

U. S. DEPARTMENT OF AGRICULTURE
FOREST SERVICE

JUL 31 1916

65
AUG 30 1915

OCT 26 1917

FIELD NOTES

OF

HOMESTEAD ENTRY SURVEY NO. 235

SITUATED IN THE

APACHE NATIONAL FOREST

ADMINISTRATIVE DISTRICT NO. 3

in

Approximately
Section 7, un surveyed, Township 2 S., Range 31 E.

of the

Gila and Salt River Base and Meridian.

ARIZONA

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

Under special instructions dated August 6, 1914

Survey commenced December 1, 1914

Survey completed December 3, 1914

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

Applicant for listing J. E. Hewett,

Residence Clifton, Arizona.

Application No. 164, dated June 19, 1911

List No. 3-1571, dated November 8, 1911

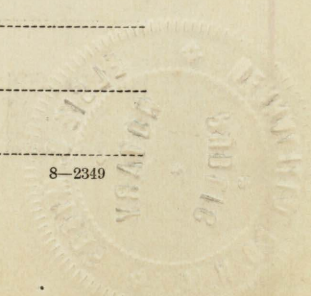
Applicant for survey George L. Stacy,

Residence Clifton, Arizona.

H. E. No. 022280, dated April 28, 1913.

Office.

Land district Phoenix, Arizona.



66

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. 235 in
unsurveyed Section 7, Township 2 S., Range 31 E.,
---surveyed Section ---, Township ---, Range ---,

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
oaths to Assistants; hence,
they were taken by the Sur-
veyor.

Wm Wanner, Chainman
Fred Turley, Chainman

Subscribed and sworn to before me this 3rd day of
December, 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. 3-1571, dated Nov. 8, 1911, for
Patent, under the Act of June 11, 1906,
the same to be known as Homestead Entry Survey No. 235,
situated within the APACHE National Forest, in
unsurveyed Section 7, Township 2 S., Range 31 E., and
---surveyed Section ---, Township ---, Range ---,

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.

Elsie C. Myers
Notary Public



HOMESTEAD ENTRY SURVEY NO. 235

APACHE NATIONAL FOREST

STATE OF ARIZONA.

Chains

Applicant for listing, J. E. Hewett, Application No. 164, dated June 19, 1911. List No. 3-1571, dated November 8, 1911. H. E. No. 022280, made at Phoenix, Arizona by George L. Stacy, dated April 28, 1913.

Surveyed under Special instructions from the Surveyor General for Arizona, dated August 6, 1914, and designated as Homestead Entry Survey No. 235.

Situated in what will probably be, when surveyed, Sec. 7, T. 2 S., R. 31 E., G.&S.R.B.&M., Apache National Forest Arizona.

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

Survey commenced December 1, 1914, and executed with a W. and L. E. Gurley light mountain transit, No. 11920, provided with a vertical circle and 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.

December 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 the reference mark. The sun was observed in the upper left, lower right, upper right and lower left quadrants of the field. My watch is set for local mean time.

Longitude by account from Land Office map is 109° 11' 45" W.

Latitude by observation, 33° 16' 40" N.

HOMESTEAD ENTRY SURVEY NO. 235

APACHE NATIONAL FOREST

STATE OF ARIZONA.

Chains	Telescope	l.m.t.	Vertical angle	Horizontal angle
			(1)	
	Direct	8h. 53m. 09s.	21° 24' 00"	40° 24' 00"
	Reversed	8h. 54m. 50s.	21° 05' 00"	40° 39' 20"
	Means	8h. 54m. 00s.	21° 14' 30"	40° 31' 40"
			(2)	
	Direct	8h. 56m. 18s.	21° 51' 00"	40° 22' 00"
	Reversed	8h. 57m. 50s.	21° 31' 00"	39° 28' 30"
	Means	8h. 57m. 04s.	21° 41' 00"	39° 55' 15"
	Bearing of reference mark by (1)		S. 02° 34' 35" E.	
	Bearing of reference mark by (2)		S. 02° 34' 01" E.	
	Mean		S. 02° 34' 18" E.	

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

December 1, 1914.

At Cor. No. 1 of this survey at apparent noon, I observe the altitude of the sun's upper limb to be 35° 14' 20". From this observation, I compute the latitude to be 35° 16' 40" N.

