

27
SEP-2 1916

U. S. DEPARTMENT OF AGRICULTURE
FOREST SERVICE

FIELD NOTES

July 5 - 1917

OF

HOMESTEAD ENTRY SURVEY NO. 362

SITUATED IN THE CHIRICAHUA NATIONAL FOREST

ADMINISTRATIVE DISTRICT NO. 3

In Section 35, un surveyed, Township 19 S., Range 30 E.

of the

Gila and Salt River Base and Meridian.

State of

ARIZONA

Applicant for listing Alexander Hughes, ✓
 Residence Chiricahua, Arizona
 Application No. 111 ✓, dated April 24, 1913
 List No. 3-2648 ✓, dated June 21, 1913 ✓

Applicant for survey Alexander Hughes, ✓
 Residence Chiricahua, Arizona
 H. E. No. 027361 ✓, dated May 6, 1915 ✓
 Land District Phoenix, Arizona

Survey executed by C. A. Long, Surveyor - Forest Service
[Forest Service Title.]
 Under special instructions dated June 4, 1915
 Survey commenced June 16, 1915
 Survey completed June 19, 1915
 Under Acts of June 11, 1906 and June 30, 1914 ✓

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. **362**, 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 oaths
to Assistants; hence, they
were taken by the Surveyor.

C. A. Long

Rev. Chairman

Chester A. Lee

Head Chairman

Subscribed and sworn to before me this **19th** day of
June, 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
June 4, 19 **15**, 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. **3-2648**, dated **June 21**, 1913, for
Patent, under the Act of **June 11**, 1906,
the same to be known as Homestead Entry Survey No. **362**,
situated within the **CHIRICAHUA** National Forest, in
unsurveyed Section 35, Township **19 S.**, Range **30 E.**, and
-- surveyed Section -- --, Township **-- --**, Range **-- --**,

of the **G. and S. R. B. and** 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, 191**6**.

Elmer C. Myers

Notary Public



CHIRICAHUA NATIONAL FOREST

STATE OF ARIZONA

Chains Applicant for listing, Alexander Hughes; Application No. 111, dated April 24, 1913; List No. 3-2648, dated June 21, 1913; H. E. 027361, made in the Phoenix Land Office on May 6, 1915 by Alexander Hughes.

Surveyed under special instructions from the Surveyor General for Arizona, dated June 4, 1915 and designated as Homestead Entry Survey No. 362.

Situated in sec. 35, T. 19 S., R. 30 E., unsurveyed, Gila and Salt River Base and Meridian, Chiricahua National Forest, Arizona.

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

Survey commenced June 16, 1915 and executed with a Buff and Buff transit No. 9699, equipped with Smith solar attachment.

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

The stadia is adjusted to read 1:132.

All measurements were made directly on the slope with a 500 link steel tape and the slope angles were determined with a clinometer.

June 16, 1915.

My watch was compared with standard telegraphic time today and the necessary correction applied.

At my camp, which is located 24.00 chs. due North of the 1/4 sec. cor. bet. secs. 2 and 35, T. 19 S., R. 30 E.

Longitude 109° 15' W., derived from the special instructions from the Surveyor General. At this point I set

off 23° 20' 30" N. on the decl. arc, and at 12h. 00m.

16s. l.m.t., observe the sun on the meridian. The re-

sulting lat. is 31° 45'.

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Chains At the same station at 3h. 00m. p.m., l.m.t., I set off $31^{\circ} 45'$ on lat. arc, $23^{\circ} 21'$ N. on decl. arc, and mark the meridian thus determined with the solar by a cross on a stake driven in the ground 5.00 chs. N. of my station.

At the same station I clamp the plate of my instrument at zero, and with telescope direct sight to a well defined mark on a mountain about one mile distant, and at 7h. 20.5m. p.m., l.m.t., I unclamp the limb and turn to the East until the vertical hair bisects Polaris. The resulting angle between reference mark and Polaris is $7^{\circ} 43'$.

Greenwich m.t. U.C. Polaris, June 16, 1915, 7h. 54.7m.a.m.

Sidereal Correction, 01.2m.
7h. 53.5m.

Astron. l.m.t. U.C. Polaris, June 15, 1915, 19h. 53.5m.

Astron. l.m.t. of obsn., June 15, 1915, 31h. 20.5m.

Hour angle, 11h. 27.0m.

Azimuth of Polaris at obsn., $179^{\circ} 49' 06''$
 $7^{\circ} 43' 00''$

Azimuth of reference mark, $172^{\circ} 06' 06''$, or a
Bearing of N. $7^{\circ} 53' 54''$ W.

(2)

At 7h. 36.1m. p.m., l.m.t., I again observe Polaris as already described, with telescope reversed, and obtain an angle of $7^{\circ} 48'$ between reference mark and Polaris.

