

U. S. DEPARTMENT OF AGRICULTURE
FOREST SERVICE

SEP-3-1914

FIELD NOTES

OF

HOMESTEAD ENTRY SURVEY NO. 114.

SITUATED IN THE

CROOK NATIONAL FOREST

ADMINISTRATIVE DISTRICT NO. 3

in

Section 9, unsurveyed, Township 1 S., Range 15 E.

Section 16, unsurveyed, Township 1 S., Range 15 E.

Section 17, unsurveyed, Township 1 S., Range 15 E.

of the

Gila and Salt River Principal Meridian.

Arizona

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

Under special instructions dated October 30, 1913

Survey commenced January 14, 1914

Survey completed January 14, 1914

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

Applicant for listing John Hansen and H. W. Piper,

Residence Globe, Arizona.

Application No. 110 - 131, dated June 22, 1909 and Jan. 28, 1910
3-226 and

List No. 3-685, dated July 6, 1909 and September 22, 1910

Applicant for survey H. W. Piper

Residence Globe, Arizona.

012755

H. E. No. 014311, dated Dec. 12, 1910 and July 5, 1911.

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. 114, in
un surveyed Section 9, Township 1 S., Range 15 E.,
un surveyed Section 16, Township 1 S., Range 15 E.,
un surveyed Section 17, Township 1 S., Range 15 E.

of the G. & S. R. P. 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. Haborers, Chainman.
Joseph H. Woolsey, Chainman.

Subscribed and sworn to before me this 2nd day of
February, 1914.

Walter G. Turley
Forest Service Surveyor

OATH OF SURVEYOR

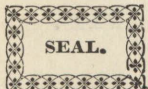
I, Walter G. Turley, Forest Service Sur do solemnly swear
that, in strict conformity with the special instructions of
the United States Surveyor General for Arizona, dated
October 30, 1913, and the laws of the United States, I have
well, faithfully, and truly, in my own proper person, sur-
veyed a tract of land ~~upon the application of~~ embraced in
List Nos. 3-226, and 3-685, dated July 6, 1909 and Sept. 22, 1910.
for Patent, under the Act of June 11, 1906,
the same to be known as Homestead Entry Survey No. 114,
situated within the CROOK National Forest, in
un surveyed Section 9, Township 1 S., Range 15 E., and
un surveyed Section 16, Township 1 S., Range 15 E.,
un surveyed Section 17, Township 1 S., Range 15 E.

of the G. & S. R. P. 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 21st day of
February, 1914

Walter G. Scott
Notary Public



My Commission expires July 1, 1917

CROOK NATIONAL FOREST

ARIZONA

Chains

Applicants for listing, John Hansen and Henry W. Piper; Applications Nos. 110 and 131, dated June 22, 1909, and January 28, 1910; List Nos. 3-226 and 3-685, dated July 6, 1909 and September 22, 1910; H. E. Nos. 012755 and 014311 made by Henry W. Piper at Phoenix, Arizona, on December 12, 1910 and July 5, 1911.

Surveyed under special instructions from the Surveyor General for Arizona dated October 30, 1913, and designated as Homestead Entry Survey No. 114.

Situated in unsurveyed T. 1 S., R. 15 E., G. & S. R. B. and Meridian, in what will probably be, when surveyed, secs. 9, 16, 8 and 17, within the Crook National Forest, Arizona.

Listed under the Act of June 11, 1906, and survey authorized by the Acts of August 10, 1912 and March 4, 1913.

Survey commenced January 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 examined, tested and all necessary adjustments made to the levels, line of collimation, stadia interval and solar attachment.

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.

January 14, 1914:

At 9 h. 00 m. a.m., l.m.t., I set off $21^{\circ} 21' S.$ on the

Chains

decl. arc and $33^{\circ} 21'$ on the lat. arc and determine a meridian with the solar at cor. No. 1 of H. E. S. 113, C. W. Shepard, which is an imbedded granite boulder $60 \times 48 \times 60$ ins. above ground, marked and witnessed as described by me in the field notes thereof. I set off S. $63^{\circ} 30'$ E. on the horizontal limb and my line of sight falls upon the cross on the granite boulder $24 \times 24 \times 12$ ins. above ground, which is cor. No. 2 of H. E. S. 113, C. W. Shepard, marked and witnessed as described by me in the field notes thereof. Therefore I conclude that my transit is in satisfactory adjustment.

At 10 h. 00 m. a.m., l.m.t., I set off $21^{\circ} 20'$ S. on the decl. arc and $33^{\circ} 23'$ 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 E., which is a granite rock $12 \times 4 \times 8$ ins. above ground, marked and witnessed as described by the Surveyor General.

Thence S. $10^{\circ} 10'$ E. on a true line.
 83.30 To cor. No. 1.
 Identical with cor. H-3 of the List survey, which is a granite boulder $5 \times 3 \times 1$ ft. above ground, marked and witnessed as described by the Forest Service. I destroy all trace of this list cor. and mark a cross (+) on the apex of the same boulder for cor. No. 1 of this survey and 1-HES114 on the SW. face; and raise a mound of stone 2 ft. base, $1-1/2$ ft. high SW. of cor. from which,

A cross (+) on an imbedded granite boulder $4 \times 4 \times 4$ ft. above ground bears S. $4^{\circ} 45'$ E. 66 lks. dist. marked 1 H E S 114 B.R.

