

U. S. DEPARTMENT OF AGRICULTURE  
FOREST SERVICE

JUN 30 1915

**FIELD NOTES**

OF

HOMESTEAD ENTRY SURVEY NO. 214

SITUATED IN THE

APACHE NATIONAL FOREST

ADMINISTRATIVE DISTRICT NO. 3

in

Section 34, unsurveyed, Township 4 $\frac{1}{2}$  N., Range 31 E.

Section 35, unsurveyed, Township 4 $\frac{1}{2}$  N., Range 31 E.

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of the

Gila and Salt River Base and Meridian.

ARIZONA

O.K.

Survey executed by C. A. Long, Surveyor-Forest Service

Under special instructions dated August 6, 1914

Survey commenced October 31, 1914

Survey completed November 4, 1914

Under Acts of June 11, 1906 and June 30, 1914.

Applicant for listing C. V. Perry,

Residence Alpine, Arizona.

Application No. 13, dated September 23, 1906

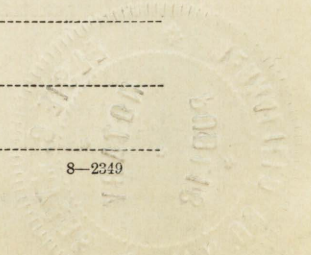
List No. 755, dated December 2, 1907

Applicant for survey C. V. Perry,

Residence Alpine, Arizona.

H. E. No. 05302, dated March 19, 1909

Land district Phoenix, Arizona.



OATH OF ASSISTANTS

We hereby certify that we assisted C. A. Long,  
Surveyor-Forest Service in surveying all those  
 parts or portions of Homestead Entry Survey No. 214, in  
unsurveyed Section 34, Township 4 $\frac{1}{2}$  N., Range 31 E.,  
unsurveyed Section 35, Township 4 $\frac{1}{2}$  N., Range 31 E.,  
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 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 expensive and incon-  
 venient to appear before  
 an officer to administer  
 the oaths to Assistants;  
 hence, they were taken by  
 the Surveyor.

Wm. R. Warner, Chainman.  
Fred Turley, Chainman.  
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Subscribed and sworn to before me this 4th day of  
November, 1914.

C. A. Long  
Surveyor-Forest Service.

OATH OF SURVEYOR

I, C. A. Long, Surveyor-Forest Service, do solemnly swear  
 that, in strict conformity with the special instructions of  
 the United States Surveyor General for Arizona, dated  
August 6, 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. 755, dated Dec. 2, 1907, for  
Patent, under the Act of June 11, 1906,  
 the same to be known as Homestead Entry Survey No. 214,  
 situated within the APACHE National Forest, in  
unsurveyed Section 34, Township 4 $\frac{1}{2}$  N., Range 31 E., and  
unsurveyed Section 35, Township 4 $\frac{1}{2}$  N., Range 31 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.

C. A. Long  
Surveyor-Forest Service.

Subscribed and sworn to before me this 23rd day of  
April, 1915.

Elmer C. Myers  
Nutary Public



APACHE NATIONAL FOREST

STATE OF ARIZONA

Chains

Applicant for listing, C. V. Perry; Application No. 13, dated September 23, 1906. List No. 755 dated December 2, 1907. H. E. No. 05302, made at Phoenix, Arizona on March 19, 1909.

Surveyed under Special instructions from the Surveyor General for Arizona dated August 6, 1914, and designated as Homestead Entry Survey No. 214.

Situated in what will probably be, when surveyed, Secs. 34 and 35, T. 4-1/2 N. R. 31 E., Gila and Salt River Base and Meridian, Apache National Forest, Arizona.

Surveyed under the Acts of June 11, 1906 and June 30, 1914.

Survey commenced October 31, 1914, and executed with a W. & L. E. Gurley light mountain transit No. 11920,

provided with a full vertical circle and a horizontal limb having two double verniers placed opposite each other and reading to single minutes of arc, which is also the least reading of the vernier on the vertical circle.

I test the adjustments of the transit and make necessary corrections.

All measurements were made on the slopes with a 500 link steel tape and the slope angles were determined with a clinometer, the horizontal distances alone appearing in these notes.

October 31, 1914.

At apparent noon, I observe the altitude of the sun's upper limb at Cor. No. 1 for Latitude, the observed greatest altitude was 42° 32'.

APACHE NATIONAL FOREST

STATE OF ARIZONA

Chains  
 Observed altitude 42° 32' 00"  
 Refraction 01' 03"  
 Semi Diameter 16' 09"  
 Corrected Altitude 42° 14' 48"  
 Parallax +06"  
 42° 14' 54"  
 Sun's declination 14° 01' 37"  
 56° 16' 31" = Co. Lat.  
 90° 00' 00"  
 33° 43' 29" = Latitude.

November 1, 1914.

At Cor. No. 1 of this survey, I observe the altitude of the sun for azimuth. The sun is to the left of reference mark. My watch is set for local mean time. I observe the sun in the upper left, lower right, upper right and lower left quadrants of the field. Longitude by account from Land Office map is 109° 07' W. Latitude by observation 33° 43' 29" N.

(1)

Telescope	l.m.t.	Vertical Angle	Horizontal Angle
Direct	1h. 55m. 10s.	32° 48' 00"	71° 01' 30"
Reversed	1h. 57m. 06s.	32° 00' 00"	69° 55' 40"
Means	1h. 56m. 08s.	32° 24' 00"	70° 28' 35"

(2)

Direct	1h. 59m. 06s.	32° 18' 00"	69° 26' 00"
Reversed	2h. 00m. 40s.	31° 32' 00"	69° 43' 30"
Means	1h. 59m. 53s.	31° 55' 00"	69° 34' 45"

Bearing of reference mark by (1) N. 70° 29' 31" W.  
 Bearing of reference mark by (2) N. 70° 30' 47" W.  
 Mean N. 70° 30' 09"

and to the corresponding meridian all the courses of this survey are referred.

