

151

OCT-21916

U. S. DEPARTMENT OF AGRICULTURE
FOREST SERVICE

OCT. 26 1917
RECEIVED
U. S. FOREST SERVICE

FIELD NOTES

OF

HOMESTEAD ENTRY SURVEY NO. 227

SITUATED IN THE

APACHE NATIONAL FOREST

ADMINISTRATIVE DISTRICT NO. 3

in

Section 6, --surveyed, Township 3 S., Range 30 E.

(Survey awaiting approval)

Approximately
Section 1, unsurveyed, Township 3 S., Range 29 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 7, 1914

Survey completed December 10, 1914

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

Applicant for listing Harland Walker,

Residence Metcalf, Arizona.

Application No. 151, dated February 27, 1911

List No. 3-1455, dated September 25, 1911

Applicant for survey Harland Walker,

Residence Metcalf, Arizona.

H. E. No. 017866, dated June 29, 1912.

Office Land district Phoenix, Arizona.

152

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. 227, in
-- surveyed Section 6, Township 3 S., Range 30 E. (Awaiting ap-
un surveyed Section 1, Township 3 S., Range 29 E., proval)

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.

John Reamer, Chairman.

Fred Turley, Chairman.

Subscribed and sworn to before me this 14 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 3-1455, dated Sept. 25, 1911, for
Patent, under the Act of June 11, 1906,
the same to be known as Homestead Entry Survey No. 227,
situated within the APACHE National Forest, in
-- surveyed Section 6, Township 3 S., Range 30 E., and (Awaiting ap-
un surveyed Section 1, Township 3 S., Range 29 E., proval)

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 11th day of
January, 1915.



8-2249

Elsie C. Myers
Notary Public

HOMESTEAD ENTRY SURVEY NO. 227

1.

153

APACHE NATIONAL FOREST

STATE OF ARIZONA

Chains Applicant for listing, Harland Walker; Application No. 151, dated February 27, 1911; List No. 3-1455, dated September 25, 1911; H. E. No. 017866, made at Phoenix, Arizona, on June 29, 1912.

Surveyed under special instructions from the Surveyor General for Arizona, dated August 6, 1914 and designated as Homestead Entry Survey No. 227.

(S) Situated in surveyed Sec. 6, T. 3 S., R. 30 E., (awaiting approval) and in unsurveyed Sec. 1, T. 3 S., R. 29 E., Gila and Salt River Base and Meridian, Arizona.

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

Survey commenced December 7, 1914 and executed with a W. and L. E. Gurley light mountain transit No. 11920 provided with a full 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 count of vertical circle readings.

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

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

December 7, 1914.

At cor. No. 1 of this survey, I observe the altitude of the sun for azimuth. The sun is to right of reference mark. The reading on reference mark is set at zero and the sun 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 ac-

HOMESTEAD ENTRY SURVEY NO. 227

APACHE NATIONAL FOREST

STATE OF ARIZONA

Chains count from Land Office map is $109^{\circ} 19' 30''$ N.W. 1/4
 betw. 22d-3.00 sec. 1st m. 1st s. 1st f. 1st (1) S. visurde betw. 1st

Telescope 38810 l.m.t. .H. II Vertical angle Horizontal
 Angle Angle

Direct 2h. 20m. 08s. $23^{\circ} 59'$ $117^{\circ} 40'$

Reversed 2h. 21m. 26s. $23^{\circ} 16' 20''$ $117^{\circ} 21'$

Mean 2h. 20m. 47s. $23^{\circ} 57' 40''$ $117^{\circ} 30' 30''$

(2)

Direct 2h. 22m. 54s. $23^{\circ} 37' 30''$ $117^{\circ} 39' 20''$

Reversed 2h. 24m. 52s. $22^{\circ} 53' 00''$ $118^{\circ} 33' 30''$

Mean 2h. 23m. 53s. $23^{\circ} 15' 15''$ $118^{\circ} 06' 25''$

Bearing of reference mark by (1) S. $79^{\circ} 26' 23''$ E.

Bearing of reference mark by (2) S. $79^{\circ} 26' 31''$ E.

The mean of these is S. $79^{\circ} 26' 27''$ E.

At cor. No. 1 of this survey I put the telescope of my

December 7, 1914.

At cor. No. 1 of this survey at 11h. 51m. 17s., l.m.t.,
 I observe the meridian altitude of the sun's upper
 limb for latitude observed vertical angle is $34^{\circ} 29'$.

From this observation I calculate the latitude to be
 $33^{\circ} 13' 01''$ N.

December 8, 1914.

At cor. No. 1 of this survey I put the telescope of my
 transit in the meridian and observe the watch time of
 the passage of the sun west and east limbs over the ver-
 tical crosswire for time, telescope direct and reverse.

