

U. S. DEPARTMENT OF AGRICULTURE
FOREST SERVICE

191
OCT.-2 1916
FEB. 10. 1918
FEB. 20. 1918

FIELD NOTES

OF

HOMESTEAD ENTRY SURVEY NO. 280

SITUATED IN THE **CHIRICAHUA** NATIONAL FOREST

ADMINISTRATIVE DISTRICT NO. 3

In Section 26 , unsurveyed, Township 16 S, Range 30 E.,

In Section 27 , unsurveyed, Township 16 S., Range 30 E.,

In Section 34 , unsurveyed, Township 16 S., Range 30 E.,

In Section 35 , unsurveyed, Township 16 S., Range 30 E.

of the

Gila and Salt River Base and Meridian.

State of **ARIZONA**

Applicant for listing **Robert D. Hall,**

Residence **Paradise, Arizona**

Application No. **10** , dated **August 17** , 19 **11**

List No. **3-1669** , dated **January 13** , 19 **12**

Applicant for survey **Robert D. Hall,**

Residence **Paradise, Arizona**

H. E. No. **01983** , dated **May 16** , 19 **12**

Office
Land District **Phoenix, Arizona**

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

[Forest Service Title.]

Under special instructions dated **October 1** , 19 **14**

Survey commenced **May 5** , 19 **15**

Survey completed **May 7** , 19 **15**

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

192

OATH OF ASSISTANTS

We hereby certify that we assisted **C. A. Long,**
Surveyor - Forest Service in surveying all those
[Forest Service Title.]

parts or portions of Homestead Entry Survey No. **280**, in the State
of **ARIZONA**, which are represented in the following field notes
as having been surveyed by him and under his direction; and that said
survey has been in all respects, to the best of our knowledge and
belief, well and faithfully surveyed, and the corner monuments estab-
lished, according to the instructions furnished 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.**

Assistant

Ray Chapman

Chester A. Lee

Head Chainman

Subscribed and sworn to before me this **7th** day of
May, 19 **15**.

C. A. Long

Surveyor - Forest Service

OATH OF SURVEYOR

I, **C. A. Long, Surveyor - Forest Service**
[Forest Service Title.]

do solemnly swear that, in strict conformity with the special instruc-
tions of the United States Surveyor General for **ARIZONA**, dated
October 1, 19 **14**, and the laws of the United States, I have
well, faithfully, and truly, in my own proper person, surveyed a tract
of land **embraced in**

List, No. **3-1669**, dated **January 13**, 19 **12**, for
PATENT, under the Act of **June 11**, 19 **06**,
the same to be known as Homestead Entry Survey No. **280**,
situated within the **CHIRICAHUA** National Forest, in
unsurveyed Section 26, Township **16 S.**, Range **30 E.**, and
unsurveyed Section 27, Township **16 S.**, Range **30 E.**, and
unsurveyed Section 34, Township **16 S.**, Range **30 E.**, and
unsurveyed Section 35, Township **16 S.**, Range **30 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 perpetuated in strict accordance with the stated special
instructions, 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

[Forest Service Title.]

Subscribed and sworn to before me this **31st** day of
March, 19 **16**.

Elaine C. Myers

Notary Public



8-2349

My Commission expires April 20, 1918.

193

CHIRICAHUA NATIONAL FOREST

STATE OF ARIZONA

Chains

Applicant for listing Robert D. Hall, Application No. 10, dated August 17, 1911; List No. 3-1669, dated January 13, 1912; H. E. No. 01983 made at Phoenix, Arizona by Robert D. Hall, dated May 16, 1912.

Surveyed under special instructions from the Surveyor General for Arizona, dated October 1, 1914, and designated as Homestead Entry Survey No. 280. Situated in what will probably be when surveyed secs. 26, 27, 34 and 35, T. 16 S., R. 30 E., Gila and Salt River Base and Meridian, within the Chiricahua National Forest, Arizona.

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

Survey commenced May 5, 1915 and executed with a Buff and Buff Light Mountain Transit No. 9703 with Smith Solar attachment. The transit is pro-

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

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

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

HOMESTEAD ENTRY SURVEY NO. 280

CHIRICAHUA NATIONAL FOREST

STATE OF ARIZONA

Chains

May 5, 1915.

At List cor. H-1 and what will be cor. No. 1 of this survey in lat. $31^{\circ} 59' 36''$ N., Long. $109^{\circ} 14' 56''$ W. from special instructions from Surveyor General and later verified.

I observe the altitude of the sun for azimuth.

The zero of the horizontal limb is set on a reference mark located on a prominent point in the NE. quadrant and about one mile distant. My watch is set for local mean time. The sun was observed in the upper right, lower left, upper left and lower right quadrants of the field.