No other bearings available. Pits impracticable.

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 I observe the magnetic declination at cor. No. 1 to be $17^{\circ} 10'$ E. at 11 h. 00 m. a.m., l.m.t., which reduced by Table G, Manual 1894, Diurnal Variation in Magnetic Declination, gives a mean magnetic declination of $17^{\circ} 09'$ E. Long. $110^{\circ} 46' 55''$ W. as obtained from instructions from the Surveyor General.

Thence S. $18^{\circ} 21'$ W. 50 ft.

Descend W. slope 50 ft. to bottom. Foot of descent bears N. and W., also a ravine, course

Ascend NW. slope 50 ft. to cor. 13

Road, bears NE. and SW.

To cor. No. 2.

Identical with cor. H-4, H-3 of the List survey, which is a granite boulder $5 \times 5 \times 4$ ft. above ground, marked and witnessed as described by the Forest Service. I destroy all trace of this list cor. and mark a cross (+) on the apex of the same boulder for cor. No. 2 of this survey and 2-HES114 on the NW. face; and raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high NW. of cor. from which, as witnessed and marked, bears N. $22^{\circ} 27'$ E. 80 lks. dist. marked 2 H E S 114 B T. No other bearings available. Pits impracticable. Leave List 3-685 and continue along line of List 3-226.

Thence S. $49^{\circ} 22'$ W. 50 ft.

Along NW. slope in undergrowth. Descend 25 ft.

Ravine, course NW. Ascend 75 ft. along NW. slope in undergrowth to cor.

Fence, bears W. of N. and S. of E.

To cor. No. 3.

Identical with cor. H-2 of the List survey, which is an imbedded granite boulder $24 \times 24 \times 12$ ins. above ground, marked and witnessed as described by the Forest Service. I destroy all trace of this list cor. At

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this point I previously established cor. No. 2 of H. E. S. 113, by marking a cross (+) on the apex of this boulder and 2-HES113 on the W. face, with mound of stone 2 ft. base, 1-1/2 ft. high W. of cor. I mark same boulder 3-HES114 on N. face for cor. No. 3 of this survey, whence

A manzanita 4 ins. dia. bears S. 21° 39' E.

53 lks. dist. marked 2 H E S 113 3 H E S 114 B T

A manzanita 4 ins. dia. bears N. 58° 47' W.

21 lks. dist. marked 2 H E S 113 3 H E S 114 B T

Thence N. 63° 30' W.

Along line 1-2 of H. E. S. No. 113, C. W. Shepard.

Descend 25 ft. to creek

5.22 Water course in Russell Gulch, 50 lks. wide, banks 2 ft.

high, course NE. Ascend SE. slope 100 ft. to cor.

7.45 Road, bears NE. and SW.

9.98 Cor. No. 1 of H. E. S. No. 115, C. W. Shepard, which is

an imbedded granite boulder 60 x 48 x 60 ins. above ground, marked and witnessed as described by me in the

field notes thereof.

10.96 To cor. No. 4

Identical with cor. H-1 of the List survey, which is

an imbedded granite boulder 36 x 36 x 18 ins. above

ground, marked and witnessed as described by the Forest

Service. I destroy all trace of the list cor. and

mark a cross (+) on the apex of the same stone for cor.

No. 4 of this survey and 4-HES114 on the E. face; and

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

of cor. from which,

An oak 4 ins. dia. bears N. 60° 33' E. 110 lks.

Dist. marked 4 H E S 114 B T

No other bearings available. Pits impracticable.

I destroy all trace of this list cor.

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Chains	Thence N. 45° 48' E. Descend SE. slope 50 ft. to bottom. 6.25 Enter bottom, bears N. and S. 10.15 Leave bottom, bears E. and W. Ascend 125 ft. to ridge. 50.25 Ridge bears NW. and SE. Descend 50 ft. to cor. 70.08 To cor. No. 5. Identical with cor. H-1-4 of the List survey, which is a granite boulder 4 x 4 x 5 ft. above ground, marked and witnessed as described by the Forest Service. I destroy all trace of this list cor. and mark a cross (+) on the apex of the same boulder for cor. No. 5 of this survey and 5-HES114 on the SE. face; and raise a mound of stone 2 ft. base, 1-1/2 ft. high SE. of cor. The only witnesses available to this cor. are the improvements. Pits impracticable. Leave List 3-226 and continue along line of List 3-685.
	Thence N. 17° 56' E. Descend 100 ft. along E. slope to ravine. 13.20 Ravine, course NE. Ascend 15 ft. to ridge. 16.15 Ridge, bears NE. and SW. Descend E. slope 50 ft. to cor. 19.88 To cor. No. 6. Identical with cor. H-2 of the List survey, which is a red sandstone 8 x 6 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 quartzite stone 28 x 15 x 10 ins. 18 ins. in the ground, over a small stone marked with a cross (+) for cor. No. 6 of this survey, marked 6-HES114 on the SE. face; and raise a mound of stone 2 ft. base, 1-1/2 ft. high SE. of cor. from which, A cross (+) on a porphyry stone 24 x 24 x 6 ins. above ground, bears S. 12° 05' E. 60 lks. dist. marked 6 H E S 114 B R No other bearings available. Pits impracticable.