APACHE NATIONAL FOREST

STATE OF ARIZONA

Chains. November 1, 1914.

At Cor. No. 1 of this survey at 5 o'clock P. M. the magnetic bearing of the true meridian is N. 13° 15' W., which gives the mean magnetic declination 13° 15' E.

November 3, 1914.

At Cor. No. 1 of this survey, I put the telescope of my instrument in the meridian and note the watch time of the sun's passage over the vertical cross wire for time.

	Telescope	Watch Time
West limb	Direct	11h. 41m. 43s.
East limb	Reversed	11h. 43m. 58s.
	Mean	11h. 42m. 55s.
Watch time		11h. 42m. 55s.
Equation of time	+16m. 21s.	
	11h. 59m. 16s.	
Apparent noon	12h. 00m. 00s.	
	00m. 44s. watch slow on l.m.t.	

November 1, 1914.

There being no approved public land corners, U. S. Mineral or U. S. Location Monuments within the prescribed limits, I establish U. S. L. M. 214 H. E. S. on a prominent knoll 80 ft. above cor. No. 1, H. E. S. 214. I cut a cross at the apex of a basalt stone in place showing 60 x 30 x 24 ins. above ground and U. S. L. M. 214 H. E. S. on north side. Owing to sloping ground, stone mound impracticable, whence,

A yellow pine 16 ins. dia., bears N. 52° 03' E., 15 lks. dist.

A yellow pine 14 ins. dia., bears S. 73° 25' W., 23 lks. dist.

A yellow pine 20 ins. dia., bears S. 22° 30' W., 40 lks. dist.

APACHE NATIONAL FOREST

STATE OF ARIZONA

Chains

Each blazed and scribed U S L M 214 H E S B T.

The Cor. to Secs. 25, 30, 31 and 36, T. 4-1/2 N.

on the range line between Rs. 31 and 32 E., which

is a standard iron post marked and witnessed as

described by the Surveyor General bears N. 72° 04'

E. 138.82 chs. dist. by traverse, which appears

at the end of these notes.

November 1, 1914.

I begin at list cor. No. 8, which is a granite stone

18 x 16 x 7 ins. above ground, marked and witnessed as

described by the Forest Service. I destroy it and

witnesses thereto, and set a lava stone 24 x 12 x 8 ins.

14 ins. in the ground, over a stone marked with a cross

(+) for cor. No. 1 of this survey, marked 1-HES214 on

side facing claim and a cross (+) on top. Pits and

mounds impracticable, whence,

A nail in a yellow pine 16 ins. dia., bears

S. 29° 41' W. 149 lks. dist.

A nail in a yellow pine 16 ins. dia., bears S.

87° 40' E., 119 lks. dist.

Each blazed and scribed 1 H E S 214 B T.

U. S. L. M. 214 H. E. S. heretofore described

bears S. 28° 21' E. 3.14 chs. dist.

The SW. cor. of Sec. 30, T. 4-1/2 N. R. 32 E.

heretofore described bears N. 73° 20' E.

139.43 chs. dist. by traverse which appears

at the end of these notes.

Thence S. 89° 29' W.

Through edge of scattering oak and pine, along foot of

steep hillside facing North.

APACHE NATIONAL FOREST

STATE OF ARIZONA

Chains

0.05 Corner of pole and brush fence, from which fences bear  
S. 28° 21' E., S. 73° 00' W. and N. 05° 52' W.

5.85 Pole fence bears S. 28° 00' E.

5.93 To Cor.. No. 2.

Identical with list cor. No. 7, which is a granite stone  
14 x 10 x 8 ins. above ground, marked and witnessed  
as described by the Forest Service. I destroy it and  
witnesses thereto and set a basalt stone 25 x 14 x 7

ins. 15 ins. in the ground, over a stone marked with  
a cross (+) for cor.. No. 2 of this survey, marked  
2-HES214 on side facing claim and a cross (+) on top.  
Pits and mounds impracticable; whence,

A nail in a post-oak 8 ins. dia., bears S. 03°  
46' W. 45 lks. dist.

A nail in a yellow pine 18 ins. dia., bears S.  
85° 24' E. 93 lks. dist.

Each blazed and scribed 2 H E S 214 B T.

Thence N. 75° 15' W.

Over gently rolling land, along foot of steep hillside,  
through edge of scattering oak and pine. Pole and wire  
fence is 3 lks. North and bears with line.

7.00 Campbell Blue river is 150 lks. north of line.

14.41 To Cor.. No. 3.

Identical with list cor. No. 6, which is a boulder  
22 x 14 x 14 ins. above ground, marked and witnessed  
as described by the Forest Service. I destroy it and  
witnesses thereto and set a basalt stone 23 x 14 x 9  
ins. 13 ins. in the ground, over a stone marked with a  
cross (+) for cor. No. 3 of this survey; marked

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6.