Telescope	Time	Vertical Angle	Horizontal Angle
Direct	3h. 12m. 0s.	$43^{\circ} 11' 00''$	$227^{\circ} 13' 00''$
Reverse	3h. 14m. 00s.	$43^{\circ} 19' 00''$	$228^{\circ} 16' 00''$
Mean	3h. 13m. 00s.	$43^{\circ} 15' 00''$	$227^{\circ} 44' 30''$
Direct	3h. 18m. 00s.	$41^{\circ} 55' 00''$	$228^{\circ} 54' 00''$
Reverse	3h. 19m. 35s.	$42^{\circ} 09' 00''$	$228^{\circ} 25' 00''$
Mean	3h. 18m. 47s.	$42^{\circ} 02' 60''$	$228^{\circ} 39' 30''$

Bearing of reference mark by 1 N. $34^{\circ} 22' 17''$ E.

Bearing of reference mark by 2 N. $34^{\circ} 22' 00''$ E.

Mean N. $34^{\circ} 22' 08''$ E.

I turn off $34^{\circ} 22' 08''$ to the west from reference mark and mark the meridian on the ground by driving a tack in a stake set 10 chs. N. of my station.

May 5, 1915.

At 4h. 15m. p.m. l.m.t. I set off $16^{\circ} 10' 20''$ N. on the decl. arc. and $31^{\circ} 59' 36''$ on lat. arc, and determine a meridian with the solar at List cor. No. 1 and my line of sight falls $1/4$ of an inch to the east of the tack set in stake 10 chs. N. of my station.

Chains. May 6, 1915.

At 9h. 00m. a.m. l.m.t. I set off $16^{\circ} 21' 58''$ N. on decl. arc and $31^{\circ} 59' 36''$ on lat. arc and determine a meridian with the solar at list cor. H-1 and my line of sight falls $1/16$ of an inch to the east of the tack set in stake 10 chs. N. of my station, therefore I consider the adjustments of my solar as satisfactory.

The center line method was not used for laying down the road exception in this survey.

Tract A.

May 6, 1915.

Beginning at cor. No. 1.

Identical with cor. H-1 of the list survey which is a granite stone 8 x 12 x 18 ins. above ground marked and witnessed as described by the Forest Service. I destroy it and all witnesses thereto, and set a granite stone 7 x 10 x 23 ins. (no longer stone available)

13 ins. in the ground over a granite stone 1 x 4 x 7 ins.

marked with a cross chiseled + for the point and

1 - H E S 280 on NW. face; raise a mound of stone 3 ft. base, $2\frac{1}{2}$ ft. high, $3\frac{1}{2}$ ft. dist. within the claim whence

+ 1 H E S 280 B R chiseled on a basalt stone in place showing 24 x 36 x 18 ins. above ground bears S. $13^{\circ} 00'$ W., 48 lks. dist.

+ 1 H E S 280 B R chiseled on a porphyry stone in place showing 24 x 30 x 12 ins. above ground bears N. $7^{\circ} 28'$ W., 30 lks. dist.

1/4 sec. cor. bet. secs. 31 and 36, T. 16 S.,

Rs. 30 and 31 E., G. & S. R. B. & M. (Surveyed and accepted) which is a granite stone 10 x 8 x 4 ins. above ground marked and witnessed as

196

HOMESTEAD ENTRY SURVEY NO. 280

CHIRICAHUA NATIONAL FOREST

STATE OF ARIZONA

Chains

described by the Surveyor General bears S.

89° 51' E. 121.48 chs. by direct measurement.

The mag. decl. at 8 a.m. is 14° 18' E. which corrected

for diurnal change is 14° 15' E.

Lat. 31° 59' 36" N. Long. 109° 14' 56" W. from

Surveyor General's special instructions, and later verified.

Thence N. 78° 11' W.

Through scattering scrub oak over gently rolling land.

8.10 Wash, 10 lks. wide, course north.

22.25 Wash, 15 lks. wide, course NE. Cross telephone line bearing N. 75° 00' W. and S. 75° 00' E.

37.00 Begin steep ascent of ridge 90 ft. high.

41.00 Top of ridge, bears N. 20° 00' E. and S. 20° 00' W.

Descent steep west slope.

46.00 Bottom of descent. 85 ft. below top of ridge. Continue over rolling land.

51.00 Arroyo 10 lks. wide, course north.

55.80 To cor. No. 2 also Cor. No. 4 of HES 281.

Identical with cor. H-6 of List 3-1669 and cor. H-1 of List 3-2551, which is a granite stone 7 x 9 x 18

ins. above ground marked and witnessed as described by

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

and witnesses thereto, and set a limestone 7 x 12 x 24

ins. marked with a cross chiseled + for the point

2-H E S 280 on NE face and 4-H E S 281 on west face;

and raise 2 mounds of stone 4 ft. base, 2 1/2 ft. high,

3 1/2 ft. NE. and west of Cor. whence,

A nail in a live oak 12 ins. dia. bears S. 43°

44' W. 54 lks. dist.

A nail in a live oak 10 ins. dia. bears S. 9°

32' W. 96 lks. dist. Each blazed and scribed

2-H E S 280 BIT.

ins. above ground marked and witnessed

Chains

A nail in a live oak 10 ins. dia. bears S.
10° 56' E. 96 lks. dist.

