

U. S. DEPARTMENT OF AGRICULTURE  
FOREST SERVICE

115  
Estimate of  
Cor. descriptions  
6-26-29 \$1.00

Aug 3-1911  
Aug 2-1915

**FIELD NOTES**

OF

HOMESTEAD ENTRY SURVEY NO. 109

SITUATED IN THE

CROOK NATIONAL FOREST

ADMINISTRATIVE DISTRICT NO. 3

in

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

Section 13, unsurveyed, Township 1 S., Range 15 E.

~~Section 13, unsurveyed, Township 1 S., Range 15 E.~~

of the

Gila and Salt River Base and Meridian.

A R I Z O N A

Survey executed by Walter G. Turley, Forest Service Surveyor  
Under special instructions dated October 30, 1913.  
Survey commenced December 24, 1913.  
Survey completed December 24, 1913.  
Under Acts of June 11, 1906 and March 4, 1913.

Applicant for listing J. S. Sniffen  
Residence Globe, Arizona  
Application No. 13, dated March 21, 1908  
List No. 3-347, dated November 18, 1909  
Applicant for survey J. S. Sniffen  
Residence Globe, Arizona  
H. E. No. 08972, dated February 9, 1910  
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. 109, in  
unsurveyed Section 12, Township 1 S., Range 15 E.,  
unsurveyed Section 13, Township 1 S., Range 15 E.,  
~~unsurveyed Section 14~~, 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 expensive to appear before an officer to administer the oaths to assistants, hence they were taken by the Surveyor.

Benjamin F. Harbour Chainman  
John B. Wright Chainman

Subscribed and sworn to before me this 30th day of  
December, 1913.

Walter G. Turley  
Forest Service Surveyor

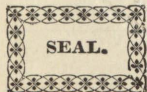
OATH OF SURVEYOR

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, surveyed a tract of land ~~upon the application of~~ embraced in  
List, No. 3-347, dated November 18, 1909, for  
Patent, under the Act of June 11, 1906, the same to be known as Homestead Entry Survey No. 109, situated within the CROOK National Forest, in unsurveyed Section 12, Township 1 S., Range 15 E., and unsurveyed Section 13, 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 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  
Forest Service Surveyor

Subscribed and sworn to before me this 19th day of  
January, 1914.

Walter G. Scott  
Notary Public



*My Commission expires July 1, 1917.*

HOMESTEAD ENTRY SURVEY NO. 109

CROOK NATIONAL FOREST

ARIZONA

Chains Applicant for listing, J. S. Sniffen; Application No. 13, dated March 21, 1908; List No. 3-347, dated November 18, 1909; H. E. No. 08972 made by J. S. Sniffen at Phoenix, Arizona, on February 9, 1910.

Surveyed under special instructions from the Surveyor General for Arizona dated October 30, 1913, and designated as Homestead Entry Survey No. 109.

Situated in unsurveyed T. 1 S., R. 15 E., G. & S. R. B. and Meridian, in what will probably be, when surveyed, Secs. 11, 12 and 13, 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 December 24, 1913, 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 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 24, 1913:

At 8 h. 00 m. a.m., l.m.t., I set off 23° 23' 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 14 and 15, 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. H-1 of the List survey and retrace its boundaries in a clockwise direction and calculate its area to be less than 160 acres.

I calculate the tie to St. 1/4 Sec. Cor. Sec. 34, T. 1 N., R. 15-1/2 E., which is a sandstone 8 x 12 x 6 ins. above ground, marked and witnessed as described by the Surveyor General, by the following traverse which I previously run and is described in the field notes of H. E. S. No. 108.

Bearing	Distance	Latitude	Departure
		N	S
			E
			W
S. 0° 37' W.	117.77	117.76	
S. 46° 05' E.	9.98	6.92	7.19
S. 61° 50' W.	9.94	4.69	8.76
S. 27° 15' E.	2.00	1.78	.92
N. 62° 00' E.	5.97	2.80	5.27
		2.80	131.15
			13.38
			10.02
			2.80
			10.02

S. 1° 29' 58" E. 128.39 128.35 3.36

Therefore the St. 1/4 Sec. cor. Sec. 34, T. 1 N., R. 15-1/2 E., bears N. 1° 29' 58" W. 1 mile 48.39 chs.

dist. from cor. No. 1 of this survey, identical with cor. H-4 of the List survey which is a granite stone 8 x 10 x 10 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 gray gneiss stone 26 x 14 x 6 ins. 16 ins. in the ground, over a small stone marked with a cross (+) for cor. No. 1 of this survey, marked 1-HES109 on the SSW. face; and raise a mound of stone 2 ft. base, 1-1/2 ft. high SSW.