HOMESTEAD ENTRY SURVEY NO. 214

APACHE NATIONAL FOREST

STATE OF ARIZONA

Chains	<p>3-HES214 on side facing claim and a cross (+) on top.</p> <p>Pits and mounds impracticable, whence,</p> <p>A nail in a white oak 18 ins. dia., bears</p> <p style="padding-left: 40px;">S. 17° 10' E. 32 lks. dist.</p> <p>A nail in a yellow pine 36 ins. dia., bears</p> <p style="padding-left: 40px;">S. 66° 03' W. 44 lks. dist.</p> <p>Each blazed and scribed 3 H E S 214 B T.</p> <p>(No larger stone available for corner).</p> <hr/> <p>Thence S. 58° 01' W.</p> <p>Along foot of rocky bluff, through edge of scattering pine and oak.</p>
0.10	Pole fence bears S. 10° 00' W.
17.00	Dry wash, 10 lks. wide, banks 5 ft. high, course N. 18° 00' E.
21.76	<p>To Cor. No. 4.</p> <p>Identical with list cor. No. 5, which is a sandstone 12 x 12 x 8 ins. above ground, marked and witnessed as described by the Forest Service. I destroy it and witnesses thereto, and set a basalt stone 29 x 16 x 10 ins., 19 ins. in the ground, over a stone marked with a cross (+) for Cor. No. 4 of this survey, marked</p> <p>4-HES214 on side facing claim and a cross (+) on top.</p> <p>Pits and mounds impracticable, whence,</p> <p>A nail in a yellow pine 18 ins. dia., bears</p> <p style="padding-left: 40px;">N. 80° 43' E. 104 lks. dist.</p> <p>A nail in a white oak 22 ins. dia., bears S.</p> <p style="padding-left: 40px;">84° 27' W. 37 lks. dist.</p> <p>Each blazed and scribed 4 H E S 214 B T.</p> <hr/> <p>Thence S. 88° 06' W.</p> <p>Over gentle rolling land, along edge of scattering pine.</p>



APACHE NATIONAL FOREST  
STATE OF ARIZONA

Chains	
0.50	Pole cut-off fence bears N. 13° 30' W.
0.60	Wire fence is 30 lks. south and bears with line.
11.42	To Cor. No. 5.
	Identical with list cor. No. 4, which is a sandstone 18 x 16 x 8 ins. above ground, marked and witnessed as described by the Forest Service. I destroy it and witnesses thereto and set a basalt stone 22 x 18 x 9 ins. 12 ins. in the ground, over a stone marked with a cross (+) for Cor. No. 5 of this survey marked 5-HES214 on side facing claim and a cross on top. Dig pits 24 x 24 x 12 ins. crosswise on this and the succeeding courses 7 ft. dist. and raise a mound of stone and earth 3 ft. base, 2 ft. high, 3-1/2 ft. dist. within the claim, whence, A nail in a yellow pine 22 ins. dia., bears N. 32° 15' W. 16 lks. dist. A nail in a yellow pine 13 ins. dia., bears S. 89° 43' W. 25 lks. dist. Each blazed and scribed 5 H E S 214 B T. (No larger stone available for corner). Thence N. 85° 22' W. Over level land through edge of scattering pine. 1.30 Pole fence bears N. 84° 30' W. and S. 84° 30' E. 4.50 Descend 8 ft. 4.75 Foot of slope. 4.99 To Cor. No. 6. Identical with list cor. No. 3, which is a sandstone 16 x 10 x 7 ins. above ground, marked and witnessed as described by the Forest Service. I destroy it and witnesses thereto, and set a basalt stone 24 x 14 x 5 ins. 14 ins. in the ground, over a stone marked with a cross (+) for Cor. No. 6 of this survey, marked 6-HES214 on side facing claim and a cross (+) on top.

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Chains

Dig pits 24 x 24 x 12 ins. crosswise on this and the succeeding course 7 ft. dist. and raise a mound of earth and stone 3 ft. base, 2 ft. high, 3-1/2 ft. dist.

within claim, whence,

A nail in a yellow pine 14 ins. dia., bears S. 87° 12' E. 47 lks. dist.

A nail in a yellow pine 28 ins. dia., bears S. 31° 41' W. 52 lks. dist.

Each blazed and scribed 6 H E S 214 B T.

Thence S. 69° 27' W.

Over open level land, along foot of hillside sloping to North. Fence is 50 lks. North and bears with line.

0.05 Cut-off fence bears N. 05° 00' W.

7.32 To Cor. No. 7.

Identical with list cor. No. 2, which is a sandstone 14 x 14 x 6 ins. above ground, marked and witnessed as described by the Forest Service. I destroy it and witnesses thereto, point falls on a white sandstone in place, showing 40 x 30 x 3 ins. above ground, I mark a cross (+) for exact point for cor. No. 7 of

this survey and 7-HES214 on side facing claim. Pits impracticable. Raise a mound of stone 3 ft. base,

2 ft. high, 3-1/2 ft. dist. within claim, whence,

A nail in a yellow pine 28 ins. dia. bears N. 74° 00' E. 30 lks. dist.

A nail in a yellow pine 26 ins. dia., bears S. 40° 56' W. 78 lks. dist.

Each blazed and scribed 7 H E S 214 B T.