A nail in a live oak 10 ins. dia. bears S.
73° 12' W. 120 lks. dist.

Each blazed and scribed 4 H E S 281 B T.

U.S.M.M. No. 2099 California Mining District

which is an iron bolt cemented in a solid rock
ledge, marked and witnessed as described by
the Surveyor General, bears S. 88° 25' W.,

57.00 chs. dist., by triangulation from this
cor. and cor. No. 13.

Thence N. 4° 03' E.

Descend 70 ft. over gradual slope, through open land,
along the common bdy. bet. this claim and H.E.S. 281.

6.90 Wash, 25 lks. wide, course NE.

13.20 Road, bears E. and W.

13.79 To cor. No. 3 also cor. No. 3 of H E S 281.

Set a red sandstone 12 x 12 x 26 ins., 16 ins. in the
ground, over a sandstone 4 x 4 x 5 ins. marked with a
cross, chiseled + for the point and 3 - H E S 280 on
SE. face and 3 H E S 281 on SW. face and raise
mounds of stone 4 ft. base, 2-1/2 ft. high, 3-1/2 ft.
dist. SE. and SW. of cor. whence:

A nail in a black walnut, 5 ins. dia., bears
S. 87° 47' E., 186 lks. dist., blazed and
scribed 3 H E S 280 B T.

A nail in a black walnut 5 ins. in dia. bears
N. 87° 54' E. 190 lks. dist. blazed and
scribed 3 H E S 281 B T.

U. S. M. M. No. 2099, California Mining District,
heretofore described, bears S. 75° 11' W.,
59.95 chs. dist. by triangulation from this
Cor. and Cor. No. 2.

HOMESTEAD ENTRY SURVEY NO 280
CHIRICAHUA NATIONAL FOREST
STATE OF ARIZONA

Chains

May 6, 1915.
At 11h. 56m. 36s. a.m., l.m.t., I set off $16^{\circ} 24''$ N. on decl. arc, and observe the sun on the meridian at cor. No. 3 of this survey, and obtain a reading of $31^{\circ} 59-1/2'$ on the latitude arc.
At 2 p.m., l.m.t., I set off $16^{\circ} 25' 25''$ N. on decl. arc, and $31^{\circ} 59-1/2'$ on lat. arc, and determine a meridian with the solar at the above cor.

Thence S. $82^{\circ} 22'$ E.

Over open rolling land, along S. side of road exception.

7.00 Enter thick scrub oak.

9.03 To cor. No. 4.

Set a granite stone 5 x 10 x 18 ins., 10 ins. in the ground, over a granite stone 2 x 4 x 4 ins., marked with a cross, chiseled 4 - H E S 280 on S. face 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, whence:

A nail in a black walnut, 12 ins. dia., blazed and scribed 4 H E S 280 B T, bears S. $49^{\circ} 36'$ E. 90 lks. dist.

A nail in a post oak, 6 ins. dia., blazed and scribed 4 H E S 280 B T, bears S. $22^{\circ} 16'$ E., 90 lks. dist.

(No larger stone available for cor.)

Thence N. $83^{\circ} 12'$ E.

Over level land, through scattering scrub oak and sycamore, along S. side of road exception.

1.00 Wash, 10 lks. wide, course N. $82^{\circ} 00'$ E.

8.28 To cor. No. 5.

Point for cor. falls on a sloping basalt ledge, showing 12 ins. above ground. I cut a cross to mark the exact corner point and 5 - H E S 280 on side

CHIRICAHUA NATIONAL FOREST

STATE OF ARIZONA

Chains	facing the claim, and raise a mound of stone 4 ft. base, 2-1/2 ft. high, 3-1/2 ft. dist. within the claim, whence:
	+ 5 H E S 280 B R chiseled on a rock ledge bears S. 58° 07' W., 37 lks. dist.
	+ 5 H E S 280 B R chiseled on a rock ledge bears S. 29° 23' E., 25 lks. dist.
	Thence S. 76° 42' E.
	Through scattering oak and sycamore timber.
	Ascend gradual slope 25 ft. to cor.
	Along S. side of road exception.
12.00	Leave timber. Continue over open land.
18.61	To cor. No. 6.
	Set a white sandstone 12 x 12 x 32 ins. 22 ins. in the ground over a white sandstone 1 x 3 x 3 ins. marked with a cross chiseled 6 - H E S 280 on S. face and a cross on top and raise a mound of stone 4 ft. base, 2-1/2 ft. high, 3-1/2 ft. dist. within the claim.
	No bearing trees in limits. Pits impracticable.
	Thence N. 81° 39' E.
	Over open land. Descend 25 ft. to cor.
	Over gradual slope, along S. side of road exception.
18.49	To cor. No. 7.
	Set a granite stone 5 x 12 x 18 ins. 10 ins. in the ground over a porphyry stone 2 x 4 x 6 ins. marked with a cross chiseled 7 - H E S 280 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 4 ft. base, 2-1/2 ft. high, 3-1/2 ft. dist. within the claim.