HOMESTEAD ENTRY SURVEY NO. 109

CROOK NATIONAL FOREST

ARIZONA

Chains

of cor. from which,

A catsclaw 5 ins. dia. bears S. 70° 49' W. 47 lks.

dist. marked 1 H E S. 109 B T

A catsclaw 4 ins. dia. bears S. 38° 36' W. 74 lks.

dist. marked 1 H E S. 109 B T

Frame school house 18 x 24 ft. the long side of

which bears E. and W. and the SE. cor. of which

bears N. 82° 15' W. 160 lks. dist.

To observe the magnetic declination at cor. No. 1 of this

survey to be 14° 37' E. at 8 h. 30 m. a.m., l.m.t.,

which reduced by Table G, Manual of 1894, Diurnal Vari-

ation in Magnetic Declination, gives a mean magnetic

declination of 14° 36' E.

Lat. 33° 21' N. Long. 110° 43' 50" W.

Thence S. 5° 23' W. on a true line, along W. slope.

30.50 Ravine, course W. Ascend 100 ft. to ridge.

39.10 Ridge bears NE. and SW. Descend 5 ft. to cor.

41.03 To cor. No. 2.

Identical with cor. H-3 of the List survey, which is a granite stone 9 x 11 x 6 ins. above ground, marked and

witnessed as described by the Forest Service. I des-

troys all trace of this list. cor. and at this point I

set a sandstone 24 x 10 x 6 ins. 14 ins. in the ground,

over a small stone marked with a cross for cor. No. 2

of this survey, marked 2-HES109 on the NW. face; and

raise a mound of stone 2 ft. base, 1-1/2 ft. high NW.

of cor. from which,

A cross (+) on an imbedded granite boulder 30 x 20

x 10 ins. above ground bears N. 61° 49' W. 94 lks.

dist. marked 2 H E S. 109 B R.

No other bearings available. Pits impracticable.

This survey, marked 4-HES109 on the NE. face, and raise

TUCUON NATIONAL FOREST

ARIZONA

<p>Chains</p> <p>4.41</p> <p>4.60</p> <p>8.71</p> <p>6.40</p>	<p>Thence N. 84° 15' W. on a true line.</p> <p>Descend W. slope 125 ft. to Creek.</p> <p>Road, bears N. and S.</p> <p>Pinal Creek, .90 lks. wide, banks 4 ft. high, course N.</p> <p>Ascend 20 ft. to cor.</p> <p>To cor. No. 3.</p> <p>Identical with cor. H-2 of the List survey, also cor. H-7 of H. E. 016811, Joe Wilkins, unsurveyed H. E. S. No. 110, which is a granite stone 10 x 12 x 10 ins.</p> <p>above ground, marked and witnessed as described by the Forest Service. I destroy all trace of this cor. which refers to this claim, and at this point I set a gneiss stone 24 x 10 x 10 ins. 14 ins. in the ground, over a small stone marked with a cross (+) for cor. No. 3 of this survey, marked 3-HES109 on the NE. face; and raise a mound of stone 2 ft. base, 1-1/2 ft. high NE. of cor. from which, Ascend W. course, course W. A mesquite 4 ins. dia. bears N. 86° 43' E. 92 lks. dist. marked 3 H E S 109 B. T.</p> <p>No other bearings available. Pits impracticable.</p> <hr/> <p>Thence N. 211° 00' E.</p> <p>Along line 7-6, H. E. 016811, Joe Wilkins, unsurveyed H. E. S. No. 110. Across mesa.</p> <p>To cor. No. 4.</p> <p>Identical with cor. H-1 of the List survey, also cor. H-6, H. E. 016811, Joe Wilkins, unsurveyed H. E. S. No. 110, which is a granite stone 14 x 6 x 10 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 at this point I set a granite stone 24 x 10 x 5 ins. 14 ins. in the ground, over a small stone marked with a cross (+) for cor. No. 4 of this survey, marked 4-HES109 on the NE. face; and raise</p>	<p>Chains</p> <p>03.80</p> <p>30.14</p> <p>03.03</p>
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HOMESTEAD ENTRY SURVEY NO. 109

CROOK NATIONAL FOREST

ARIZONA

Chains

a mound of stone 2 ft. base, 1-1/2 ft. high NE. of cor. from which,

A catsclaw 6 ins. dia. bears N. 1° 03' W. 39 lks. dist. marked 4 H E S 109 B T

A mesquite 5 ins. dia. bears S. 37° 06' E. 86 lks. dist. marked 4 H E S 109 B T.