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STATE OF ARIZONA

Chains	<p>November 2, 1914.</p> <p>Thence N. 81° 50' W.</p> <p>Over open level bottom land along foot of hill. Pole fence is 3 lks. North and bears with line.</p> <p>0.50 Dry wash, 5 lks. wide, banks 5 ft. high, course N. 28° 00' E.</p> <p>1.00 Dry wash, 15 lks. wide, banks 3 ft. high, course N. 25° 00' E.</p> <p>10.38 To Cor. No. 8.</p> <p>Identical with list cor. No. 1, which is a granite stone in place showing 36 x 30 x 30 ins. above ground, marked and witnessed as described by the Forest Service. I destroy the marks and witnesses that refer to this list survey and mark a cross (+) at the apex of the same stone for Cor. No. 8 of this survey and 8-HES214 on side facing claim. Pits and mounds impracticable, whence,</p> <p>A nail in a yellow pine 30 ins. dia., bears S. 52° 20' W. 97 lks. dist.</p> <p>A nail in a blackjack pine 12 ins. dia., bears S. 85° 04' W. 62 lks. dist.</p> <p>Each blazed and scribed 8 H E S 214 B T.</p> <hr/> <p>Thence N. 53° 13' W.</p> <p>Over open land along foot of hill sloping NE. Fence is 2 lks. North and runs with line.</p> <p>1.00 Dry wash, 15 lks. wide, banks 5 ft. high, course N. 58° 00' E.</p> <p>3.43 To Cor. No. 9.</p> <p>Identical with list cor. No. 18, which is a granite stone 14 x 10 x 8 ins. above ground, marked and wit-</p>
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APACHE NATIONAL FOREST

STATE OF ARIZONA

Chains

nessed as described by the Forest Service. I destroy it and witnesses thereto, and set a basalt stone 33 x 14 x 15 ins., 23 ins. in the ground, over a stone marked with a cross (+) for Cor. No. 9 of this survey marked 9-HES214 on side facing claim and a cross (+) on top. Dig pits 24 x 24 x 12 ins. crosswise on this and the succeeding course 7 ft. dist. and raise a mound of earth and stone 3 ft. base, 2 ft. high, 3-1/2 ft. dist. within claim, whence,

A nail in a white oak 16 ins. dia., bears S.

33° 31' W. 45 lks. dist.

A nail in a yellow pine 20 ins. dia., bears N.

58° 43' W. 152 lks. dist.

Each blazed and scribed 9 H E S 214 B T.

Thence N. 07° 50' W.

Over open land along fence. Descend 25 ft. to creek.

3.00 Leave fence bearing east. Bottom of slope.

3.25 Campbell Blue River, 40 lks. wide, 1 ft. deep, banks 3 ft. high, course East.

6.00 Ascend 45 ft. to Cor.

11.35 To Cor. No. 10.

Identical with list cor. No. 17, which is a lava stone in place showing 30 x 14 x 12 ins. above ground, I destroy marks and witnesses thereto that refer to the list survey and mark a cross (+) at the apex of the same stone for Cor. No. 10 of this survey and marked 10-HES214 on side facing claim. Pits impracticable. Raise a mound of stone 3 ft. base, 2 ft. high, 3-1/2 ft. dist. within claim, whence,

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Chains

A nail in a yellow pine 18 ins. dia., bears

S. 59° 53' W. 132 lks. dist.

A nail in a yellow pine 20 ins. dia.; bears

N. 43° 30' W. 145 lks. dist.

Each blazed and scribed 10 H E S 214 B T.

Thence S. 79° 30' E.

Through scattering pine, descend 35 ft.

16.00 Dry wash, 5 lks. wide, banks 5 ft. high, course S. 25°  
00' E.

21.25 To Cor. No. 11.

Identical with list cor. No. 16, which is a lava stone,  
in place showing 24 x 16 x 8 ins. above ground, marked  
and witnessed as described by the Forest Service. I  
destroy the marks and witnesses that refer to the list  
survey and cut a cross (+) at the apex of the same  
stone for Cor. No. 11 of this survey and marked  
11-HES214 on side facing claim. Dig pits 24 x 24 x 12  
ins. crosswise on this and the succeeding course 7 ft.  
dist. and raise a mound of earth and stone 3 ft. base,  
2 ft. high, 3-1/2 ft. dist. within claim, whence,

A nail in a yellow pine 16 ins. dia., bears

N. 11° 36' W. 51 lks. dist.

A nail in a yellow pine 18 ins. dia., bears

S. 28° 18' W. 32 lks. dist.

Each blazed and scribed 11 H E S 214 B T.

Thence N. 83° 06' E.

Through scattering pine, over level land.

0.05 Cor. of wire fence bears S. 3 lks. from which fences run  
S. 15° 00' E. and N. 83° 06' E.

6.00 North bank of Campbell Blue River is 5 lks. south of line.

Chains	
10.50	Dry wash, 10 lks. wide, banks 6 ft. high, course S. 40° 00' E.
12.00	Ascend 20 ft. to cor.
13.87	To Cor. No. 12. Identical with list cor. No. 15, which is a granite stone 16 x 12 x 10 ins. above ground, marked and witnessed as described by the Forest Service. I destroy it and witnesses thereto, and set a lava stone 24 x 12 x 5 ins. 14 ins. in the ground, over a stone, marked with a cross (+) for Cor. No. 12 of this survey marked 12-HES214 on side facing claim and a cross (+) on top. Pits impracticable. Raise a mound of stone 3 ft. base, 2 ft. high and 3-1/2 ft. dist. within claim, whence, A nail in a yellow pine 16 ins. dia., bears S. 22° 04' E. 13 lks. dist. A nail in a yellow pine 8 ins. dia., bears S. 75° 06' W. 47 lks. dist. Each blazed and scribed 12 H E S 214 B T.
	Thence N. 69° 36' E. Over rolling land, through scattering pine. Wire fence is 3 lks. south and bears with line.
2.93	Descend steep rocky slope 15 ft.
4.00	Foot of slope.
4.20	Ascend 25 ft.
5.23	Top of slope.
6.00	Descend steep rocky slope 25 ft.
6.30	End of fence.