Sun's west limb 11h. 49m.

Sun's east limb 11h. 51m. 20s. = watch time of ap-
 parent noon to 11h. 50m. 10s. = equation of time.

+ 08m. 17s. = apparent noon, watch slow on l.m.t.

12h. 00m. 00s. = apparent noon, watch slow on l.m.t.

0lm. 33s.

Blift ent to atmosphere the lower limb 11h. 51m. 20s.

-as to 11h. 51m. 20s. - as to 11h. 50m. 10s. - as to 11h. 51m. 20s.

APACHE NATIONAL FOREST

STATE OF ARIZONA

Chains

December 8, 1914. I arsed bedrobed

Preliminary to commencing the Homestead Entry Survey, I retrace the public land line intersected by the claim. Beginning at the 1/4 cor. on the west boundary of Sec. 6, T. 3 S., R. 30 E.; (awaiting approval) which is an iron post firmly set, marked and witnessed as described by the Surveyor General, I run S. 00° 01' W. on a true line along the west boundary of Sec. 6, the cor. to Secs. 1, 6, 7, and 12, being plainly visible, setting temporary stakes at appropriate points for future reference.

39.90

The cor. to Secs. 1, 6, 7 and 12, an iron post firmly set, marked and witnessed as described by the Surveyor General.

There being no approved public land corners within the prescribed limits to tie the claim to, I establish U. S. L. M. No. 227 H. E. S. on the south point of a vertical rock bluff on the N. side and 300 ft. above Sardine Creek. I mark a cross at the apex of a lava stone in place showing 30 x 24 x 18 ins. above ground, U. S. L. M. No. 227 H. E. S. on N. face; and raise a mound of stone 6 ft. base, 4 ft. high, NW. of point, whence:

A pinon 10 ins. dia., bears N. 25° 24' W., 47 lks. dist.

A pinon 10 ins. dia., bears N. 07° 34' W., 58 lks. dist.

A pinon 8 ins. dia., bears N. 16° 53' E., 18 lks. dist.

Each blazed and scribed U S L M 227 H E S B T.

The 1/4 cor. on west boundary Sec. 6, heretofore

APACHE JOSHUA NATIONAL FOREST

STATE OF ARIZONA STATE

Chains	described, bears N. $73^{\circ} 40'$ E., 46.83 chs. dist. by traverse, details of which are hereto attached.
	I begin at list cor. No. 6, which is a malpais stone
	6 x 8 x 12 ins. above ground, marked and witnessed
	as described by the Forest Service. I set an octagonal
	iron rod 20 x 3/4 ins., 6 ins. in the solid rock for
	cor. No. 1 of this survey and raise a mound of stone
	around corner point. In the center of mound and over
	the iron rod, I place a lava stone 27 x 10 x 6 ins.,
	marked 1-HES227 on side facing claim. Pits and mounds
	impracticable, whence:
	A cross (+) on a conglomerate rock ledge marked
	1 H E S 227 B O bears W. 4 lks. dist.
	U. S. L. M. No. 227 H. E. S. heretofore described
	bears S. $64^{\circ} 10'$ E., 18.32 chs. dist.
	No other bearings available.
	Mag. decl. at 10:30 a.m., 15° E. Mean Mag. Decl. $14^{\circ} 58'$ E.
	Thence East.
	Descending abrupt slope through scattering pinon and
	undergrowth of scrub oak and chaparral. Scant soil
	covering on slope.
1.80	Arroyo, 10 lks. wide, course S. $20^{\circ} 00'$ E., 70 ft. below point of descent.
1.90	Ascend, steep rocky slope.
6.06	Top of ridge, 110 ft. above point of ascent, bears S.
	40° E. and N. 40° W.
6.30	Begin to descend.
7.75	Bottom of arroyo, 10 lks. wide, bears S. $50^{\circ} 00'$ E., 65 ft. below top of ridge.
7.90	Ascend.