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Thence N. 81° 15' E.

Descend E. slope 85 ft. to creek.

9.30 Water course in Russell Gulch, 50 lks. wide, banks 2 ft. high, course N. Ascend W. slope 70 ft. to cor.

13.87 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.

January 14, 1914.

(+) Area of Homestead Entry Survey No. 114

Total area 116.60 acres

Improvements

The improvements made upon and for the benefit of this claim and belonging to Henry W. Piper, the claimant herein, consist of the following:

A frame dwelling 21 x 25 ft. the long side of which bears N. and S. and the NW. cor. of which bears S. 52° E. 8.05 chs. dist. from cor. No. 5 of this survey.

Value \$350.00

A frame stable 18 x 50 ft. the long side of which bears N. and S. and the NW. cor. of which bears S. 67° 45' E. 8.50 chs. dist. from cor. No. 5 of this survey.

Value \$ 75.00

General Description

This claim is situated on Russell Gulch at an elevation of approximately 3,800 ft. and is chiefly valuable for stock raising and intensive farming. The soil is a sandy loam and produces any crop raised in the temper-

There appears to be no mineral on this claim.

Globe postoffice and Arizona Eastern Railway Station is

CROOK NATIONAL FOREST

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three miles distant in a northeasterly direction.

Conflicts and Adjoining Claims.

This claim is joined on the SW. by H. E. S. No. 113,
C. W. Shepard.

Traverse

Bearing	Distance	Latitude		Departure	
		N	S	E	W
S. 18° 21' W.	33.98		32.26		10.70
S. 49° 22' W.	65.35		42.56		49.59
N. 63° 30' W.	10.96	4.89			9.81
N. 45° 48' E.	70.08	48.86		50.24	
N. 17° 56' E.	19.88	18.91		6.12	
N. 81° 15' E.	13.87	2.11		13.71	
	214.12	74.77	74.82	70.07	70.10
			<u>74.77</u>		<u>70.07</u>
Error in Lat. and Dep.			.05		.03
Closing error	1:3672				

Walter G. Turley
Forest Service Surveyor.

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HOMESTEAD ENTRY SURVEY NO. 113

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TRVERSE

Chains		Bearing		Distance		Latitude		Departure	
W	E	N	S	N	S	N	S	W	E
10.70		2.18°	21' W.	33.98	32.38				
49.82		2.40°	23' W.	66.35	48.33				
9.81		N. 63°	30' W.	10.92	4.89				
	50.34	N. 45°	48' E.	70.08	48.86				
	6.13	N. 17°	56' E.	19.88	18.91				
	13.71	N. 81°	15' E.	13.87	2.11				
70.10	70.07	314.13		74.77	74.82				
70.07				74.77					
08.		Closing error 1:3678		Error in lat. and Dep.		08.			

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Departure

10.70
49.82
9.81

70.10
70.07

08.

Forest Service Surveyor.

Walter R. ...

Chains

three miles distant in a northeasterly direction.

This claim is joined on the SW. by H. E. S. No. 113.
G. W. Shepard.

Traverse

Bearing Distance Latitude Departure

2.18° 21' W. 33.98 32.38
2.40° 23' W. 66.35 48.33
N. 63° 30' W. 10.92 4.89
N. 45° 48' E. 70.08 48.86
N. 17° 56' E. 19.88 18.91
N. 81° 15' E. 13.87 2.11

314.13 74.77 74.82 70.07

Error in lat. and Dep. 08.

Closing error 1:3678

- 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 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

Henry M. Piper F. C. S. 1111

No.	COURSE.	DISTANCE.	LATITUDES.		DEPARTURES.		DOUBLE M. D.	N. AREAS.	S. AREAS.
			NORTH.	SOUTH.	EAST.	WEST.			
	S. 18° 21' 21" N.	3398		3228 ⁵		1070 ⁶⁹	12947		417541
	S. 49° 22' 21" N.	6535		4258 ⁷		4954 ⁸	6920		294377
	N. 63° 30' 21" N.	1096	489			981	981	4997	
	N. 45° 48' E.	7008	4888 ⁸		5024 ⁵		5025	245622	
	N. 17° 56' E.	1988	1891		612		10662	201618	
	N. 81 15 E.	1387	211		1371		12645	26681	
		21412	7477	7482	7007	7010		478718	711918
			7479	7479	7008	7008		478718	478718
								2233200	2233200
								11660 = Area.	11660 = Area.

Closing Error = 1.3672

APPROVAL

Office of the United States Surveyor General,
Phoenix, Arizona,
December 10, 1914.

The foregoing field notes of Homestead Entry Survey No.

114

H. W. Piper

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.