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STATE OF ARIZONA

Chains	
6.60	Foot of slope.
6.80	Ascend 35 ft.
8.00	Top of ascent. Continue over rolling land.
8.63	To Cor. No. 13.
	<p>Identical with list Cor. No. 14, which is a granite stone 16 x 12 x 12 ins. above ground, marked and witnessed as described by the Forest Service. I destroy it and witnesses thereto, and set a lava stone 24 x 16 x 10 ins. 14 ins. in the ground, over a stone marked with a cross (+) for Cor. No. 13 of this survey marked 13-HES214 on side facing claim and a cross (+) on top. Dig pits 24 x 24 x 12 ins. crosswise on this and the succeeding course 7 ft. dist. and raise a mound of earth and stone 3 ft. base, 2 ft. high, 3-1/2 ft. dist. within claim, whence,</p> <p>A nail in a yellow pine 16 ins. dia., bears N. 21° 13' W. 62 lks. dist.</p> <p>A nail in a yellow pine 16 ins. dia., bears N. 39° 34' E. 59 lks. dist.</p> <p>Each blazed and scribed 13 H E S 214 B T.</p>
	<p>Thence N. 53° 44' E.</p> <p>Over rolling land, through scattering pine, along top of steep bluff which is 50 lks. south of line.</p>
8.00	Descend steep rocky slope 30 ft.
9.50	Foot of slope. Continue over level land.
10.01	To Cor. No. 14.
	<p>Identical with list cor. No. 13, which is a white sandstone in place showing 27 x 16 x 8 ins. above ground marked and witnessed as described by the Forest Service. I destroy the marks on this stone and the witnesses thereto that refer to the list survey and</p>

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STATE OF ARIZONA

Chains

mark a cross (+) at the apex of the same stone for  
Cor. No. 14 of this survey marked 14-HES214 on the side  
facing claim. Pits and mounds impracticable, whence,

A nail in a yellow pine 22 ins. dia., bears  
S. 80° 15' E. 21 lks. dist.

A nail in a yellow pine 34 ins. dia., bears  
S. 38° 30' W. 99 lks. dist.

Each blazed and scribed 14 H E S 214 B T.

A cross (+) on a white sandstone ledge 5 ft. above  
ground marked 14 H E S 214 B O bears S. 85° 53'  
W. 75 lks. dist.

Thence N. 19° 34' W.

Ascend gentle slope 10 ft. through scattering pine. A  
white sandstone bluff is 100 lks. west of line.

6.75 Pole fence, bears S. 83° 40' E. and S. 60° 00' W.

6.83 To Cor. No. 15.

Identical with list cor. No. 12, which is a granite  
stone 15 x 12 x 10 ins. above ground, marked and wit-  
nessed as described by the Forest Service. I destroy  
it and witnesses thereto and set a lava stone 30 x 18  
x 12 ins., 20 ins. in the ground, over a stone marked  
with a cross (+) for Cor. No. 15 of this survey marked  
15-HES214 on side facing claim and a cross (+) on top.  
Dig pits 24 x 24 x 12 ins. crosswise on this and the  
succeeding course, 7 ft. dist. and raise a mound of  
earth and stone 3 ft. base, 2 ft. high, 3-1/2 ft. dist.  
within claim, whence,

A nail in a yellow pine 19 ins. dia., bears  
S. 56° 42' E. 33 lks. dist.

A nail in a yellow pine 24 ins. dia., bears  
S. 17° 29' W. 92 lks. dist.

Each blazed and scribed 15 H E S 214 B T.



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STATE OF ARIZONA

Chains  
 November 3, 1914.  
 Thence S. 83° 40' E.  
 Descend 15 ft. through scattering pine. Fence is 10 lks. south and bears with line.  
 2.48 Dry wash, 15 lks. wide, 15 ft. deep, course S. 33° 00' E.  
 7.50 Dry wash, 15 lks. wide, 10 ft. deep, course S. 10° 00' W.  
 8.00 Bottom of descent.  
 8.50 Ascend 25 ft. to cor.  
 11.48 To Cor. No. 16.  
 Point falls on a basalt stone in place showing 40 x 30 x 14 ins. above ground, I mark a cross (+) at the apex of the same stone, and 16-HES214 on side facing claim for Cor. No. 16 of this survey. Pits and mounds impracticable, whence,  
 A nail in a yellow pine 14 ins. dia., bears N. 04° 35' W. 14 lks. dist.  
 A nail in a yellow pine 20 ins. dia., bears S. 29° 38' W. 86 lks. dist.  
 Each blazed and scribed 16 H E S 214 B T.  
 List Cor. No. 11, which is a boulder 3 x 2 x 18 ins. above ground marked and witnessed as described by the Forest Service bears N. 10 lks. dist. which I destroy and witnesses thereto.  
 Thence S. 42° 20' E.  
 Descend 10 ft. over open land.  
 0.10 Enter corral.  
 4.00 Leave corral.  
 6.09 To Cor. No. 17.  
 Identical with list cor. No. 10, which is a granite stone 16 x 12 x 8 ins. above ground, marked and witnessed as described by the Forest Service. I destroy

Chains

it and witnesses thereto and set a granite stone 26 x 20 x 12 ins. 16 ins. in the ground, over a stone marked with a cross (+) for Cor. No. 17 of this survey, marked 17-HES214 on side facing claim and a cross (+) on top.

Pits and mounds impracticable, whence,

A nail in a yellow pine 22 ins. dia., bears N. 24° 59' E. 157 lks. dist.

A nail in a yellow pine 30 ins. dia., bears N. 33° 50' W. 131 lks. dist.

Each blazed and scribed 17 H E S 214 B T.

Thence S. 70° 30' E.