Observed altitude	35° 14' 20"
Refraction	- 1' 22"
Sun's semi-diam.	-16' 15.3
	<u>34° 56' 42.7</u>
Parallax	+ 07.0
	<u>34° 56' 49.7</u>
Sun's declination +	<u>21° 46' 30.3</u>
	56° 43' 20.0 = co. lat.
	<u>90° 00' 00.0</u>
	35° 16' 40" = Latitude.

December 2, 1914.

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

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STATE OF ARIZONA

Chains	Telescope	Watch Time
Sun's west limb	Direct	11h. 46m. 00s.
Sun's east limb	Reversed	<u>11h. 48m. 30s.</u>
	Mean	11h. 47m. 15s.
Watch time		11h. 47m. 15s.
Equation of time	+ 10m. 44s.	<u>11h. 57m. 59s.</u>
App. Noon		<u>12h. 00m. 00s.</u>
Watch slow on l.m.t.,		02m. 01s.

December 1, 1914.

There being no public land corners, U. S. Mineral or U. S. Location Monuments within the prescribed limits, I establish U. S. L. M. No. 235 H. E. S. on the south end of a prominent spur overlooking Blue River, and about 12 chs. east of same. I cut a cross (+) at the apex of a lava stone in place showing 28 x 24 x 20 ins. above ground and U S L M No 235 H E S on the west side of the same stone; and raise a mound of stone 6 ft. base, 5 ft. high alongside, whence:

A juniper, 10 ins. dia., bears S. 58° 22' W.,
211 lks. dist.

A juniper, 8 ins. dia., bears N. 58° 40' W.
90 lks. dist.

Each blazed and scribed U S L M 235 H E S B T.

December 1, 1914.

Beginning at cor. No. 1.

Identical with list cor. No. 2, which is a malpais stone 36 x 24 x 18 ins. above ground, marked and witnessed as described by the Forest Service. I destroy it and witnesses thereto, and set a red granite stone 23 x 13 x 9 ins.; (no larger stone available); 13 ins. in the ground, over a stone marked with a cross (+), marked 1 - H E S 235 on side facing claim and a cross (+) on top. Raise a mound of stone 3 ft. base, 2 ft. high,

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Chains

3-1/2 ft. dist. within claim.

No bearing trees available. Pits impracticable.

U. S. L. M. 235 H. E. S., heretofore described,

bears N. 78° 27' E. 16.86 chs. dist.

Cor. No. 1 H. E. S. 234, bears S. 76° 56' E.,

48.53 chs. dist.

The magnetic bearing of the true meridian at 3:00 p.m. is N. 8° 00', which gives the mean magnetic declination 8° 02' E.

Thence N. 84° 06' W.

Over gently rolling land through scattering mesquite brush. Four wire fence is 5 lks. north and bears with line.

18.10 To cor. No. 2.

Identical with list cor. No. 1, which is a wash boulder 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 red granite boulder 24 x 18 x 10 ins. 14 ins. in the ground, over a stone marked with a cross, marked 2 - H E S 235 on side facing claim and a cross (+) on top. No bearing trees available. Pits impracticable. Raise a mound of stone 3 ft. base, 2 ft. high, 3-1/2 ft. dist. within claim.

December 2, 1914.

Thence N. 5° 21' W.

Over open gently rolling land, along edge of scattering mesquite brush. Four wire fence is 5 lks. East, and bears with line.

17.64 To cor. No. 3.

Identical with list cor. No. 6, which is a malpais stone 6 x 8 x 12 ins. above ground, marked and witness-

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STATE OF ARIZONA

Chains

ed as described by the Forest Service. I destroy it and witnesses thereto, and set a granite stone 26 x 10 x 9 ins., 16 ins. in the ground, over a stone marked with a cross (+) for cor. No. 3 of this survey, marked 3 - H E S 235 on side facing claim and a cross (+) on top. No bearing trees available. Pits impracticable. Raise a mound of stone 3 ft. base, 2 ft. high, 3-1/2 ft. dist. within claim.

Thence N. 36° 37' E.

Over open land, along rim of canyon.

