

U. S. DEPARTMENT OF AGRICULTURE
FOREST SERVICE

JAN 22 1915

AUG 2 - 1915

FIELD NOTES

OF

HOMESTEAD ENTRY SURVEY NO. 118

SITUATED IN THE

CROOK NATIONAL FOREST

ADMINISTRATIVE DISTRICT NO. 3

in

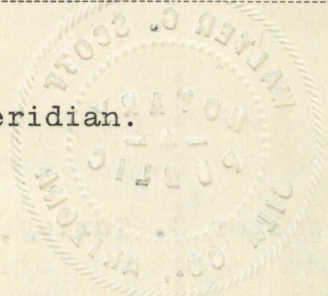
Section 20, un surveyed, Township 1 S., Range 16 E.

Section 29, un surveyed, Township 1 S., Range 16 E.

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

and Supplemental Special Instructions dated March 2, 1914

Survey commenced March 9, 1914

Survey completed March 9, 1914

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

Applicant for listing Cesare Bottaini and F. H. Chadwick

Residence Globe, Arizona

Application No. 31 & 201, dated June 9, 1908 & Dec. 14, 1911

List No. 3-221, -1821, dated June 28, 1909 and March 25, 1912

Applicant for survey F. H. Chadwick

Residence Globe, Arizona

H. E. No. 021855, dated March 24, 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. 118, in
unsurveyed Section 20, Township 1 S., Range 16 E.,
unsurveyed Section 29, Township 1 S., Range 16 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

chain Guy Turley
chain P. R. Johnson
Flag Robert E. Lee Jr.

Subscribed and sworn to before me this 12th day of
March, 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 Oct. 30, 1913
and March 2, 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 ~~as per application of~~ embraced in List
Ncs. 3-221, -1821, dated June 28, 1909 and March 25, 1912, for
Patent, under the Act of June 11, 1906,
the same to be known as Homestead Entry Survey No. 118,
situated within the CROOK National Forest, in
unsurveyed Section 20, Township 1 S., Range 16 E., and
unsurveyed Section 29, Township 1 S., Range 16 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 12th day of
March, 1914. Walter G. Scott

Notary Public
My commission expires July 1, 1917



CROOK NATIONAL FOREST

STATE OF ARIZONA

Chains Applicants for listing, Cesare Bottaini and F. H. Chadwick; Application Nos. 31 and 201, dated June 9, 1908 and December 14, 1911; List Nos. 3-221 and 3-1821, dated June 28, 1909 and March 25, 1912; H. E. No. 021855, dated March 24, 1913, made by F. H. Chadwick at Phoenix, Arizona. for List 3-1821.

Surveyed under special instructions dated October 30, 1913, and supplemental instructions dated March 2, 1914, from the Surveyor General for Arizona, and designated as Homestead Entry Survey No. 118.

Situated in unsurveyed T. 1 S., R. 16 E., G. & S. R. B. & Meridian, in what will probably be, when surveyed, secs. 20 and 29, 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 March 9, 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 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.

March 9, 1914.

I observe points in accordance with instructions at 4.30 p.m., I.M.T., and mark the line thus determined by driving a tack in a stake set 4.00 chs. north

Chains

March 9, 1914.

At 9h. 30m. a.m., l.m.t., I set off $4^{\circ} 37'$ S. on the decl. arc and $33^{\circ} 19'$ on the lat. arc and determine a meridian with the solar at cor. H-4 of the list survey, which is a granite stone 20 x 5 x 10 ins. above ground, marked and witnessed as described by the Forest Service, 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 observing the altitude of the sun for azimuth on January 22, 1914, and by Polaris observation on March 9, 1914, therefore I conclude that my transit is in satisfactory adjustment.

My transit was tested upon the meridian established by me at cor. H-4 of the list survey at the time I made the survey of List 3-1821 as follows:

January 22, 1914.

I observe the altitude of the sun for azimuth at cor. H-4 of the list survey, heretofore described. The reading on the reference object was set at zero and the sun was observed in the upper left and lower right quadrants of the field. My watch is set for local mean time. Latitude of station $33^{\circ} 19' 02''$ N.; and Longitude $110^{\circ} 41' 28''$ W. obtained from the special instructions of the Surveyor General.