Descend 10 ft. to cor. along south side of dry wash.

Pole fence is 3 lks. south and bears with line.

12.03 To Cor. No. 18.

Identical with list cor. No. 9, which is a granite stone 14 x 13 x 9 ins. above ground, marked and witnessed as described by the Forest Service. I destroy it

and witnesses thereto, and set a basalt stone 24 x 14 x 6 ins., 14 ins. in the ground, over a stone marked with a cross (+) for Cor. No. 18 of this survey marked 18-HES214 on side facing claim and a cross (+) on top.

Pits and mounds impracticable, whence,

A nail in a yellow pine 22 ins. dia., bears N. 05° 47' W. 99 lks. dist.

A nail in a white oak 10 ins. dia., bears S. 64° 30' E. 101 lks. dist.

Each blazed and scribed 18 H E S 214 B T.

Thence S. 05° 52' E.

Over open land, along pole fence which is 3 lks. west of line. Descend 15 ft. to creek.

APACHE NATIONAL FOREST  
STATE OF ARIZONA

Chains  
3.00 Campbell Blue River 40 lks. wide, 1 ft. deep, course E.  
3.50 Ascend 25 ft. to Cor.  
7.72 To Cor. No. 1, the place of beginning.

AREA

Area of H. E. S. No. 214 82.47 Acres

IMPROVEMENTS

The improvements made upon and for the benefit of this claim and belonging to the claimant herein consist of the following:

Log barn, 20 x 20 ft. course of sides N. and S., the SE. cor. of which bears from Cor. No. 16, S. 80° 00' W.

3.30 chs. dist. Value \$ 50.00

Log barn, 26 x 30 ft. course of long sides E. and W., the NE. cor. of which bears from Cor. No. 16, S. 75° 30' W.

3.10 chs. dist. Value \$ 125.00

Log chicken house, 10 x 16 ft. course of long sides N. and S., the NE. cor. of which bears from Cor. No. 16, S. 48° 46' W.

3.18 chs. dist. Value \$ 25.00

Log store house, 12 x 18 ft., course of long sides E. and W., the NE. Cor. of which bears from Cor. No. 16, S. 37° 15' W.

4.32 chs. dist. Value \$ 25.00

Log dwelling, L shaped, 32 ft. on west, 32 ft. on south, 16 ft. on east and 16 ft. on North side, course of long sides east and west, the NE. Cor. of which bears from cor. No. 16, S. 24° 08' W.

4.30 chs. dist. Value \$ 500.00

Chains About 2-1/2 miles of pole and barbed wire fencing. Value \$250.00  
 Total value of improvements. \$975.00

DESCRIPTION

This claim is located in a narrow valley on both sides of the Campbell Blue River. The soil along the river is a loose sandy loam, very fertile, producing good crops of corn, oats, beans and potatoes.

Campbell Blue river runs through the claim, it is a perennial stream 35 lks. wide and about 1 ft. deep, which furnishes sufficient water for all purposes.

Most of the claim is enclosed within a poor fence of poles and barbed wire and the greater portion of the land has been under cultivation.

There is no evidence of precious minerals on the claim. A small amount of merchantable timber (Yellow Pine) is found between the river and line 10-11.

Alpine, the nearest postoffice and trading center lies about 14 miles in a northeasterly direction and is reached by a rough mountain trail.

CONFLICTS AND ADJOINING CLAIMS.

There are no conflicts or adjoining claims.

APACHE NATIONAL FOREST

STATE OF ARIZONA

Chains

Traverse from U. S. L. M. 214 H. E. S. to the SW.  
cor. of Sec. 30, T. 4-1/2 N. R. 32 E.

Course	Dist.	N.	S.	E.	W.
N. 28° 21' W.	3.14	2.76			1.49
N. 71° 05' E.	5.87	1.90		5.55	
N. 77° 15' E.	25.21	5.56		24.59	
N. 73° 42' E.	9.78	2.74		9.39	
N. 72° 26' E.	13.09	3.95		12.48	
N. 83° 35' E.	16.36	1.83		16.26	
N. 76° 36' E.	15.94	3.69		15.51	
S. 83° 34' E.	35.00		3.92	34.78	
N. 42° 47' E.	23.65	17.36		16.06	
N. 00° 45' E.	3.20	3.20		0.04	
N. 16° 33' W.	3.83	3.67			1.09 to
	155.07	46.66	3.92	134.66	2.58
		3.92		2.58	
		42.74		132.08	

sec.  
cor.

from this traverse, I compute the bearing and distances  
to the SW. cor., Sec. 30, T. 4-1/2 N., R. 32 E., as  
being N. 72° 04' E., 138.82 chs. distant. T.A.

Boundaries of H. E. S. No. 214.

No.	Course	Dist.	N.	S.	E.	W.
1-2	S. 89° 29' W.	5.93		0.05		5.93
2-3	N. 75° 15' W.	14.41	3.67			13.94
3-4	S. 58° 01' W.	21.76		11.53		18.46
4-5	S. 88° 06' W.	11.42		0.38		11.41
5-6	N. 85° 22' W.	4.99	0.40			4.97
6-7	S. 69° 27' W.	7.32		2.57		6.85
7-8	N. 81° 50' W.	10.38	1.47			10.27
8-9	N. 53° 13' W.	3.43	2.05			2.75
9-10	N. 07° 50' W.	11.35	11.24			1.55
10-11	S. 79° 30' E.	21.25		3.87	20.89	
11-12	N. 83° 06' E.	13.87	1.67		13.77	
12-13	N. 69° 36' E.	8.63	3.01		8.09	
13-14	N. 53° 44' E.	10.01	5.92		8.07	
14-15	N. 19° 34' W.	6.83	6.44			2.29
15-16	S. 83° 40' E.	11.48		1.27	11.41	
16-17	S. 42° 20' E.	6.09		4.50	4.10	
17-18	S. 70° 30' E.	12.03		4.02	11.34	
18- 1	S. 05° 52' E.	7.72		7.68	0.79	
		188.90	35.87	35.87	78.46	78.42
					78.42	
					.04	

Error in Lat. and Dep.