Chains

(No larger stone available for cor.)

Thence S. 0° 04' E.

Ascend gradual slope 146 ft. to cor. over open land.

3.33 Wash, 30 lks. wide, course NE.

23.33 To cor. No. 1 and place of beginning.

May 6, 1915.

May 7, 1915.

Tract B.

Beginning at cor. No. 8.

On N. side of road exception which is a point N.

0° 04' W. 46 lks. from cor. No. 7 of this survey.

Set a granite stone 8 x 14 x 25 ins. 15 ins. in the

ground over a quartzite stone 2 x 3 x 3 ins. marked

with a cross, chiseled 8 - H E S 280 on NW. face 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 4 ft. base, 2-1/2 ft. high,

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

Cor. No. 7 heretofore described bears S. 0° 04' E.,

46 lks. dist.

At the above cor. at 7h. 00m. a.m. l.m.t. I set off

16° 38' 13" N. on decl. arc. and 31° 59-1/2' on lat.

arc and determine a meridian with the solar.

Thence S. 81° 39' W.

Over open land. Ascend gradual slope 25 ft. to cor.

Along north side of road exception.

18.53 To cor. No. 9.

Set a granite stone 14 x 14 x 36 ins. 26 ins. in the

ground over a granite stone 2 x 3 x 5 ins. marked

with a cross chiseled 9 - H E S 280 on N. face and

a cross on top and raise a mound of stone 4 ft. base

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

A nail in a black walnut 14 ins. dia. bears

CHIRICAHUA NATIONAL FOREST

STATE OF ARIZONA

Chains

N. 51° 49' E. 104 lks. blazed and scribed 9

H E S 280 B T.

No other trees in limits. Pits impracticable.

Cor. No. 6 heretofore described bears S. 2°

29' W. 45 lks.

Thence N. 76° 42' W.

Through scattering scrub oak and sycamore. Descend gradual slope 25 ft. to cor. along north side of road exception.

18.61 To cor. No. 10.

Set a porphyry stone 4 x 12 x 26 ins., 16 ins. in the ground, over a limestone 2 x 5 x 5 ins. marked with a

cross, chiseled 10 - H E S 280 on N. face and a cross on top; and raise a mound of stone 4 ft. base, 2-1/2 ft. high, 3-1/2 ft. dist. within the claim, whence:

A nail in a sycamore, 16 ins. dia., blazed

and scribed 10 H E S 280 B T, bears

S. 86° 41' W., 77 lks. dist.

A nail in a willow tree, 16 ins. dia., blazed

and scribed 10 H E S 280 B T, bears N. 24°

23' E., 51 lks. dist.

Cor. No. 5 heretofore described bears S. 3° 15' W.

45 lks.

Thence S. 83° 12' W.

Along N. side of road exception. Over level land, through scattering sycamore.

2.00 Wash, 20 lks. wide, course N. 70° 00' E.

6.60 Pole fence around corral bears N. 10° 00' E. and S. 10° 00' W.

7.70 Pole fence around corral bears N. 79° 00' W. and S. 79° 00' E.

8.30 To cor. No. 11.

CHIRICAHUA NATIONAL FOREST

STATE OF ARIZONA

Chains

Set a white sandstone 7 x 12 x 25 ins., 15 ins. in the ground, over a porphyry stone 3 x 4 x 5 ins. marked with a cross, chiseled 11 - H E S 280 on N. face and a cross on top; and raise a mound of stone, 4 ft. base, 2-1/2 ft. high, 3-1/2 ft. dist. within the claim, whence:

A nail in a live oak, 8 ins. dia., blazed

and scribed 11 H E S 280 B T bears

S. 75° 36' W., 95 lks. dist.

A nail in a black walnut, 10 ins. dia., blazed

and scribed 11 H E S 280 B T, bears S.

28° 45' E., 110 lks. dist.

Cor. No. 4 heretofore described bears S. 0° 25'

W., 45 lks. dist.

Thence N. 82° 22' W.

Over gently rolling land, through scattering scrub oak, along N. side of road exception.

9.05 To cor. No. 12, also Cor. No. 10 of H E S 281.

Set a granite stone 8 x 14 x 28 ins. marked with a cross, chiseled + at the point, 12 - H E S 280 on NE. face and 10 H E S 281 on NW. face, and raise mounds of stone 4 ft. base, 2-1/2 ft. high, 3-1/2 ft. dist.

NE. and NW. of cor. Whence:

A nail in a black walnut, 6 ins. dia., blazed

and scribed 12 - H E S 280 B T, bears S. 78°

08' E., 188 lks. dist.

A nail in a sycamore, 9 ins. dia., blazed

and scribed 12 H E S 280 10 H E S 281 B T,

bears N. 29° 57' E., 214 lks. dist.