1.00 Four wire fence bears N. 31° 50' E. and S. 31° 50' W.

16.68 To cor. No. 4.

Identical with list cor. No. 5, which is a malpais stone 22 x 6 x 6 ins. above ground, marked and witnessed as described by the Forest Service. I destroy it and witnesses thereto, and set a granite boulder 28 x 10 x 12 ins., 18 ins. in the ground, over a stone marked with a cross (+) for cor. No. 4 of this survey, marked 4 - H E S 235 on side facing claim and a cross (+) on top. Pits impracticable. Raise a mound of stone 3 ft. base, 2 ft. high, 3-1/2 ft. dist. within claim, whence:

A juniper, 12 ins. in dia., bears N. 11° 28' E.

66 lks. dist., blazed and scribed 4-H-E-S 235 B T.

No other bearing trees within prescribed limits.

Thence S. 76° 38' E.

Over open level land, along edge of steep rocky bluff overlooking Blue River.

5.54 To cor. No. 5.

Identical with list cor. No. 4, which is a malpais stone 18 x 12 x 8 ins. above ground, marked and witnessed as described by the Forest Service. I destroy

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Chains it and witnesses thereto and set a granite boulder 36 x 26 x 14 ins., 26 ins. in the ground, over a stone marked with a cross (+) for cor. No. 5 of this survey marked 5 - H E S 235 on side facing claim and a cross (+) on top. Pits impracticable. Raise a mound of stone 3 ft. base, 2 ft. high, 3-1/2 ft. dist. within claim. No bearing trees available.

Thence S. 32° 42' E.

5.98 Over open level land along edge of rocky bluff overlooking Blue River.

To Cor. No. 6.

Identical with list Cor. No. 3, which is a malpais stone 14 x 8 x 8 ins. above ground, marked and witnessed as described by the Forest Service. I destroy it and witnesses thereto and set a granite boulder 25 x 17 x 9 ins. 15 ins. in the ground, over a stone marked with a cross (+) for Cor. No. 6 of this survey, marked 6 - H E S 235 on side facing claim and a cross (+) on top. No bearing trees available. Pits impracticable. Raise a mound of stone 3 ft. base, 2 ft. high, 3-1/2 ft. dist. within claim, whence:

U. S. L. M. 235 H. E. S. bears S. 37° 22' E. 29.05

chs. dist., by direct measurement.

Thence S. 2° 25' E.

Over level land through scattering mesquite, along edge of steep rocky bluff overlooking Blue River.

26.49 To Cor. No. 1, the place of beginning.

AREA

Area of H. E. S. No. 235 - - - - - 50.66 acres.

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Chains

Conflicts and Adjoining Claims.

There are no conflicts or adjoining claims. H.E.S.No.234
Fred A. Stacy, lies S. 76° 56' E., 48.53 chs. from cor.
No. 1 of this claim, by traverse, details of which
are hereto attached.

Improvements.

A tent over a wooden frame and board floor, 12 x 14 ft.
course of long sides east and west, the SW. cor. of
which bears from Cor. No. 2 N. 82° 19' E. 6.92 chs.
dist.

Value \$25.00

3/4 mile barbed wire fencing

Value \$60.00

Total value of improvements

\$85.00

Description

This claim is situated on a level mesa covered with a
scattering growth of mesquite brush, and about 250
ft. above the bed of Blue River.

The soil is a light brown gravelly porous loam, 2nd rate,
about 4 acres have been cultivated heretofore producing
a scant crop of sorghum.

A good four wire fence encloses the claim on the south-
west and northwest side, while the steep bluffs along
the river form a natural barrier on the other side.

There is no water, timber or mineral on the claim. Water
for domestic use is obtained from the Blue River. There
is no one living on the claim, and judging from appear-
ances no one has lived there for sometime.

Clifton, the County Seat of Greenlee County on the A. &
N.M.R.R. is the nearest postoffice and trading center
and lies about 25 miles in a southerly direction and
is reached by a rough wagon road running down the Blue
River.

Chains

Traverses.

Boundaries of H.E.S. No. 235.

