 1/2 ft. SE. of W. cor. and 35.5 ft. NW. of S. cor.

7.97 Spur bears N. and S. Descend 5 ft. to cor.

8.95 Fence, bears NE. and SW.

8.97 Cor. No. 6.

Identical with cor. H-2 of the list survey, also cor. H-2 of H.E. No. 023562, T. J. Gibson, which is a red sandstone 6 x 4 x 6 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.

At this point I previously set cor. No. 1 of H. E. S. No. 102, which is a quartzite boulder 9 x 8 x 10 ins. above ground, marked 1-HES102 on the SE. face, with mound of stone 2 ft. base, 1-1/2 ft. high SE. of cor. from which:

A cross (+) on an imbedded quartzite boulder 60 x 48 x 15 ins. above ground bears S. 69° W. 114 lks. dist. marked 1 H E S 102 6 H E S 162 B R.

No other bearings available. Pits impracticable.



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CROOK NATIONAL FOREST

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Chains	I mark 6-HES162 on the NE. face of the same stone for cor. No. 6 of this survey.
	Thence N. 20° 30' W. . . . .
	Along line 2-1 of H.E. No. 023562, T. J. Gibson. Descend 25 ft. to ravine.
2.65	Ravine, course NE. Ascend SE. slope 25 ft.
4.00	Top of mesa, bears NE. and SW. Continue over mesa.
8.15	Descend NW. slope 25 ft. to cor.
11.95	Arroyo 20 lks. wide, banks 2 ft. high, course NE.
12.70	Cor. No. 1 of this survey, the place of beginning.

Note: The sun was obscured at noon, therefore a latitude observation was not possible.  
 February 14, 1914.

<b>Area</b>	
Area of Homestead Entry Survey No. 162.	
Total Area . . . . .	7.35 acres.

<b>Improvements.</b>	
The improvements made upon and for the benefit of this homestead and belonging to George W. Graham, the claimant herein, consist of the following:	
08.8	A well 4 x 4 x 28 ft. deep, the center of which bears S. 53° 15' W. 2.44 chs. dist. from cor. No. 3 of this survey. Value . . . . . \$100.00
08.0	An adobe dwelling, 33 x 36 ft., the long side of which bears NW. and SE. and the W. cor. of which bears S. 79° 30' E. 138 lks. dist. from cor. No. 6 of this survey. Value . . . . . \$500.00
There is also about 1 acre of land cleared.	

Chains

Chains

General Description.

This claim is situated on Pinal Creek at an elevation of approximately 3,600 feet and is chiefly valuable for intensive farming. The soil is a sandy loam and produces any crop raised in the temperate zone. I saw no trace of mineral upon this claim. Globe postoffice and Arizona Eastern Railway Station is 2 miles in a northerly direction.

Conflicts and Adjoining Claims.

This Homestead Entry is joined on the N. by approved H. E. S. No. 74, C. H. Thayer; on the W. by H. E. No. 023562, T. J. Gibson; on the S. by H. E. S. No. 102, A. F. Williams; and on the E. by H. E. S. No. 159, A. B. Tocco.

Latitudes, Departures and Closing Errors.

Bearing	Distance	Latitude		Departure	
		N	S	E	W
N. 87° 49' E.	3.18	0.12		3.18	
S. 17° 05' E.	10.55		10.08	3.10	
S. 55° 34' E.	3.38		1.91	2.79	
S. 5° 43' E.	2.53		2.52	0.25	
N. 78° 56' W.	8.97	1.72			8.80
N. 2° 30' W.	12.70	12.69			0.55
	41.31	14.53	14.51	9.32	9.35
		14.51			9.32
Error in Lat. and Dep.		.02			.03
Closing Error	1:1146				

*Walter G. Turley*  
 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.

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. 162., STATE OF GEORGIA, W. Graham.

CORNERS.	BEARING.	DISTANCE.	LATITUDES.		DEPARTURES.		DOUBLE M. D.	N. AREAS.	S. AREAS.
			NORTH.	SOUTH.	EAST.	WEST.			
	N. 87° 49' E.	3.18	12		3.18		3.18		
	S. 17° 05' E.	10.55		10 08	3 10		9 47	95 55	
	S. 55° 34' E.	3.38		1 91	2 79		15 37	29 36	
	S. 5° 43' E.	2.53		2 52	25		18 41	46 39	
	N. 78° 56' W.	8.97	1 72				9 87		
	N. 2° 30' W.	12.70	12 69				54		
		41.31	14 53	14 51	9 32		24 21	171 30	
			14 52	14 52	9 33			24 21	
								2)147 09	
	Closing Error, 1:1146.							73 54	7.35 Acres.

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• 621021 1101 1 • 466

. M . 9 . 30 . 1 . 1  
. W . 136 . 23 . 43 . 1  
. 2 . 2 . 43 . 23 . 43 . 1  
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BEARINGS

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DEPARTMENT OF THE INTERIOR, BUREAU OF LAND MANAGEMENT, GEORGE W. CLAYTON

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APPROVAL

Office of the United States Surveyor General,  
Phoenix, Arizona,

December 11, 1914 .

The foregoing field notes of Homestead Entry Survey No.

162

George W. Graham,

executed by Walter G. Turley, Forest Service Surveyor,

under his special instructions, dated January 17, 1914,

having been critically examined, and the necessary corrections 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.