Error of closure = 1.4722

Survey completed November 4, 1914.

*C. Long*  
Surveyor - Forest Service.

Chains

Traverse from U. S. L. M. 214 H. E. S. to the SW.

cor. of sec. 30, T. 4-1/2 N. R. 32 E.

Course Dist. N. S. W.

Course	Dist.	N.	S.	W.
N. 10° 33' W.	3.83	3.67		
N. 00° 43' E.	3.20		3.20	
N. 42° 47' E.	23.66	17.36		
S. 83° 34' E.	35.00		3.92	
N. 76° 36' E.	15.94	3.69		
N. 82° 33' E.	15.35	1.83		
N. 78° 33' E.	13.09	3.95		
N. 73° 42' E.	9.78	2.74		
N. 77° 13' E.	25.21	5.55		
N. 71° 02' E.	5.87	1.90		
N. 28° 21' W.	3.14	2.76		
<b>Total</b>	<b>188.07</b>	<b>48.88</b>	<b>3.92</b>	<b>134.86</b>
		<b>48.71</b>		<b>132.08</b>

from this traverse, I compute the bearing and distances to the SW. cor., Sec. 30, T. 4-1/2 N., R. 32 E., as being N. 73° 04' E., 138.82 chs. distant.

Boundaries of H. E. S. No. 214.

No. Course Dist. N. S. W.

1-2	S. 89° 29' W.	5.93	0.05	
2-3	N. 78° 15' W.	14.41	3.67	
3-4	S. 58° 01' W.	21.75	11.52	
4-5	S. 88° 05' W.	11.48	0.38	
5-6	N. 85° 32' W.	4.92	0.40	
6-7	S. 69° 27' W.	7.32	3.27	
7-8	N. 81° 50' W.	16.38	1.47	
8-9	N. 53° 12' W.	3.43	3.05	
9-10	N. 07° 50' W.	11.35	11.24	
10-11	S. 79° 30' E.	21.23	2.87	30.89
11-12	N. 83° 08' E.	12.87	1.67	13.77
12-13	N. 69° 39' E.	8.63	3.01	8.08
13-14	N. 53° 44' E.	10.01	5.92	8.07
14-15	N. 19° 34' W.	6.83	6.44	
15-16	S. 32° 40' E.	11.48	1.27	11.41
16-17	S. 42° 20' E.	6.09	4.30	4.10
17-18	S. 70° 20' E.	12.03	4.02	11.24
18-1	S. 05° 22' E.	7.72	7.68	0.79
<b>Total</b>		<b>188.90</b>	<b>55.87</b>	<b>78.45</b>
				<b>78.42</b>
				<b>.04</b>

Error of closure = 1.4722

Error in Lat. and Dep.

Survey completed November 4, 1914.

Surveyor - Forest Service.

*[Handwritten Signature]*

APACHE NATIONAL FOREST

STATE OF ARIZONA

Chains

Azimuth Computation

(1)

Date of observation, November 1, 1914

Longitude, 109° 07' W. (By account from Land Office Map).

Latitude 33° 43' 29" N.

L. m. t. of obsn. 1h. 56m. 08s.

Apparent time of obsn. 2h. 12m. 27s.

Observed vertical angle 32° 24' 00"

Reduced " 32° 22' 30"

Sun's declination S. 14° 22' 49"

Horizontal Angle 70° 28' 35"

(Sun is to the left of reference mark).

$$\text{Cos. A.} = \frac{\text{Sin. } 14^\circ 22' 49''}{\text{Cos. } 33^\circ 43' 29'' \times \text{Cos. } 32^\circ 22' 30''} - (\text{Tan. } 33^\circ 43' 29'' \times \text{Tan. } 32^\circ 22' 30'')$$

$$\text{Log. Sin. } 14^\circ 22' 49'' = 9.3950755$$

$$\text{9.8466056}$$

$$\underline{\text{9.5484699}} = \text{Log. } -.35357$$

$$\text{Log. Cos. } 33^\circ 43' 29'' = 9.9199743$$

$$\text{" " } 32^\circ 22' 30'' = 9.9266313$$

$$\underline{\text{9.8466056}}$$

$$\text{Log. Tan. } 33^\circ 43' 29'' = 9.8244777$$

$$\text{" " } 32^\circ 22' 30'' = 9.8020943$$

$$\underline{\text{9.6265720}} = \text{Log. } -.42323$$

-.35357 -.42323 = -.77680 = Nat. Cos. of the bearing of sun, S. 39° 01' 54" W., and the bearing of the reference mark is N. 70° 29' 31" W.

(2)

Date of observation, November 1, 1914.

Latitude and Longitude as stated.

L. m. t. of obsn. 1h. 59m. 53s.

Apparent time of obsn. 2h. 16m. 12s.

Observed vertical angle 31° 55' 00"

Reduced " " 31° 53' 28"

APACHE NATIONAL FOREST

STATE OF ARIZONA

Chains

Sun's declination S. 14° 22' 52"  
 Horizontal angle 69° 34' 45"  
 (The sun is to left of reference mark).  
 Cos. A. =  $\frac{\text{Sin. } 14^\circ 22' 52''}{\text{Cos. } 33^\circ 43' 29'' \times \text{Cos. } 31^\circ 53' 28''}$  - (Tan.