No.	Course.	Dist.	N.	S.	E.	W.	
1-2	N. 84° 06' W.	18.10	1.86			18.00	
2-3	N. 05° 21' W.	17.64	17.56			1.64	
3-4	N. 36° 37' E.	16.68	13.39		9.95		
4-5	S. 76° 38' E.	5.54		1.28	5.39		
5-6	S. 32° 42' E.	5.98		5.03	3.23		
6-1	S. 02° 25' E.	26.49	26.47		1.12		
			90.43	32.81	32.78	19.69	19.64
				32.78		19.64	
Error in Lat. and Dep.				.03		.05	
Error of closure 1:1551							

Traverse from Cor. No. 1 H.E.S.No. 235 to Cor. No. 1 H.E.S. No. 234.

Course.	Dist.	N.	S.	E.	W.	
N. 78° 27' E.	16.86	3.37		16.52		
S. 75° 26' E.	33.01		8.30	31.95		
S. 59° 12' E.	4.54		2.32	3.90		
S. 53° 54' W.	6.31		3.72		5.10	
		60.72	3.37	14.34	52.37	5.10
				3.37	5.10	
			10.97	47.27		

from this traverse I compute the bearing and distance to cor. No. 1, H.E.S.No. 234 as being S. 76° 56' E., 48.53 chs. dist.

Survey completed, December 3, 1914.

C. Long
Surveyor-Forest Service.

A good four wire fence encloses the claim on the south and northwest side, while the steep bluffs along the river form a natural barrier on the other side. There is no water, timber or mineral on the claim. Water for domestic use is obtained from the Blue River. There is no one living on the claim, and nothing from appear- since no one has lived there for sometime. Clifton, the County Seat of Greenlee County on the A. & M.M.R.R. is the nearest postoffice and trading center and lies about 25 miles in a southerly direction and is reached by a rough wagon road running down the Blue River.

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Azimuth Computation at Cor. No. 1 H.E.S. 235.

Date of observation, (1) December 1, 1914.

Longitude 109° 11' 45" W. (By account from Land Office map.)

Latitude 33° 16' 40" N.

Local mean time of observation 8h. 54m. 00s.

Apparent time of observation 9h. 05m. 06s.

Observed vertical angle 21° 14' 30"

Reduced vertical angle 21° 12' 03"

Sun's declination 21° 45' 20"

Horizontal angle 40° 31' 40"

(Sun is to the left of reference mark.)

$$\text{Cos. A.} = \frac{\text{Sin. } 21^\circ 45' 20''}{\text{Cos. } 33^\circ 16' 40'' \times \text{Cos. } 21^\circ 12' 03''} \text{ (Tan. } 33^\circ 16' 40'' \times \text{Tan. } 21^\circ 12' 03'')$$

$$\begin{aligned} \text{Log. Sin. } 21^\circ 45' 20'' &= 9.5689610 \\ &\underline{9.8917811} \\ &9.6771799 = \text{Log. } -.47553 \end{aligned}$$

$$\begin{aligned} \text{Log. Cos. } 33^\circ 16' 40'' &= 9.9222168 \\ \text{Log. Cos. } 21^\circ 12' 03'' &= \underline{9.9695643} \\ &9.8917811 \end{aligned}$$

$$\begin{aligned} \text{Log. Tan. } 33^\circ 16' 40'' &= 9.8171171 \\ \text{Log. Tan. } 21^\circ 12' 03'' &= \underline{9.5887099} \\ &9.4058270 = \text{Log. } -.25458 \end{aligned}$$

-.47553-.25458 = -.73011 = Nat. Cos. of the bearing of the sun, S. 43° 06' 15" E, and the bearing of reference mark is S. 02° 34' 35" E.

(2)

Longitude 109° 11' 45"

Latitude 33° 16' 40" N.

Local mean time of observation 8h. 57m. 04s.

Apparent time of observation 9h. 08m. 10s.

Observed vertical angle 21° 41' 00"

Reduced vertical angle 21° 38' 36"

Sun's declination 21° 45' 22"

Horizontal angle 39° 55' 15"

(Sun is to the left of reference mark.)

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Cos. A. = $\frac{\text{Sin. } 21^{\circ} 45' 22''}{\text{Cos. } 33^{\circ} 16' 40'' \times \text{Cos. } 21^{\circ} 38' 36''}$ - (Tan.