Astron. l.m.t. U.C. Polaris, June 15, 1915, 19h. 53.5m.

Astron. l.m.t. of obsn., June 15, 1915, 31h. 36.1m.

Hour angle, 11h. 42.6m.

Azimuth of Polaris at obsn., $179^{\circ} 54' 36''$
 $7^{\circ} 48' 00''$

Azimuth of reference mark, $172^{\circ} 06' 36''$, or a
Bearing of N. $7^{\circ} 53' 24''$ W.

The bearing of reference mark as determined from the mean

CHIRICAHUA NATIONAL FOREST

STATE OF ARIZONA

Chains

of the two observations is N. 7° 53' 39" W.

June 17, 1915.

I set off the azimuth of reference mark, 7° 53' 39" to the East and mark the meridian thus determined by driving a tack in the stake set last evening, on which the meridian falls 0.3 ins. West of the mark determined by the solar.

At 8h. 00m. a.m., l.m.t., I set off 31° 45' on lat. arc, 23° 22' 30" N. on decl. arc, and mark the meridian determined with the solar by a cross on the stake already set 5.00 chs. N. of my station. This mark falls 0.1 ins. West of the meridian established by Polaris observation. The solar apparatus, by p.m. and a.m. observations; defines positions for meridians 16" East and 5" West of the meridian established by Polaris observations. Therefore, I conclude that the adjustments of my instrument are satisfactory.

June 17, 1915.

Retracements.

At 9h. 00m. a.m., l.m.t., I set off 31° 45' on lat. arc, 23° 22' 30" on decl. arc, and determine a meridian with the solar at the 1/4 sec. cor. bet. secs. 1 and 36, which is a limestone firmly set, marked and witnessed as described by the Surveyor General.

Thence West.

On a random line bet. secs. 1 and 36, W/2, through dense oak brush.

40.10 Fall 8 lks. S. of the cor. to secs. 1, 2, 35 and 36, which is a granite stone 12 x 8 x 6 ins. loosely set in the ground, marked and witnessed as described by the Surveyor General. I raise a mound of stone around cor.

Chains

Return course S. 89° 53' E., 40.10 chs.

Thence West.

On a random line bet. secs. 2 and 35, E/2, through dense oak brush.

40.13 Fall 43 lks. North of the 1/4 sec. cor. bet. secs. 2 and 35, which is a granite stone 6 x 8 x 14 ins. loosely set in the ground, marked and witnessed as described by the Surveyor General. I raise a mound of stone around cor.

Return course N. 89° 23' E., 40.13 chs.

June 17, 1915

BOUNDARIES OF CLAIM

June 18, 1915.

Deposit a porphyry stone 2 x 3 x 4 ins. marked with a cross 14 ins. in the ground, over which set a porphyry stone 6 x 16 x 24 ins., chiseled cross for the point and 1 - H E S 362 on the NW. face; raise a mound of stone 4 ft. base, 3 ft. high NW. of cor., whence:

A nail in a black oak, 10 ins. dia., bears N. 46° 20' E., 123 lks. dist.

A nail in a black oak, 10 ins. dia., bears S. 46° 51' E., 178 lks. dist.

Each blazed and scribed 1 H E S 362 B T.

The cor. to secs. 1, 2, 35 and 36, heretofore described, bears N. 89° 23' E., 6.56 chs. dist. by direct measurement.

The 1/4 sec. cor. bet. secs. 2 and 35, heretofore described, bears S. 89° 23' W., 33.57 chs. dist., by direct measurement.

Cor. H-1 of the list survey, which is a porphyry stone 5 x 8 x 12 ins. above ground, marked and witnessed as described by the

CHIRICAHUA NATIONAL FOREST

STATE OF ARIZONA

Chains

Forest Service, bears North, 5 lks. dist.
 I destroy all trace of this list cor.
 The observed magnetic declination, at 8:00 a.m., is 13°
 30' E., which corrected for diurnal change gives a mean
 magnetic declination of 13° 26' E.
 Latitude 31° 44' 33" N., Longitude 109° 14' 30" W., from
 special instructions from the Surveyor General.
 At 8h. 00m. a.m., l.m.t., I set off 31° 45' on the lat.
 arc, 23° 24' 30" N. on decl. arc, and determine a
 meridian with the solar at cor. No. 1.
 Thence N. 81° 50' W.
 Over level land, through dense oak brush.