33° 43' 29" X Tan. 31° 53' 28" )

Log. Sin 14° 22' 52" = 9.3951001  
 9.8489094  
 9.5461907 = Log. -.351720

Log. Cos. 33° 43' 29" = 9.9199743  
 " " 31° 53' 28" = 9.9289351  
 9.8489094

Log. Tan. 33° 43' 29" = 9.8244777  
 " " 31° 53' 28" = 9.7939509  
 9.6184286 = Log. -.41536

-.35172 -.41536 = -.76708 = Nat. Cos. of the bearing of  
 the sun, S. 39° 54' 28" W., and the bearing of reference

mark is N. 70° 30' 47" W. The mean of these two obser-  
 vations is N. 70° 30' 09" W.

Log. Sin. 14° 22' 52" = 9.3951001  
 9.8489094  
 9.5461907 = Log. -.351720

Log. Cos. 33° 43' 29" = 9.9199743  
 " " 31° 53' 28" = 9.9289351  
 9.8489094

Log. Tan. 33° 43' 29" = 9.8244777  
 " " 31° 53' 28" = 9.7939509  
 9.6184286 = Log. -.41536

-.35172 -.41536 = -.76708 = Nat. Cos. of the bearing  
 of sun, S. 39° 54' 28" W., and the bearing of the  
 reference mark is N. 70° 30' 09" W.

(2)

Date of observation, November 1, 1914.

Latitude and Longitude as stated.

I. M. J. of obs. In. 53m. 53s.

Apparent time of obs. 2h. 15m. 13s.

Observed vertical angle 31° 53' 00"

Reduced " " 31° 53' 28"



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.

C. V. Perry - Apache

TABLING AND CALCULATIONS OF HOMESTEAD ENTRY SURVEY NO. 214, STATE OF ARIZONA

CORNERS.	BEARING.	DISTANCE.	LATITUDES.		DEPARTURES.		DOUBLE M. D.	N. AREAS.	S. AREAS.		
			NORTH.	SOUTH.	EAST.	WEST.					
1-2	S. 89° 29' W.	5.93		05		5	93	146	37	7	32
2-3	N. 75° 15' W.	14.41	3	67		13	94	126	49	464	22
3-4	S. 58° 01' W.	21.76			11	53	46	94	07	1094	63
4-5	S. 88° 06' W.	11.42		38		11	41	64	19	24	39
5-6	N. 85° 22' W.	4.99	40			4	97	47	81	19	12
6-7	S. 69° 27' W.	7.32		57		6	85	35	99		
7-8	N. 81° 50' W.	10.38	1	47		10	27	18	87	27	74
8-9	N. 53° 13' W.	3.43	2	05		2	75	5	85	11	99
9-10	N. 07° 50' W.	11.35	11	24		1	55	1	55	17	42
10-11	S. 79° 30' E.	21.25			3	87		20	88		
11-12	N. 83° 06' E.	13.87	1	67		13	77	55	53	92	74
12-13	N. 69° 36' E.	8.63	3	01		8	09	77	39	232	94
13-14	N. 53° 44' E.	10.01	5	92		8	07	93	55	553	82
14-15	N. 19° 34' W.	6.83	6	44				99	33	639	69
15-16	S. 83° 40' E.	11.48			1	27		108	45		
16-17	S. 42° 20' E.	6.09			4	50		123	96	137	73
17-18	S. 70° 30' E.	12.03			4	02		139	39	557	82
18-1	S. 05° 52' E.	7.72			7	68		151	51	560	35
		188.90	35	87	35	87	78	46	78	2059	68
			35	87	35	87	78	44	78	2059	68
										20) 1649	46
										82.473	Acres.

T.H.



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. 214, STATE OF ARIZONA

CORNERS.	BEARING.	DISTANCE.	LATITUDES.		DEPARTURES.		DOUBLE M. D.	N. AREAS.	S. AREAS.
			NORTH.	SOUTH.	EAST.	WEST.			
Traverse from Cor. No. 1 to the SW. Cor. of Sec. 30, T. 4-1/2 N., R. 32 E.									
	N. 71° 05' E.	5.87	1 90		5 55				
	N. 77° 15' E.	25.21	5 56		24 59				
	N. 73° 42' E.	9.78	2 74		9 39				
	N. 72° 26' E.	13.09	3 95		12 48				
	N. 83° 35' E.	16.36	1 83		16 26				
	N. 76° 36' E.	15.94	3. 69		15 51				
	S. 83° 34' E.	35.00		3 92	34 78				
	N. 42° 47' E.	23.65	17 36		16 06				
	N. 00° 45' E.	3.20	3 20		0 04				
	N. 16° 33' W.	3.83	3 67		1 09				
		151.93	43 90	3 92	134 66	1 09			
			3 92		1 09				
			39 98		133 57				
From this traverse I compute the bearing and distance from Cor. No. 1 to the SW. Cor.									
Sec. 30, T. 4-1/2 N., R. 32 E., as being N. 73° 20' E. 139.43 chains.									



APPROVAL

Office of the United States Surveyor General,

Phoenix, Arizona, April 29 1916 .

The foregoing field notes of Homestead Entry Survey No.

214

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executed by C. A. Long, Surveyor-Forest Service  
under his special instructions, dated August 6, 1914,  
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 P. Trott*  
-----  
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.

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Frank P. Trott  
U. S. Surveyor General.