Cor. No. 3^{heretofore described} bears S. 4° 03' W., 46 lks. dist.

Sun obscured at noon. Observation for latitude im-

practicable.

At cor. No. 12 of the claim at 2h. p.m., 1.m.t., I set off 16° 42' 15" N. on decl. arc and 31° 59-1/2' on the

CHIRICAHUA NATIONAL FOREST

STATE OF ARIZONA

Chains	lat. arc, and determine a meridian with the solar. Thence N. 4° 03' E. Through scattering walnut and sycamore, over level land.
0.55	East Whitetail Wash, 35 lks. wide, course East. Enter dense undergrowth of catclaw and mesquite.
4.55	Wash, 15 lks. wide, course S. 80° 00' E. Ascend 45 ft. to cor.
4.95	Wire fence bears S. 78° 00' E. and N. 78° 00' W. Leave undergrowth.
11.75	Arroyo, 12 lks. wide, 8 ft. deep, course S. 20° 00' E.
12.72	To cor. No. 13, also Cor. No. 9 of H E S 281. Identical with cor. H-5 of List 3-1669, also cor. H-7 List 3-2551 which is a granite stone 5 x 8 x 15 ins. above ground, marked and witnessed as described by the Forest Service. I destroy all trace of the list cor. and set a granite stone 4 x 12 x 28 ins., 18 ins. in the ground, over a porphyry stone 1 x 4 x 3 ins. marked with a cross chiseled + for the point 13 - H E S 280 on SE. face and 9 - H E S 281 on SW. face; raise mounds of stone 4 ft. base, 2-1/2 ft. high, 3-1/2 ft. dist. SE. and SW. of cor. whence: A nail in a live oak, 8 ins. dia., bladed and scribed 13 H E S 280 9 H E S 281 B T, bears N. 39° 50' W., 81 lks. dist. No other trees in limits. Pits impracticable.
	Thence N. 80° 40' E. Over open land, descend 33 ft. to wash.
5.47	Wash, 15 lks. wide, course SE. Ascend 35 ft. to cor.
16.85	Wash, 20 lks. wide, course S. 30° 00' E.
18.85	Wash, 10 lks. wide, course SE.
19.37	To cor. No 14. Identical with list cor. H-4, which is a granite stone 8 x 10 x 18 ins. above ground, marked and witnessed as

204

HOMESTEAD ENTRY SURVEY NO 280

12.

CHIRICAHUA NATIONAL FOREST

STATE OF ARIZONA

Chains

described by the Forest Service. I destroy it and all witnesses thereto, and set a porphyry stone 5 x 10 x 27 ins., 17 ins. in the ground, over a porphyry stone 2 x 4 x 4 ins. marked with a cross, chiseled 14 - H E S 280 on S. face 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, 4 ft. base, 2 ft. high, S. of cor. whence:

A nail in a mesquite, 5 ins. dia., blazed and scribed 14 H E S 280 B T, bears N. 40° 56' W., 45 lks. dist.

No other witnesses available.

Thence S. 40° 59' E.

Descend 43 ft. over rolling land through scattering mesquite.

19.80

To cor. No. 15.

Identical with list cor. H-3, which is a cross on a porphyry stone ledge and witnessed as described by the Forest Service. I destroy it and all witnesses thereto and cut a cross on a porphyry ledge showing 18 ins. above ground, and chisel 15 - H E S 280 around the cross and raise a mound of stone 4 ft. base, 2-1/2 ft. high, 3-1/2 ft. dist. within the claim, whence:

+ 15 H E S 280 B R chiseled on a rock ledge bears S. 11° 05' W., 39 lks. dist.

+ 15 H E S 280 B R, chiseled on a rock ledge, bears N. 77° 31' E., 41 lks. dist.

Thence N. 82° 49' E.

Over open land, ascend 5 ft. over rocky point bearing N. 20° 00' E. and S. 20° 00' W.

00.15

Top of rocky point and descend steep rocky SE. slope,

4.56

East Whitetail Wash, 20 lks. wide course N. 80° 00' E.

205

CHIRICAHUA NATIONAL FOREST

STATE OF ARIZONA.

Chains thence over level land through dense undergrowth
of catclaw and willow.

16.81 Wash, 12 lks. wide, course NE.

20.81 To cor. No. 16.

Identical with cor. H-2 which is a granite stone
10 x 14 x 16 ins. above ground marked and witnessed
as described by the Forest Service. I destroy it
and all witnesses thereto and set a porphyry stone
10 x 14 x 40 ins. 30 ins. in the ground over a
porphyry stone 1 x 3 x 3 ins. marked with a cross
chiseled 16 - H.E.S. 280 on SW. face and a cross
on top and raise a mound of stone 4 ft. base, 2 1/2
ft. high, 3 1/2 ft. dist. within the claim whence

A nail in a black willow tree 4 ins. dia.

blazed and scribed 16 H.E.S. 280 B T bears

S. 50° 45' W. 44 lks. dist.

+ 16 H.E.S. 280 B R chiseled on a white sand-
stone showing 8 x 12 x 36 ins. above ground

bears S. 37° 39' E., 48 lks. dist.