APACHE NATIONAL FOREST

STATE OF ARIZONA

Chains			
11.00	Top of ridge bears S. 25° 00' E. 80 ft. above point of ascent. Continue over eroded rocky land.	ascend	
14.00	Descend abrupt rocky slope.		
17.00	Bottom of arroyo, 10 lks. wide, 115 ft. below point of descent.		06.1
17.10	Ascend		00.8
19.50	Top of low spur, 55 ft. above point of ascent.		
19.60	Descend.		02.7
21.00	Arroyo, 10 lks. wide, course S. 05° 00' W. 70 ft. below point of descent.		
21.20	Ascend.		
28.00	Top of ridge, 95 ft. above point of ascent. Continue over rolling rocky land.		
61.43	To Cor. No. 2 and closing corner on line bet. Secs. 1 and 6. Point falls on sloping rock ledge, set a half of an iron horse shoe in the solid rock for Cor. No. 2 of this survey and a lava stone 26 x 10 x 8 ins. over the exact point for cor. marked C C on W. face and 2-HES227 on S. face with a cross (+) on top. Raise a mound of stone around cor. whence,		
	A pinon 5 ins. dia., bears N. 50° 37' W. 17 lks. dist.		
	A pinon 10 ins. dia., bears S. 14° 17' E., 130 lks. dist.		
	A pinon 10 ins. dia., bears S. 19° 53' W. 159 lks. dist.		
	Each blazed and marked C C 2 H E S 227 B T.		
	The cor. of Secs. 1, 6, 7 and 12, heretofore described bears S. 0° 01' W. 34.71 chs. dist.		
	and the 1/4 cor. to Secs. 1 and 6, heretofore described, bears N. 0° 01' E. 5.19 chs. dist.		06.8
	Pits and mounds impracticable.		00.0

APACHE NATIONAL FOREST

STATE OF ARIZONA

Chains	Thence East
	to thioq evods. ft. 08 W. 00° 00' S. 8 sised egsit to qot 00.11 Descend rocky slope bare of soil through scattering pinon.
1.30	Bottom of arroyo, 10 lks. wide, 50 ft. below beginning of descent.
1.50	Ascend
5.00	Top of ascent 75 ft. above point of ascent. Leave scat- tering pinon.
7.27	To Cor. No. 3. Set a shale stone 20 x 10 x 7 ins. marked 3-HES227 on SW. face and cross (+) on top for Cor. No. 3 of this survey and raise a mound of stone around cor. (Impos- sible to set stone in ground) whence, A pinon 6 ins. dia., bears S. 66° 14' W. 76 lks. dist. A pinon 5 ins. dia., bears N. 12° 06' W. 107 lks. dist. A pinon 6 ins. dia., bears N. 27° 20' E., 63 lks. dist. Each blazed and marked 3 H E S 227 B T. List cor. No. 5, a malpais rock 6 x 10 x 12 ins. above ground, marked and witnessed as described by the Forest Service bears S. 05° 00' W. 30 lks. dist. which I destroy and witnesses thereto. Note: A stone of prescribed dimensions was not available for this corner.
	Thence South
8.50	Bottom of descent, 213 ft. below cor. No. 3.
9.00	Sardine Creek, 10 lks. wide, 1 ft. deep, flows east. This is a stream of good clear water and flows the entire year.

APACHE NATIONAL FOREST

STATE OF ARIZONA

- Chains .elcitoenqmi abnuc lns atiq .tencoo bawots enote
9.50 Ascend steep slope through dense undergrowth of oak brush
 and chaparral to Cor. No. 4, 450 ft. above Sardine
 Creek. .taib .ail ss
- 20.00** To Cor. No. 4. .W '68 °16' N erased .sib .ail 8 moniq A
 Set a lava stone 23 x 14 x 12 ins. in a mound of stone
 (unable to set in ground owing to rock) marked 4-HES227
 on side facing claim and cross (+) on top. Pits and
 mounds impracticable, whence,
 A pinon 8 ins. dia. bears S. 49° 20' W.
 95 lks. dist.
 A pinon 6 ins. dia. bears S. 68° 16' E.
 46 lks. dist.
 A pinon 8 ins. dia. bears S. 79° 05' E.
 75 lks. dist.
 Each blazed and marked 4 H E S 227 B T.
 No larger stone for corner available.
 List cor. No. 4, which is a malpais rock 6 x 8
 x 8 ins. above ground, marked and witnessed
 as described by the Forest Service bears S.
 02° 00' W. 35 lks. dist. which I destroy and
 witnesses thereto.
- Thence West
- Along north slope of hillside covered with dense oak
 brush.
- 3.00** Descend steep rocky slope, 175 ft.
- 7.28** To Cor. No. 5, and closing cor. on line bet. Secs. 1 and
 6.
 Set a malpais stone 30 x 20 x 13 ins. over a half of
 an iron horse shoe driven in solid rock to mark exact
 point for cor. marked C C on E. side and 5-HES227
 on N. side and cross (+) on top and raise a mound of