Horizontal Angle	Vertical Angle	h. m. s.	Telescope
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$40^{\circ} 08'$	$25^{\circ} 45'$	3 45 55	Direct
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$39^{\circ} 46'$	$26^{\circ} 00'$	3 47 15	Reversed
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Bearing of object S. $0^{\circ} 00' 28''$ W.

March 9, 1914.

I observe Polaris in accordance with instructions at 6h. 48m. p.m., l.m.t., and mark the line thus determined by driving a tack in a stake set 4.00 chs. north

CROOK NATIONAL FOREST

ARIZONA

Chains	of my station.	
	Astron. l.m.t., obsn. March 9, 1914	48 m
	Astron. l.m.t., U. C. Pol. March 9, 1914	<u>21.9</u>
	Hour Angle Pol. at obsn.	4 26.1

Azimuth Pol. at obsn. 1° 16' 02" W. .I .ON .roo

I turn off the azimuth 1° 26' to E. of the line thus determined and my line of sight defines a meridian which differs 0° 00' 25" from the meridian as determined by observing the sun in altitude for azimuth on January 22, 1914; and to the meridian which marks the mean of these two observations, all the courses of this survey are referred.

March 9, 1914.

At 10 h. 00 m. a.m., l.m.t., I set off 4° 37' S. on the decl. arc and 33° 19' on the lat. arc and determine a meridian with the solar at the 69 mile corner on the W. bdy. of the White Mountain Indian Reservation, which is a quartzite stone 16 x 8 x 9 ins. above ground, marked and witnessed as described by the Surveyor General, and retrace its west bdy. as follows:

- Thence N. 8° 25' E.
- On a random line.
- 23.76 Cor. H-4 of List 3-1821 and H-3 of List 3-221, heretofore described.
- 40.15 The 68-1/2 mile cor. which is a quartzite stone 16 x 11 x 7 ins. above ground, marked and witnessed as described by the Surveyor General.
- 44.57 Cor. H-2 of List 3-221, which is a schist stone 12 x 8 x 7 ins. above ground, marked and witnessed as described by the Forest Service.
- 80.20 The 68 mile cor. which is a granite stone 13 x 12 x 5 ins.

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HOMESTEAD ENTRY SURVEY NO. 118

CROOK NATIONAL FOREST

ARIZONA

Chains above ground, marked and witnessed as described by the Surveyor General.

Return course S. 8° 25' W.

Cor. No. 1. Identical with cor. H-2 of List 3-221, heretofore described. I destroy all trace of this list cor. and at this point I set a granite stone 24 x 14 x 10 ins. 14 ins. in the ground, over a marked stone, for cor. No. 1 of this survey, marked 1-HES118 on SSW. face; and raise a mound of stone alongside SSW. of cor., from which:

68-1/2 mile cor. on W. bdy. White Mountain Indian Reservation bears S. 8° 25' W. 4.42 chs. dist.

68 mile cor. on W. bdy. White Mountain Indian Reservation bears N. 8° 25' E. 35.63 chs. dist.

No other bearings available. Pits impracticable.

I observe the magnetic declination at cor. No. 1 to be 14° 30' E. at 11 h. 00 m. a.m., l.m.t. Resultant mean magnetic declination 14° 29' E.

Thence S. 8° 25' W.

Along W. bdy. of White Mountain Indian Reservation and wire fence. Descend 20 ft. to bottom.

1.50 Enter bottom, bears E. and W. Continue over bottom

4.42 The 68-1/2 mile cor. on W. bdy. White Mountain Indian Reservation, heretofore described.

9.00 Road, bears E. and W.

10.05 Left bank of arroyo, 30 lks. wide, banks 2 ft. high, course E. Ascend 30 ft.

20.81 To cor. No. 2.

Identical with cor. H-3-4 of the list survey, heretofore described. I destroy all trace of this list cor.

CROOK NATIONAL FOREST

ARIZONA

Chains

and at this point I set a quartzite stone 24 x 12 x 5 ins. 14 ins. in the ground, over a small stone marked with a (+), for cor. No. 2 of this survey, marked

2-HES118 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 30 x 12 ins. above ground, marked 2 H E

S 118 B R bears N. 59° W. 18 lks. dist.

69 mile cor. on W. bdy. White Mountain Indian

Reservation bears S. 8° 25' W. 23.76 chs. dist.