Thence S. 0° 04' E.

Over level bottom land, through dense undergrowth
of willow and mesquite.

3.83 Wire fence bears N. 78° 00' E. and S. 78° 00' W.

Leave undergrowth and continue over open land.

5.29 To cor. No. 8 and place of beginning.

Area.

Area Tract A..... 94.27 acres

Area Tract B..... 54.33 acres

Total Area..... 148.60 acres

706

Chains

Improvements.

The improvements made upon the claim and belonging to the claimant, herein consist of the following:

A frame bunk house 10 x 14 ft. the long side of which bears N. and S. and the NW. cor. of which bears S. 29° 01' E. 1.51 chs. from cor. No. 4.

Value.....\$150.00

A frame dwelling 32 x 40 ft. course of long sides N. and S., the SW. cor. of which bears S. 37° 51' E. 2.75 chs. from cor. No. 4.

Value.....\$600.00

A dug well 35 ft. deep with wind-mill over well, the center of which bears S. 15° 48' E., 2.87 chs. from cor. No. 4.

Value.....\$300.00

A frame barn 10 x 24 ft. course of long sides E. and W. and the SW. cor. of which bears N. 9° 58' E. 1.98 chs. from cor. No. 4.

Value.....\$100.00

A stone bunk house 15 x 30 ft. course of long sides E. and W. the NW. cor. of which bears S. 73° 00' E. 2.89 chs. from cor. No. 4.

Value.....\$100.00

A stone storehouse 6 x 9 ft. course of long sides E. and W. the NW. cor. of which bears S. 68° 34' E. 5.75 chs. from cor. No. 11.

Value.....\$ 25.00

An orchard of about 50 bearing fruit trees of various kinds.

Value.....\$500.00

About 1/8 mile of poultry fence around dwelling.

Value.....\$ 50.00

About 1 mile of barbed wire fencing.

Value.....\$100.00

CHIRICAHUA NATIONAL FOREST

STATE OF ARIZONA

Chains A pole corral about 100 x 200 ft. long sides E. and W.,
 the SE. cor. of which bears bears from cor. No. 4.
 N. 81° 05' E., 175 lks. dist.
 Value.....\$ 50.00
 Total value of improvements.....\$1975.00

Description.

This claim is located along the valley traversed by East
 Whitetail Creek which is a dry water course during the
 greater part of the year.

The claim is located along a series of rolling hills
 rising gradually to the N. and S. of the water course.

The greater part of the land is rocky and arid and un-
 suitable for cultivation without resorting to irriga-
 tion. The soil is a gravelly loam, about one acre of
 which is planted to orchard which produces excellent
 and abundant fruit.

This claim is more suitable for a stock ranch than for
 farming purposes.

There is a small quantity of black walnut and sycamore
 timber along the banks of the creek and scattering
 scrub oak and juniper on the hillside.

A dug well supplies sufficient water for domestic pur-
 poses and to water about 200 head of stock and irrigate
 an orchard and small vegetable garden around the house.

While the claim is in a mineralized locality and some
 mining claims have been located on this claim, all of
 them have been abandoned and there appears to be no
 mineral deposits on the claim.

Paradise is the nearest postoffice. It is about eight
 miles dist. in a SE. direction and is reached by a fair
 wagon road.

Rodeo, the nearest trading center on the El Paso and
 Southwestern Railroad is about 25 miles dist. in a SE.

CHIRICAHUA NATIONAL FOREST

STATE OF ARIZONA

Chains direction and is reached by a good wagon road.

Conflicts and Adjoining Claims.

This claim is joined on the west by H.E. 024448, Geo. T. Colvin, H.E.S. 281, lines 2-3 and 12-13 of this claim being identical with lines 3-4 and 9-10 of H.E.S. 281.

There are no conflicts.

Traverses.

Tract A.

Cor.	Course	Dist.	N.	S.	E.	W.
1-2	N. 78° 11' W.	55.80	11.42			54.62
2-3	N. 4° 03' E.	13.79	13.76		.97	
3-4	S. 82° 22' E.	9.03		1.20	8.95	
4-5	N. 83° 12' E.	8.28		1.98	8.22	
5-6	S. 76° 42' E.	18.61		4.28	18.11	
6-7	N. 81° 39' E.	18.49		2.69	18.30	
7-1	S. 0° 04' E.	23.33		23.33	.03	
		<u>147.33</u>	28.85	28.81	54.58	54.62
			28.81			54.58
	Error in lat. and dep.			.04		.04
	Closing error 1:2604					

Tract B.