Thence N. 78° 08' W.

Along line 6-5 of H. E. 016811, Joe Wilkins, unsurveyed

H. E. S. No. 110. Ascend 25 ft. along S. slope to cor.

0.24 Fence, bears NW. and SE.

8.78 Fence, bears NE. and SW.

8.98 To cor. No. 5.

Identical with cor. H-8 of the List survey, also cor.

H-5 of H. E. 016811, Joe Wilkins, unsurveyed H. E. S.

No. 110, which is a granite stone 14 x 6 x 10 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 at this point I set a

quartzite stone 28 x 12 x 8 ins. 18 ins. in the ground,

over a small stone marked with a cross (+) for cor. No.

5 of this survey, marked 5-HES109 on the NE. face; and

raise a mound of stone 2 ft. base, 1-1/2 ft. high NE.

of cor. from which,

An imbedded red quartzite 33 x 32 x 16 ins. above

ground bears N. 50° 30' E. 73 lks. dist.

marked 5 H E S 109 B R.

No other bearings available. Pits impracticable.

December 24, 1913:

At 12 h. 00 m. noon, l.m.t., I set off 23° 25' S. on the

decl. arc and observe the sun on the meridian at appar-

ent noon and obtain a reading of 33° 21' on the lat. arc.

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ARIZONA

Chains		Chains
	<p>Thence N. 29° 37' W. Descend 40 ft. to ravine.</p> <p>3.75 Ravine, course E. Ascend 30 ft. to ridge.</p> <p>5.00 Ridge bears E. and W. Descend 25 ft. to ravine.</p> <p>12.70 Ravine, course E. Ascend 125 ft. to ridge.</p> <p>18.50 Ridge bears E. and W. Descend 5 ft. to cor.</p> <p>20.60 To cor. No. 6.</p>	
	<p>Identical with cor. H-7 of the List survey, which is a porphyry stone 12 x 4 x 10 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 red quartzite stone 26 x 14 x 8 ins. 16 ins. in the ground, over a small stone marked with a cross (+) for cor. No. 6 of this survey, marked 6-HES109 on the E. face; and raise a mound of stone 2 ft. base, 1-1/2 ft. high E. of cor. from which,</p> <p>An oak 4 ins. dia. bears S. 84° 07' E. 47 kls. dist. marked 6 H E S 109 B T</p> <p>No other bearings available. Pits impracticable.</p>	
	<p>Thence N. 61° 50' E. on a true line. Descend 115 ft. to ravine.</p> <p>11.78 Ravine, course E. Ascend 10 ft. to spur.</p> <p>14.00 Spur, course E. and W. Descend 30 ft. to Creek.</p> <p>18.39 Cor. No. 3, H. E. S. 108, Zee Hayes, which is a quartzite boulder 10 x 9 x 10 ins. above ground, marked and witnessed as described by me in the field notes thereof.</p> <p>Continue along line 3-2 of H. E. S. 108.</p> <p>27.32 To cor. No. 7.</p>	
	<p>Identical with cor. H-6 of the List survey, which is a granite stone 8 x 8 x 12 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 gray gneiss stone 30 x 14 x 6 ins. 20 ins. in the</p>	



HOMESTEAD ENTRY SURVEY NO. 109

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Chains

ground, over a small stone marked with a cross (+) for cor. No. 7 of this survey, marked 7-HES109 on the S. side; and raise a mound of stone 2 ft. base, 1-1/2 ft. high S. of cor. from which,

A sycamore 18 ins. dia. bears S. 81° 30' E. 65 lks. dist. marked 7 H E S 109 B T

A mesquite 4 ins. dia. bears S. 51° 33' W. 196 lks. dist. marked 7 H E S 109 B T

Cor. No. 2 of H. E. S. 108, Zee Hayes, bears N. 61° 50' E. 9.94 chs. dist.

Thence S. 27° 15' E. on a true line. Fence, bears N. and S.

1.00 Pinal Creek, 95 lks. wide, banks 2 ft. high, course NNE.

2.00 To cor. No. 8.

Identical with cor. H-5 of the List survey, which is a granite stone 15 x 8 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 24 x 12 x 8 ins. 14 ins. in the ground, over a small stone marked with a cross (+) for cor. No. 8 of this survey, marked 8-HES109 on the S. face; and raise a mound of stone 2 ft. base, 1-1/2 ft. high S. of cor. from which,

A sycamore 30 ins. dia. bears S. 32° 33' W.