STATE OF ARIZONA STATE

Chains stone around corner. Pits and mounds impracticable, 08.0
 David also to arroyos several diagonal across creek 08.0
 whence, 08.0
 exhibiting evads. At 08.0 + 00' to 00' or later grade has
 A pinon 8 ins. dia., bears N. 11° 09' W. 00.08
 82 lks. dist. 00.08
 A pinon 8 ins. dia., bears N. 31° 25' W. 00.08
 about to bottom 8 ft. and 31 x 11 x 88 about 8 ft.
 91 lks. dist. 00.08
 A pinon 10 ins. dia. bears S. 87° 28' W. 00.08
 32 lks. dist. 00.08
 Each blazed and marked C C 5 H E S 227 B T. 00.08
 The Cor. to Secs. 1, 6, 7 and 12, heretofore des-
 cribed, bears S. 0° 01' W. 14.71 chs. dist. 00.08
 The 1/4 cor. to Secs. 1 and 6, heretofore des-
 cribed bears N. 0° 01' E. 25.19 chs. dist. 00.08

Thence West

- Descend 15 ft. to arroyo.
- 0.20 Arroyo, 10 lks. wide, course N. 15° 00' W. Ascend.
- 1.00 Top of spur, 85 ft. high, continue along N. slope covered with dense oak brush.
- 3.00 Descend.
- 4.00 Arroyo, 15 lks. wide, course N. 70 ft. below ridge.
- 4.10 Ascend.
- 8.00 Top of spur, 125 ft. above arroyo, continue along N. slope.
- 11.50 Descend.
- 16.00 Arroyo, 10 lks. wide, 85 ft. below ridge, course N. 05° 00' E.
- 16.20 Ascend.
- 20.00 Top of ridge, 175 ft. above arroyo, slope N. continue along N. slope.
- 28.00 Descend.
- 31.00 Arroyo, 15 lks. wide, 205 ft. below ridge, ascend.
- 34.00 Top of spur, 145 ft. high.

APACHE NATIONAL FOREST

STATE OF ARIZONA

Chains vorjash I Kolinw .xli OS .2 arsed , S .cm .tco faiI		erishD
34.50 Descend.	oferent seassentiw lns	
40.00 Draw, 5 lks. wide, 110 ft. below ridge.		
40.10 Ascend.	.Mif .0f redwood	
41.00 Top of ridge, 35 ft. above draw.	mttoI ecoment	
42.00 Descend.	oyoris to kred fash guols fneosed	
43.30 Arroyo, 10 lks. wide, 95 ft. below ridge, course N.	oyoris to bed tib Tefih 08.0	
	10° 00' E.	00.1
43.40 Ascend.	guols .ji cu fneosed of eminence , oyoris to bed swed	
45.00 Top of spur, 115 ft. high, continue along N. slope.	.W .cm .tco of 00.3	
47.00 Ascend.	abqian s el dolinw , S .cm .tco faiI dflw IselthshbI	
52.00 Top of ridge, 200 ft. above point of ascent. Continue	beassentiw bns beassentiw evods .amf of x SI x o Hoot	
	along steep N. slope.	
53.12 A vertical rock ledge facing to N. bears S. 10 lks.	ms ti vorjash I .ecivred jaeroff ent yd bedroosed as	
54.00 Descend steep rocky slope.	emoja beassent w levo , bonoty ent mi .amf el .amf	
56.00 Bottom of arroyo, 15 lks. wide, 255 ft. below point of	descent, course N. 15° 00' E.	
	eldasitoaqmi atii .qoj no ascto s bns mislo qnfor	
56.20 Ascend.	dglf .jt S .ased .jt S\I-E enote ro bnum s easier	
58.12 Top of ridge, 45 ft. above arroyo.	ecenew ,mialo ent midlw .taiB .jt S\I-E	
58.50 Descend, 175 ft.	.W .cm .tco arsed .amf ent o also evil A	
61.42 To Cor. No. 6.	.taiB .amf A	
	Set a wash boulder 25 x 14 x 12 ins. marked 6-HES227	
	on side facing claim and cross (+) on top for cor.	
	No. 6 of this survey and raise a mound of stone	
	around corner (impossible to set corner stone in	
	ground owing to rock). Pits and mounds impracticable,	
	whence,	
	A black oak 12 ins. dia. bears S. 70° 09' E.	
	44 lks. dist.	
	A pinon 6 ins. dia. bears S. 57° 32' E.	
	41 lks. dist.	
	A scrub oak 4 ins. dia. bears S. 42° 15' W.	
	58 lks. dist.	
	Each blazed and marked 6 H E S 227 B T.	