No other witnesses available. Pits impracticable.

Note: At this cor. I pass from List 3-221 and continue upon List 3-1821.

Thence S. 81° 10' W.

Along line 4-3 of the List survey. Descend NW. slope 20 ft. to ravine. Leave fence at cor.

7.10 Ravine, course NE. Ascend SE. slope 30 ft. to ridge.

10.50 Ridge bears N. and S. Continue along N. slope in undergrowth.

14.00 Descend NW. slope 15 ft.

34.66 To cor. No. 3.

Identical with H-3 of the List survey, which is a granite stone 10 x 7 x 7 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

schist stone 24 x 15 x 6 ins. 14 ins. in the ground, over a marked stone, for cor. No. 3 of this survey, marked 3-HES118 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 4 ins. dia., bears S. 86° 35' E. 10 lks.

dist. marked 3 H E S 118 B T

CROOK NATIONAL FOREST

ARIZONA

<p>Chains</p> <p>0.50</p> <p>1.10</p> <p>4.15</p> <p>4.40</p>	<p>An oak 6 ins. dia. bears N. 38° 45' E. 131 lks. dist. marked 3 H E S 118 B T</p> <hr/> <p>Thence N. 1° 15' E.</p> <p>Along line 3-2 of the list survey. Descend 5 ft. to bottom.</p> <p>Enter bottom, bears NE. and SW.</p> <p>Right bank of arroyo, 20 lks. wide, banks 1 ft. high, course E.</p> <p>Road, bears E. and W. Leave bottom and ascend 15 ft. to cor.</p> <p>Fence cor. from which the fence bears N. 1° 15' E. and ENE.</p>
<p>15.98</p> <p>14.95</p> <p>15.98</p>	<p>To cor. No. 4.</p> <p>Identical with cor. H-2 of the list survey, which is a granite stone 9 x 7 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 marked stone, for cor. No. 4 of this survey, marked 4-HES118 on the SE. face; and raise a mound of stone 2 ft. base, 1-1/2 ft. high SE. of cor.</p> <p>This cor. is at the cor. of a fence which bears S. 1° 15' W. and S. 88° 38' E.</p> <p>Pits impracticable. No bearings available.</p> <hr/> <p>Thence S. 88° 38' E.</p> <p>Along line 2-1 of the list survey and fence. Descend 15 ft. along E. slope of ravine.</p> <p>Ravine, course SE. Ascend 10 ft. to spur.</p> <p>Spur bears N. and S. Descend 10 ft.</p>
<p>15.98</p>	<p>To cor. No. 5.</p> <p>Identical with cor. H-1 of the list survey, which is</p>

T2 CROOK NATIONAL FOREST

ARIZONA

Chains an imbedded schist stone 16 x 12 x 5 ins. above ground, marked and witnessed as described by the Forest Service.

To destroy all trace of this list cor. and mark a cross (+) at the apex of the same stone for cor. No. 5 of this survey and 5-HES118 on the SE. face; and raise a mound of stone 2 ft. base, 1-1/2 ft. high SE. of cor., from which:

1. A frame dwelling 14 x 20 ft. the long side of which bears N. and S. and the NE. cor. of which bears S. 30 lks. dist. marked 5 H E S 118 B T.

2. A catclaw 5 ins. dia. bears S. 88° 30' E. 36 lks. dist., marked 5 H E S 118 B T.

Note: At this cor. pass from List 3-1821 to List 3-221.

Thence N. 63° 45' E. Along line 1-2 of the list survey, Ascend 20 ft. along S. slope.

8.10 Ridge, bears NW. and SE. Descend E. slope 30 ft. to ravine.

13.30 Ravine, course SE. Ascend SW. slope 10 ft. to cor.

23.38 To cor. No. 1, the place of beginning.

Area.
Total Area of H. E. S. No. 118 55.16 acres.

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

Improvements

The improvements made upon and for the benefit of this claim and belonging to F. H. Chadwick, the claimant, consist of the following:

A frame dwelling, 14 x 20 ft., the long side of which bears N. and S. and the NE. cor. of which bears S.

Closing Error: 1:3694

170 .8.

CROOK NATIONAL FOREST

ARIZONA

Chains 32° 40' W. 3.50 chs. dist. from cor. No. 5.