8-9	S. 81° 39' W.	18.53		2.69		18.33
9-10	N. 76° 42' W.	18.61	4.28			18.11
10-11	S. 83° 12' W.	8.30		.98		8.24
11-12	N. 82° 22' W.	9.05	1.20			8.97
12-13	N. 4° 03' E.	12.72	12.68		.90	
13-14	N. 80° 40' E.	19.37	3.14		19.11	
14-15	S. 40° 59' E.	19.80		14.95	12.99	
15-16	N. 82° 49' E.	20.81	2.60		20.65	
16-8	S. 0° 04' E.	5.29		5.29	.01	
		<u>132.48</u>	23.90	23.91	53.66	53.65
			23.90		53.65	
	Error in lat. and dep.			.01		.01
	Closing error 1:9396					

Survey completed May 7, 1915

Ca. Long
Surveyor Forest Service

CHIRICAHUA NATIONAL FOREST

STATE OF ARIZONA

Chains

Latitude $31^{\circ} 59' 36''$ N.

Longitude $109^{\circ} 14' 56''$ W.

L. m. t. of obsn. 3h. 13m. 00s.

Observed Vertical Angle $43^{\circ} 15' 00''$

Refraction correction $01' 02''$.

Reduced Vertical Angle $43^{\circ} 13' 58''$.

Declination of sun.

corrected for hourly change $16^{\circ} 08' 52''$.

Horizontal angle $227^{\circ} 44' 30''$.

$$\text{Cos. A} = \frac{\text{Sin } 16^{\circ} 08' 52''}{\text{Cos } 31^{\circ} 59' 36'' \times \text{Cos } 43^{\circ} 13' 58''}$$

$$(\text{Tan } 31^{\circ} 59' 36'' \times \text{Tan } 43^{\circ} 13' 58'')$$

$$\text{Log. Sin. } 16^{\circ} 08' 52'' = 9.4442255$$

$$\underline{9.7909274}$$

$$9.6532981 = \text{Log} + .45009$$

$$\text{Log. Cos. } 31^{\circ} 59' 36'' = 9.9284521$$

$$\text{Log. Cos. } 43^{\circ} 13' 58'' = \underline{9.8624753}$$

$$9.7909274$$

$$\text{Log. Tan. } 31^{\circ} 59' 36'' = 9.7956768$$

$$\text{Log. Tan. } 43^{\circ} 13' 58'' = \underline{9.9731924}$$

$$9.7688692 = \text{Log.} - .58731$$

$$- .58731 + .45009 = -.13722 = \text{Nat. Cos. of}$$

S. $82^{\circ} 06' 47''$ W., the bearing of sun, the bearing
of reference mark is N. $34^{\circ} 22' 17''$ E.

ET

NATIONAL FOREST

STATE OF ARIZONA

Chains

Chains

Latitude $31^{\circ} 59' 38''$ N.
Longitude $109^{\circ} 14' 58''$ W.
I. m. v. of obs. $31. 124. 008$.
Observed vertical angle $43^{\circ} 13' 00''$
Refraction correction $01' 02''$.
Reduced vertical angle $42^{\circ} 18' 58''$.
Distinction of sun.
Corrected for hourly change $1^{\circ} 08' 58''$.
Horizontal angle $237^{\circ} 44' 50''$.
Cor. A $31. 16. 06. 83''$
Cor. B $31^{\circ} 59' 38''$ x 0.08433 = $13' 58''$
($31^{\circ} 59' 38''$ x 0.08433 = $13' 58''$)
Cor. A $31. 16. 06. 83''$ = 2.444235
Cor. B $31. 59. 38. 00''$ = 2.790274
 $2.444235 + 2.790274 = 5.234509$
Log. Tan. $31^{\circ} 59' 38''$ = 2.792788
Log. Tan. $43^{\circ} 13' 58''$ = 2.971234
 $2.792788 - 2.971234 = -0.178446$
 $-0.178446 + 5.234509 = 5.056063$ = Log. of
 $2. 83^{\circ} 06' 44''$ W., the bearing of sun, the bearing
of reference mark is $2. 83^{\circ} 06' 44''$ W.

CHIRICAHUA NATIONAL FOREST

STATE OF ARIZONA.

Chains

AZIMUTH COMPUTATION.

(2)

Lat. and Long. as previously stated.

L. m. t. 3° 18' 47" p. m.

Observed Vert. Ang. 42° 02' 00".

Refraction correction 01' 04"

Reduced Vert. Ang. 42° 00' 56."

Declination of sun.

Corrected for hourly change 16° 08' 52"N.