TAKEN APACHE NATIONAL FOREST

STATE OF ARIZONA

- Chains List Cor. No. 3, bears S. 20 lks. which I destroy
and witnesses thereto. Descend 08.12
.egbir woled .ft OII .ebiw .xif d .wrdm 00.00
-
- December 10, 1914. Veeding 01.00
- Thence North .wrdm evods .ft d8 .egbir to qot 00.12
- Descend along East bank of arroyo. Descend 00.24
- 0.30 Enter dry bed of arroyo. Descend 00.32
- 1.00 Leave bed of arroyo, continue to descend 25 ft. along
W. side. Descend 00.34
- 5.00 To Cor. No. 7. Descend 00.34
- Identical with list cor. No. 2, which is a malpais
rock 8 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 29 x 13 x 11
ins. 19 ins. in the ground, over a marked stone, for
Cor. No. 7 of this survey, marked 7-HES227 on side
facing claim and a cross on top. Pits impracticable,
raise a mound of stone 3-1/2 ft. base, 2 ft. high,
3-1/2 ft. dist. within the claim, whence,
A live oak 6 ins. dia. bears S. 88° 32' W. Descend 00.32
- 24 lks. dist. Descend 00.32
- A live oak 6 ins. dia. bears N. 60° 30' W.
- 31 lks. dist.
- A live oak 6 ins. dia. bears N. 68° 32' E.
- 50 lks. dist.
- Each blazed and marked 7 H E S 227 B T.
-
- Thence N. 88° 04' W. Ascend 50 ft. through thick stand of juniper, pinon and
scrub oak.
- 9.77 To Cor. No. 8. Ascend 50 ft.
- Identical with list cor. No. 1, which is a malpais
rock 4 x 12 x 10 ins. above ground, marked and witnessed
as described by the Forest Service. I destroy same

APACHE GLEN NATIONAL FOREST

STATE OF ARIZONA

- Chains .W 180° 37' .2 raised .515 .am 11 monig A
and witnesses thereto and set a lava stone 26 x 14 x 12
ins. 16 ins. in the ground, over a stone marked with
a cross for Cor. No. 8 of this survey, marked 8-HES227
on side facing claim and a cross (+) on top, and raise
a mound of stone 3 ft. base, 2 ft. high, 3-1/2 ft.
dist. within the claim. Pits impracticable, whence,
A juniper 12 ins. dia. bears N. 10° 00' E.
22 lks. dist.
A juniper 12 ins. dia. bears N. 84° 30' E.
11 lks. dist.
A twin live oak 10 ins. dia. bears S. 21° 37' E.
53 lks. dist.
A juniper 10 ins. dia. bears S. 53° 38' W.
53 lks. dist.
Each blazed and scribed 8 H E S 227 B T.
Thence North
Descend 35 ft. to creek, through thick juniper and
scrub oak.
2.74 Sardine Creek, 10 lks. wide, 1 lk. deep, course East.
3.00 Abrupt ascent, leave timber.
4.04 Top of bluff, 70 ft. high.
4.74 To Cor. No. 9.
Identical with list cor. No. 8, which is a malpais
rock 8 x 8 x 10 ins. above ground, marked and witnessed
as described by the Forest Service. I destroy same and
witnesses thereto and set a red granite stone 26 x 10
x 15 ins. in a mound of stone for Cor. No. 9 of this
survey marked 9-HES227 on side facing claim and a
cross (+) on top. No soil at this place. Pits and
mounds impracticable, whence,

164

Form 85. Sheet No. 2. 12.

HOMESTEAD ENTRY SURVEY NO. 227

MAY 1940
FEDERAL LAND OFFICE

APACHE NATIONAL FOREST

STATE OF ARIZONA

Chains SI x MI ft x ft nftw	A pinon 14 ins. dia. bears S. 75° 02' W. 171 lks. dist. and blazed and marked bedrock snote s revo bawrg est mi .ani 01 .ani 9-HES227 B T.	marked No other bearings available.
VASSHH-8 bedrock, previous point to S. 00° 00' rot secord s east bns, got no (+) secord s bns misle gnisst ebis no .ft S 1-G right .ft S .esad .ft G enote to bnuom s Thence East Along rim of canyon over badly eroded slopes, no soil or timber.	Along rim of canyon over badly eroded slopes, no soil or timber.	.faib .ani 88
10.00 To Cor. No. 10. Identical with list cor. No. 7 which is a malpais boulder 10 x 12 x 10 ins. above ground, marked and witnessed as described by the Forest Service. I destroy same and witnesses thereto, and set a lava stone 24 x 10 x 6 ins. in a mound of stone, for cor. No. 10 of this survey, marked 10-HES227 on side facing claim and cross (+) on top (Impossible to dig hole at this place). Pits impracticable, therefore raise a mound of stone 3 ft. base, 2 ft. high, 3-1/2 ft. dist. within claim. No bearing trees or objects within limits.	Identical with list cor. No. 7 which is a malpais boulder 10 x 12 x 10 ins. above ground, marked and witnessed as described by the Forest Service. I destroy same and witnesses thereto, and set a lava stone 24 x 10 x 6 ins. in a mound of stone, for cor. No. 10 of this survey, marked 10-HES227 on side facing claim and cross (+) on top (Impossible to dig hole at this place). Pits impracticable, therefore raise a mound of stone 3 ft. base, 2 ft. high, 3-1/2 ft. dist. within claim. No bearing trees or objects within limits.	AV. 3
Thence North Ascend 110 ft. along east slope, denuded of soil. Top of ascent, continue along steep hillside covered with rock and sloping to East.	Top of ascent, continue along steep hillside covered with rock and sloping to East.	AV. 4
6.41 10.00 To Cor. No. 1, the place of beginning.	127.82 Acres 14.55 Acres 142.37 Acres	
AREAS		
In Sec. 1	127.82 Acres	
In Sec. 6	14.55 Acres	
Total area	142.37 Acres	