Log. Sin. $21^{\circ} 45' 22'' = 9.5689716$
 $\frac{9.8904651}{9.6785065} = \text{Log. } -.47699$

Log. Cos. $33^{\circ} 16' 40'' = 9.9222168$
 Log. Cos. $21^{\circ} 38' 36'' = 9.9682483$
 $\frac{9.8904651}{9.9682483} = \text{Log. } -.0777832$

Log. Tan. $33^{\circ} 16' 40'' = 9.8171171$
 Log. Tan. $21^{\circ} 38' 36'' = 9.5985751$
 $\frac{9.8171171}{9.5985751} = \text{Log. } .2185420$

$-.47699 - .2185420 = -.6955319 = \text{Nat. Cos. of the bearing of the sun, S. } 42^{\circ} 29' 16'' \text{ E, and the bearing of reference mark is S. } 02^{\circ} 34' 01'' \text{ E. and the mean of these two observations is S. } 02^{\circ} 34' 18'' \text{ E.}$

$\frac{\text{Cos. } 33^{\circ} 16' 40'' \times \text{Cos. } 21^{\circ} 38' 36''}{\text{Cos. } 33^{\circ} 16' 40'' \times \text{Cos. } 21^{\circ} 38' 36''} = \text{Cos. A.}$

$\frac{\text{Log. Sin. } 21^{\circ} 45' 22''}{\text{Log. Cos. } 33^{\circ} 16' 40'' \times \text{Log. Cos. } 21^{\circ} 38' 36''} = \text{Log. Tan. A.}$

$\frac{\text{Log. Tan. } 33^{\circ} 16' 40''}{\text{Log. Tan. } 21^{\circ} 38' 36''} = \text{Log. Tan. A.}$

$\frac{\text{Log. Cos. } 33^{\circ} 16' 40''}{\text{Log. Cos. } 21^{\circ} 38' 36''} = \text{Log. Cos. A.}$

$\frac{\text{Log. Sin. } 33^{\circ} 16' 40''}{\text{Log. Sin. } 21^{\circ} 38' 36''} = \text{Log. Sin. A.}$

the sun, S. $42^{\circ} 29' 16''$ E, and the bearing of reference mark is S. $02^{\circ} 34' 01''$ E.

(2)
 Latitude $33^{\circ} 16' 40''$ N.
 Longitude $109^{\circ} 11' 43''$
 Local mean time of observation
 Apparent time of observation
 Observed vertical angle
 Reduced vertical angle
 Sun's declination
 Horizontal angle
 (Sun is to the left of reference mark.)

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.

George L. Stacy - Apache

TABLING AND CALCULATIONS OF HOMESTEAD ENTRY SURVEY NO. 235, STATE OF ARIZONA

CORNERS.	BEARING.	DISTANCE.	LATITUDES.		DEPARTURES.		DOUBLE M. D.	N. AREAS.		S. AREAS.
			NORTH.	SOUTH.	EAST.	WEST.				
1-2	N. 84° 06' W.	18.10	1 85 1 86			18 00 18 01	21 31	39 42		
2-3	N. 05° 21' W.	17.64	17 56 13 38		9 94	1 64	1 65	28 97		
3-4	N. 36° 37' E.	16.68	13 39		9 95		9 94	133 00		
4-5	S. 76° 38' E.	5.54		1 28	5 39		25 27		32 35	
5-6	S. 32° 42' E.	5.98		5 03 26 48	3 23		33 88		170 42	
6-1	S. 02° 25' E.	26.49		26 47	1 12		38 21		1011 80	
		<u>90.43</u>	32 81	32 78	19 69	19 64		201 39	1214 57	
			32 79	32 79	19 66	19 66			201 39	
								20) 1013 18	50.659-50.66A.	
										T.A.

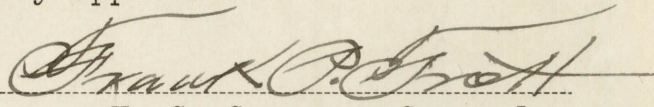
APPROVAL

Office of the United States Surveyor General,
Phoenix, Arizona, April 2, 1917.

The foregoing field notes of Homestead Entry Survey No.

235

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.



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 P. Trott
U. S. Surveyor General.