Horizontal angle 228° 39' 30".

$$\frac{\text{Cos. A Sin } 16^{\circ} 08' 52''}{\text{Cos. } 31^{\circ} 59' 36'' \times \text{Cos } 42^{\circ} 00' 56''}$$

$$(\text{Tan } 31^{\circ} 59' 36'' \times \text{Tan } 42^{\circ} 00' 56'')$$

$$\begin{aligned} \text{Log. Sin } 16^{\circ} 08' 52'' &= 9.4442255 \\ & \quad \frac{9.7994194}{9.6448061} = \text{Log. } + .44137 \end{aligned}$$

$$\begin{aligned} \text{Log. Cos. } 31^{\circ} 59' 36'' &= 9.9284521 \\ \text{Log. Cos. } 42^{\circ} 00' 56'' &= 9.8709673 \\ & \quad \frac{9.7994194}{9.7994194} \end{aligned}$$

$$\begin{aligned} \text{Log. Tan } 31^{\circ} 59' 36'' &= 9.7956768 \\ \text{Log. Tan } 42^{\circ} 00' 56'' &= 9.9546745 \\ & \quad \frac{9.7503513}{9.7503513} - \text{Log. } - .56280 \end{aligned}$$

$$- .56280 + .44137 = -.12143 = \text{Nat. Cos. of S.}$$

83° 01' 30" W., the bearing of Sun, and reference mark bears N. 34° 22' 08" E., the mean of these two observations is N. 34° 22' 08" E.

212

HOMESTEAD ENTRY SURVEY NO.

NATIONAL FOREST

STATE OF

Chains

(2)
 Observed Vert. Ang. 42° 00' 00"
 Horizontal angle 91° 00'
 Reduced Vert. Ang. 42° 00' 00"
 Declination of sun.
 Corrected for hourly change 16° 08' 30"
 Horizontal angle 238° 30' 30"
 Obs. A. Sin 16° 08' 30"
 Cos. 31° 32' 30" x Cos 42° 00' 00"
 (Tan 31° 32' 30" x Tan 42° 00' 00")
 Log. Sin 16° 08' 30" = 9.44341
 9.73314
 2.28973 = Log. 4.1331
 Log. Cos. 16° 08' 30" = 9.98331
 9.87078
 9.11253
 Log. Tan 31° 32' 30" = 9.79875
 Log. Tan 42° 00' 00" = 9.96478
 9.16353
 Log. 4.1331 = Log. 4.1331
 - .0000 = Log. 1.0000
 4.1331 = Log. 13.50
 the bearing of 2nd and reference
 bearings 4° 52' 30" the mean of these
 two observations is 4° 52' 30"

- 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.
 3. In calculations for balancing fallings should be proportional to the lengths of the lines. 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. 280, STATE OF ARIZONA

8-2349

CORNERS.	BEARING.	DISTANCE.	LATITUDES.			DEPARTURES.		DOUBLE M. D.	N. AREAS.	S. AREAS.	
			NORTH.	SOUTH.	EAST.	WEST.	N. AREAS.				S. AREAS.
Tract A. 1-2	N. 78° 11' W.	55.80	11 42			54 62	54 60	622 99			
2-3	N. 4° 03' E.	13.79	13 76		97		97	13 34			
3-4	S. 82° 22' E.	9.03		1 20	8 95		10 89			13 18	
4-5	N. 83° 12' E.	8.28	98		8 22		28 06	27 50			
5-6	S. 76° 42' E.	18.61		4 28	18 11		54 40			233 38	
6-7	N. 81° 39' E.	18.49	2 69		18 30		90 83	244 33			
7-1	S. 0° 04' E.	23.33		23 33	03		109 17			2546 94	
		147.33	28 85	28 81	54 58	54 62		908 16		2793 50	
			28 85	28 85	54 60	54 60				908 16	
Trace B. 8-9	S. 81° 39' W.	18.53								20)1885 34	
9-10	N. 76° 42' W.	18.61	4 28	2 69		18 33	88 97			94 27	
10-11	S. 83° 12' W.	8.30		98		18 11	52 53	224 83		239 33	
11-12	N. 82° 22' W.	9.05	1 20		90	8 24	26 18				
12-13	N. 4° 03' E.	12.72	12 68		8 97		8 97	10 76		25 66	
13-14	N. 80° 40' E.	19.37	3 14		19 11		90	11 41			
14-15	S. 40° 59' E.	19.80		14 95	12 99		20 91	65 66			
15-16	N. 82° 49' E.	20.81	2 60		20 65		53 01			791 97	
16-8	S. 0° 04' E.	5.29		5 29	01		86 64	225 26			
		132.48	23 90	23 91	53 66	53 65	107 29			567 56	
			23 90	23 90	53 65	53 65		537 92		1624 52	
										537 92	
										20)1086 60	
										54 33	

213

ET

APPROVAL

Office of the United States Surveyor General,

Phoenix, Arizona, Feb. 26, 1918.

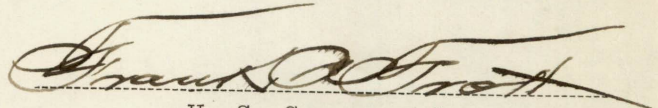
The foregoing field notes of Homestead Entry Survey No.

280

executed by C. A. Long, Surveyor,

[Forest Service Title.]

under his special instructions, dated October 1, 1914, having been critically examined, and the necessary corrections 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 the State of Arizona, has been correctly copied from the original notes on file in this office.

Frank P. Trott
U. S. Surveyor General.