APACHE NATIONAL FOREST

STATE OF ARIZONA

Chains and the majority of his adjoining claimants has got
Conflicts or Adjoining Claims
 There are no conflicts or adjoining claims.

Improvements

The improvements upon this claim, the property of the
 claimant herein, consist of the following:

Log barn, 12 x 12 ft., course of sides N. and S. The SW.
 cor. bears from cor. No. 7, N. 20° 39' E. 120 lks.

at distance of 192 lks. dist.

Value \$25.00

Frame chicken house, 10 x 10 ft., course of sides N. and
 S. The SE. cor. bears from cor. No. 7, N. 33° 18' W.
 192 lks. dist.

Value \$15.00

One Story frame residence, 15 x 34 ft., course of long
 sides N. and S. The SE. cor. bears from Cor. No. 7,
 N. 56° 32' W. 361 lks. dist.

Value \$250.00

Apple orchard, fenced and containing 195 bearing trees.

Value \$1,000.00

Total value of improvements.

\$1,290.00

Description

The claim lies in a rough mountainous country with badly
 eroded slopes, partially denuded of soil. A narrow
 strip along Sardine Creek is suitable for agriculture
 when cleared of a scattering growth of sycamore and
 black walnut. The soil along the creek bottom is a
 black sandy loam well adapted to growing fruit and
 vegetables. The hillsides are good for pasture.

Sardine Creek, a perennial stream, of pure clear water
 runs through the claim and furnished sufficient water

HOMESTEAD ENTRY SURVEY NO. 227

APACHE NATIONAL FOREST

STATE OF ARIZONA

Chains for all domestic purposes and to irrigate all the land capable of being cultivated. At present, the claimant has about 2 acres planted to orchard, bearing a large quantity of excellent fruit.

The timber on the claim consists of scattering juniper and pinon on the mountain sides and black walnut and sycamore along the bed of Sardine Creek. Copper stains are noticeable on the rock ledges along Sardine Creek and evidence of former prospecting is seen, but no mineral in paying quantity has been found.

Metcalf, a copper mining town, on the Arizona and New Mexico R. R., the nearest postoffice and trading center, lies about 12 miles distant in a southerly direction by trail.

Traverses, Sec. 1.

Cor.	Course	Dist.	N.	S.	E.	W.
1-2	East	61.43			61.43	
2-5 S.	0° 01' W.	20.00		20.00		0.01
5-6	West	61.42				61.42
6-7	North	5.00	5.00			
7-8 N.	88° 04' W.	9.77	0.33			9.76
8-9	North	4.74	4.74			
9-10	East	10.00			10.00	
10-1	North	10.00	10.00			
		182.36	20.07	20.00	71.43	71.19
				20.00		71.19
					0.24	

Error in Lat. and Dep. - None.

Closing error 1:792

Traverses, Sec. 6.

Cor.	Course	Dist.	N.	S.	E.	W.
2-3	East	7.27			7.27	
3-4	South	20.00		20.00		
4-5	West	7.28				7.28
5-2 N.	0° 01' E.	20.00	20.00	0.01		
		54.55	20.00	20.00	7.28	7.28

Error in Lat. and Dep. - None.

Closing Error - None.

Survey completed December 10, 1914.

C. A. Long
Surveyor - Forest Service

HOMESTEAD ENTRY SURVEY NO. 227

167

APACHE NATIONAL FOREST

STATE OF ARIZONA

Chains

Latitude ComputationLongitude by account from Land Office map $109^{\circ} 19' 30''$ W.

December 7, 1914.

Observed meridian altitude of sun's upper limb at Cor.