49 lks. dist. marked 8 H E S 109 B T

A hackberry 10 ins. dia. bears N. 47° 55' W.

79 lks. dist. marked 8 H E S 109 B T.

Thence N. 62° 00' E. on a true line.

Ascend 35 ft. to cor.

2.30 Road, bears N. and S.

5.97 To cor. No. 1 of this survey, the place of beginning.

December 24, 1913.

Chains

Chains

Area of Homestead Entry Survey No. 109.

Total area: . . . . . 71.60 acres

Improvements.

The improvements made upon and for the benefit of this homestead and belonging to J. S. Sniffen, the claimant herein, consist of the following:

A frame dwelling 18 x 24 ft. the long side of which bears N. and S. and the NE. cor. of which bears S. 22° 15' W. 14.00 chs. dist. from cor. No. 1 of this survey.

Value . . . . . \$750.00

There is some miscellaneous fencing, the value of which is . . . . . \$50.00

General Description

This claim is situated on Pinal Creek at an elevation of approximately 3750 ft. and is chiefly valuable for cattle raising. The soil is a sandy loam and produces any crop raised in the temperate zone. There appears to be no mineral on this homestead. Globe postoffice and Arizona Eastern Railway station is three miles in a northerly direction.

Conflicts and Adjoining Claims.

This claim is joined on the North by H. E. S. No. 108, Zee Hayes, and on the South by H. E. 016811, Joe Wilkins, unsurveyed H. E. S. No. 110.

December 24, 1913.

CROOK NATIONAL FOREST

ARIZONA

Chains

Traverse

chains

Bearing	Distance	Latitude		Departure	
		N	S	E	W
S. 5° 23' W.	41.03		40.85		3.85
N. 84° 15' W.	8.71	.86			8.67
N. 11° 00' E.	6.40	6.28		1.22	
N. 78° 08' W.	8.98	1.85			8.79
N. 29° 37' W.	20.60	17.91			10.18
N. 61° 50' E.	27.32	12.90		24.08	
S. 27° 15' E.	2.00		1.78	.92	
N. 62° 00' E.	5.97	2.80		5.27	
121.01		42.60	42.63	31.49	31.49
Error in Lat. and Dep.			42.60	31.49	
			.03	.00	
Closing error 1:4034.					

*Walter G. Turley*  
 Forest Service Surveyor.

NATIONAL FOREST

ARIZONA

Chains	Traverse				Chains
	Departure	Latitude	Distance	Bearing	
W	E	S	N		
8.85		40.85	41.02	2. 50 23' W.	
8.67			8.71	N. 84° 15' W.	
	1.22		6.40	N. 17° 00' E.	
8.79			8.98	N. 78° 08' W.	
10.18			17.91	N. 22° 37' W.	
	24.08		12.90	N. 61° 50' E.	
	.92	1.78	2.00	S. 27° 15' E.	
	2.27		2.80	N. 62° 00' E.	
<hr/>					
31.49	31.49	42.63	42.60	121.01	
	31.49	42.60			Error in lat. and Dep.
	<u>.00</u>	<u>.03</u>			Closing error 1:4034.

*[Signature]*  
 Forest Service Surveyor.

126.8

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. 109., STATE OF Arizona., John S. Sniffen.

CORNERS.	BEARING.	DISTANCE.	LATITUDES.		DEPARTURES.		DOUBLE M. D.	N. AREAS.	S. AREAS.
			NORTH.	SOUTH.	EAST.	WEST.			
	S. 5° 23' W.	41.03		40 85		3 85	56 69		2315 22
	S. 84° 15' W.	8.71	0 86			8 67	44 17	37 99	
	N. 11° 00' E.	6.40	6 28		1 22		36 72	230 60	
	N. 78° 08' W.	8.98	1 85			8 79	29 15	53 93	
	N. 29° 37' W.	20.60	17 91			10 18	10 18	182 43	
	N. 61° 50' E.	27.32	12 90		24 08		24 08	310 87	
	S. 27° 15' E.	2.00		1 78	0 92		49 08		87 36
	N. 62° 00' E.	5.97	2 80		5 27		55 27	154 76	
		121.01	42 60	42 63	31 49	31 49		970 58	2402 58
			42 62	42 63	31 49	31 49		970 58	970 58
								2)1432 00	
								716 00	= 71.60 Acres.

Closing Error, 1:4034.

T. A.  
E. T.



APPROVAL

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

The foregoing field notes of Homestead Entry Survey No.

109

J. S. Sniffen

executed by Walter G. Turley, F. S. S.  
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.