Value \$100.00

A frame chicken house 14 x 16 ft., the long side of which bears E. and W. and the NE. cor. of which bears S. 39° 20' W. 2.64 chs. dist. from cor. No. 5.

Value \$20.00

A frame stable 12 x 16 ft., the long side of which bears N. and S. and the NE. cor. of which bears S. 51° 10' W. 3.40 chs. dist. from cor. No. 4.

Value \$25.00

General Description

This claim is situated in a bottom along a ravine, the course of which is East, at an elevation of approximately 3,950 ft. and is chiefly valuable for stock raising and intensive farming.

There appears to be no mineral upon this claim. The soil is a sandy loam and the bottom land is very fertile. Globe Post Office and Arizona Eastern Railway station is 6 miles in a northerly direction.

Conflicts and Adjoining Claims.

This claim is joined on the East by the White Mountain Indian Reservation.

March 9, 1914.

Traverse

Bearing	Dist.	Latitude	Departure
		N S	E W
S. 8° 25' W.	20.81	20.59	3.05
S. 81° 10' W.	34.66	5.32	34.25
N. 1° 15' E.	15.98	15.98	.35
S. 88° 38' E.	15.98	.38	15.98
N. 53° 45' E.	23.38	10.34	20.97
	110.82	26.32	37.30
		26.29	37.30
Error in Lat. and Dep.		.03	.00

Closing Error 1:3694.

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 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. 118, STATE OF Arizona, F. H. Chadwick.

CORNERS.	BEARING.	DISTANCE.	LATITUDES.		DEPARTURES.		DOUBLE M. D.	N. AREAS.	S. AREAS.
			NORTH.	SOUTH.	EAST.	WEST.			
1	S 8° 25' W.	20.81		20.59 ⁶⁰		3.05	71.55	1473.93	
2	S. 81° 10' W.	34.66		5.32 ³		34.25	34.25	182.55	
3	N. 1° 15' E.	15.98	15.98		.35		.35	5.59	
4	S. 88° 38' E.	15.98		.38	15.98		16.68	6.34	
5	N. 63° 45' E.	23.38	10.34 ³		20.97	53.63	554.00	1662.82	
		110.82	26.32	26.29	37.30		559.59	559.59	
			26.31	26.31				1103.23	
								55.16	= Area.
Closing error 1:3694.									
Direct Solar. Sin. decl. - tan. lat. tan. alt. Cos. Q = $\frac{\text{Cos. Lat. Cos. Alt.}}{\text{H.A.} = 39^\circ 57'$ $\text{V.A. - ref.} = 25^\circ 50' 30''$ $\text{Lat.} = 33^\circ 19' 02''$ $\text{Decl.} = 19^\circ 41' 54''$									
			Cos. Lat. = 9.922026	Sin. Decl. = 9.527718				3 - 45 - 55	Lat. 33° 19' 02"
			Cos. Alt. = 9.954244					3 - 47 - 15	Long. 110° 41' 28"
			$\frac{9.876270}{9.876270}$					3 - 46 - 35	
			Tan. lat. = 9.617768						
			Tan. alt. = 9.685129						
			$\frac{9.502897}{9.502897}$						
									Cos. Q = $\frac{.318344}{.766519}$
									Q = 39° 57' 28"

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АВАНС = 0,00
 ПЛЮС = 0,00
 ИТОГО = 0,00

ОСТАТОК = 0,00

ОСТАТОК = 0,00
 ПЛЮС = 0,00
 ИТОГО = 0,00

Итого = 0,00
 А.А.Т
 02 03 = 0,00
 03 04 = 0,00
 04 05 = 0,00

Итого = 0,00
 01 02 = 0,00
 02 03 = 0,00
 03 04 = 0,00

Итого = 0,00
 01 02 = 0,00
 02 03 = 0,00
 03 04 = 0,00

Итого = 0,00
 01 02 = 0,00
 02 03 = 0,00
 03 04 = 0,00

Итого = 0,00
 01 02 = 0,00
 02 03 = 0,00
 03 04 = 0,00

Итого = 0,00
 01 02 = 0,00
 02 03 = 0,00
 03 04 = 0,00

APPROVAL

Office of the United States Surveyor General,

Phoenix, Arizona, March 9, 1915.

The foregoing field notes of Homestead Entry Survey No.

118,

F. H. Chadwick,

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.