No. 1 at 11h. 51m. 17s. l.m.t. is $34^{\circ} 29'$. $34^{\circ} 29'$ refraction - $-01' 23''$ semi-diameter - $-16' 16''$ parallax $\frac{34^{\circ} 11' 21''}{+07}$
 $34^{\circ} 11' 28''$ = True alt. sun's center.Sun's declination = + $\frac{22^{\circ} 35' 31''}{56^{\circ} 46' 59''}$ = Co. Lat. $\frac{90^{\circ} 00' 00''}{33^{\circ} 13' 01''}$ = Latitude.

December 7, 1914.

Azimuth Computation.

Longitude $109^{\circ} 19' 30''$ W.Latitude $33^{\circ} 13' 01''$ N.

Method and Data previously stated.

(1)

L. m.t. of obsn. 2h. 20m. 47s.

Apparent time of obsn. 2h. 29m. 30s.

Observed vert. ang. $23^{\circ} 37' 40''$ Vert. Ang. corrected for
refraction $23^{\circ} 35' 28''$ Hor. ang. from sun to
left $117^{\circ} 30' 30''$ Sun's declination $22^{\circ} 36' 14''$

$$\text{Cos. A.} = \frac{\text{Sin. } 22^{\circ} 36' 14''}{\text{Cos. } 33^{\circ} 13' 01'' \times \text{Cos. } 23^{\circ} 35' 28''} - (\text{Tan. } 33^{\circ} 13' 01'' \times \text{Tan. } 23^{\circ} 35' 28'')$$

$$33^{\circ} 13' 01'' \times \text{Tan. } 23^{\circ} 35' 28'')$$

$$\begin{aligned} \text{Log. Sin. } 22^{\circ} 36' 14'' &= 9.5847359 \\ &\quad 9.8846173 \\ &\quad \hline 9.7001186 &= \text{Log. } .50132 \end{aligned}$$

HOMESTEAD ENTRY SURVEY NO. 168

LIONEY FOREST

STATE OF ARIZONA TO STATE

Chains

Latitude Compensation

20. M.

Longitude per secant from Tax Office sec 103. 18, 19, 20, W.

December 4, 1914.

Opposite meridian distance to sum of a longer limb of cor.

No. 1 at 115° 51' 18.1 m. 18 54. 20.

24. 20.

01. 29.

meridian

06. 11. 21.

semi-diurnal

+ 04.

distances

24. 11. 28. = True diff. sun's con-

per.

Sum's declination = + 22. 22. 21.

22. 18. 20. = Co. Tst.

30. 00. 00.

33. 13. 01. = Latitude

December 4, 1914.

Azimuth Compensation

Longitude 103. 18, 20. W.

Latitude 33. 13. 01. N.

Meeting sun due to diurnal variation of date

(I).

24. 20. 18.

L. m. s. of open

20. 23. 20.

Apparent time of open

23. 23. 40.

Opposite rev. arc.

23. 22. 28.

Var. min. correction for

115. 20. 20.

merid. sun's from sun to

23. 22. 14.

Jeff

Cos. A. = Sin. 22. 22. 14.

Cos. 23. 13. 01. X Cos. 23. 22. 28.

23. 13. 01. X Tan. 23. 22. 28.)

0. 8846143

Tos. 23. 22. 28. 23. 14. = 0. 8846223

0. 8001188 = Tos. . 80195

APACHE NATIONAL FOREST

STATE OF ARIZONA

Chains

$$\begin{aligned} \text{Log. Cos. } 33^\circ 13' 01'' &= 9.9225205 \\ " " 23^\circ 35' 28" &= \underline{9.9620968} \\ &\quad 9.8846173 \end{aligned}$$

$$\begin{aligned} \text{Log. Tan. } 33^\circ 13' 01'' &= 9.8161068 \\ " " 23^\circ 35' 28" &= \underline{9.6401877} \\ &\quad 9.4562945 = \text{Log. .28595} \end{aligned}$$

$$-.50132 - .28595 = -.78727 = \text{nat. cos. S. } 38^\circ 04' 07"$$

W. bearing of sun and bearing of reference mark is
S. $79^\circ 26' 23''$ E.

(2)

Latitude = $33^\circ 13' 01''$

l.m.t. of obs. = 2h. 23' 38s.

Apparent time obs. 2h. 32m. 21s.

Obs. Vert. Ang. $23^\circ 15' 15''$ Vert. Ang. corrected
for refraction $23^\circ 13' 04''$ Sun's decl. $22^\circ 36' 15''$

$$\text{Cos. A.} = \frac{\text{Sin. } 22^\circ 36' 15''}{\text{Cos. } 33^\circ 13' 01'' \times \text{Cos. } 23^\circ 13' 04''} \quad -(\text{Tan. } 33^\circ 13' 01'' \times \text{Tan. } 23^\circ 13' 04'')$$

$$33^\circ 13' 01'' \times \text{Tan. } 23^\circ 13' 04'')$$

$$\begin{aligned} \text{Log. Sin. } 22^\circ 36' 15'' &= 9.5847409 \\ &\quad 9.8858422 \\ &\quad \underline{9.6988987} = \text{Log. .49992} \end{aligned}$$

$$\begin{aligned} \text{Log. Cos. } 33^\circ 13' 01'' &= 9.9225205 \\ " " 23^\circ 13' 04" &= \underline{9.9633217} \\ &\quad 9.8858422 \end{aligned}$$

$$\begin{aligned} \text{Log. Tan. } 33^\circ 13' 01'' &= 9.8161068 \\ " " 23^\circ 13' 04" &= \underline{9.6324247} \\ &\quad 9.4485315 = \text{Log. .28089} \end{aligned}$$

$$-.49992 - .28089 = -.78081 = \text{nat. cos. of S. } 38^\circ 39' 54''$$

W. being the bearing of the sun and the bearing of reference
mark is S. $79^\circ 26' 31''$ E. and the mean of these two ob-
servations is S. $79^\circ 26' 27''$ E.

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. I. 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. 227, STATE OF ARIZONA. Harland Walker - Apache.

CORNERS.	BEARING.	DISTANCE.	LATITUDES.		DEPARTURES.		DOUBLE M. D.	N. AREAS.	S. AREAS.
			NORTH.	SOUTH.	EAST.	WEST.			
Sec. 1 1-2	East	61.43			61 43	33	81 29		
2-5	S. 0° 01' W.	20.00		20 00	0 01	142 61		28 56 46	
5-6	West	61.42	49		61 42	52	81 08		
6-7	North	5.00	5 00				19 56	97 60	
7-8	N. 88° 04' W.	9.77	0 33	9 76	9 78	3 23			
8-9	North	4.74	4 74		9 98	0 00			
9-10	East	10.00	10 00	10 00		9 98			
10-11	North	10.00	10 00		19 96	199 20			
		182.36	20 07	20 00	71 43	71 19	300 03	2856 46	
			20 03	20 03	71 31	71 34	300 03	2856 46	
								20) 2556 43	
									Sec. 1 - 127 82 acres
									Sec. 6 - 14 55 acres
							Total - 142 37 acres		
Sec. 6 2-3	East	7.27			7 27	7 29			
3-4	South	20.00		20 00		14 56		291 20	
4-5	West	7.28			7 28	7 28			
5-2	N. 0° 01' E.	20.00			0 01	0 01	0 20	291 20	171
		54.55	20 00	20 00	7 28	7 28	0 20	291 20	
			10 00	20 00	7 28	7 28	0 20	291 20	
								20) 291 00	
									Sec. 6 - 14 55 acres

STATE OF MASS. - AT THE
COURT OF COMMON PLEAS - IN THE COUNTY OF
BOSTON - ON THE 1ST DAY OF APRIL, A.D.
1855 - AND CATCHMENT OF HOMESTEAD EMER
GENT, ON THE 2ND DAY OF APRIL, A.D.
1855.

DRAFTED AND FILED IN THE CLERK'S OFFICE
OF THE COURT OF COMMON PLEAS - BOSTON,
MASS., THIS 1ST DAY OF APRIL, A.D.
1855 - BY WALTER D. DOUCET, JR.
NOTARY PUBLIC.

E. 8.

DEBTOR'S NAME		DOUCET, W. D.	WITNESS,	STATE OF MASS.
HOMESTEAD EMER GENT				

S. A. T. S.

WITNESS

WITNESS

WITNESS

WITNESS

RECEIVER'S NAME		WITNESS,	WITNESS,	STATE OF MASS.
WALTER D. DOUCET				

S. A. T. S.

WITNESS

WITNESS

WITNESS

WITNESS

WITNESS'S NAME		WITNESS,	WITNESS,	STATE OF MASS.
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S. A. T. S.

WITNESS

WITNESS

WITNESS

WITNESS

MONTH.	YEAR.	DEBTORS' NAME	AMOUNT.	REMITTER'S NAME	AMOUNT.
APR.	1855	EMER GENT	50.00	WALTER D. DOUCET	50.00
JUN.	1855	EMER GENT	50.00	WALTER D. DOUCET	50.00
JUL.	1855	EMER GENT	50.00	WALTER D. DOUCET	50.00
SEPT.	1855	EMER GENT	50.00	WALTER D. DOUCET	50.00

APPROVAL

Office of the United States Surveyor General,

Phoenix, Arizona, April 2, 1917.

The foregoing field notes of Homestead Entry Survey No.

227

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.