37.74

To cor. No. 2.
 Identical with cor. H-2 of the list survey, which is
 a granite stone 5 x 10 x 15 ins. above ground, marked
 and witnessed as described by the Forest Service. I
 destroy all trace of this list cor. Deposit a porphyry
 stone 1 x 3 x 3 ins. marked with a cross 14 ins. in
 the ground, over which set a granite stone 12 x 14 x 20
 ins. (no longer stone available), chiseled cross for the
 point and 2 - H E S 362 on NE. face; and raise a mound
 of stone 4 ft. base, 3 ft. high, NE. of cor., whence:
 A nail in a black oak, 14 ins. dia., bears
 N. 63° 02' E., 85 lks. dist.
 A nail in a black oak, 10 ins. dia., bears
 S. 0° 54' W., 79-1/2 lks. dist.
 Each blazed and scribed 2 H E S 362 B T.

Thence N. 0° 16' E.
 Over level land, through dense oak brush.

30.14

To cor. No. 3.
 Identical with cor. H-3 of the list survey, which is
 a granite stone 8 x 10 x 15 ins. above ground, marked
 and witnessed as described by the Forest Service. I

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Chains

destroy all traces of this list cor. Deposit a limestone 1 1/2 x 3 x 4 ins. marked with a cross 1 1/4 ins. in the ground, over which set a porphyry stone 3 x 1 1/4 x 2 1/2 ins. (no longer stone available), chiseled cross for the point and 3 - H E S 362 on SE. face; and raise a mound of stone 4 ft. base, 3 ft. high, SE. of cor., whence:

- A nail in a white oak, 10 ins. dia., bears N. 49° 10' W., 129 lks. dist.
- A nail in a black oak, 10 ins. dia., bears N. 60° 57' E., 99 lks. dist.
- Each blazed and scribed 3 H E S 362 B T.

Cor. R 3 of the Price Canyon Administrative Site was set alongside H-3 of this List, and as this Administrative Site has been released, I destroy R-3.

Thence S. 70° 18' E.

Over level land, through dense oak brush.

40.15

To cor. No. 4. Identical with cor. H-4 of the list survey, which is a granite stone 8 x 12 x 15 ins. above ground, marked and witnessed as described, by the Forest Service. I destroy all trace of this list cor. Deposit a granite stone 2 x 3 x 5 ins. marked with a cross 1 1/4 ins. in the ground, over which set a granite stone 8 x 14 x 20 ins. (no longer stone available), chiseled cross for the point and 4 - H E S 362 on SW. face; dig pits 24 x 24 x 12 ins. on each line and raise a mound of earth 3 ft. base, 2-1/2 ft. high, SW. of cor., whence:

- A nail in a black oak, 12 ins. dia., bears S. 48° 37' W., 116 lks. dist.
- A nail in a white oak, 12 ins. dia., bears N. 20° 17' W., 45 lks. dist.

Each blazed and scribed 4 H E S 362 B T.

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Chains Cor. R-4 of the Price Canyon Administrative Site was set
alongside of cor. H-4 of this List, but as the Adminis-
trative Site has been released, I destroy R-4.

June 18, 1915.

June 19, 1915.
At 8h. 01m. a.m., 1.m.t., I set off 31° 45' on lat. arc,
23° 25' 54" N. on decl. arc, and determine a meridian
at cor. No. 4.
Thence S. 1° 49' W.
Over level land, through dense oak brush.
To cor. No. 1, the place of beginning.

AREA

Total Area ----- 98.33 acres.

IMPROVEMENTS

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

A corrugated iron house, 18 x 24 ft., course of long
sides E. and W., the NE. cor. of which bears S. 29°
53' E., 15.63 chs. dist. from cor. No. 3.
Value ----- \$150.00

A pole corral, 40 x 75 ft., course of long sides E. and
W., the NE. cor. of which bears S. 44° 10' E., 18.16
chs. dist. from cor. No. 3.
Value ----- \$ 50.00

An earth tank, 50 x 100 ft., course of long sides N.
and S., the NW. cor. of which bears S. 45° 06' E.,
20.28 chs. dist. from cor. No. 3.
Value ----- \$150.00

A dug well, 37 ft. deep (dry), the center of which
bears S. 32° 50' E., 16.44 chs. dist. from cor. No. 3.
Value ----- \$ 75.00

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Chains	About one mile of barbed wire fencing.	
	Value -----	\$100.00
	Total value of improvements -----	\$525.00

GENERAL DESCRIPTION

This claim is located on level land along the South side of Price Canyon. The soil is a sandy loam, second rate.

About 10 acres have been cleared of oak brush and planted in beans and corn, which appear to be in very poor condition for lack of rain.

Farming in this locality is a very uncertain occupation as the rainfall is seldom sufficient to bring crops to maturity and there is no water for irrigation. The uncleared land is covered with a dense growth of oak brush, but there is no merchantable timber on the claim, or evidence of any mineral deposits.

There is no water on the claim. Water for domestic use and for watering a few head of stock is obtained from a dug well in the bed of Price Canyon, about 20 chains N. of the claim. This well goes dry during the late summer and it is then necessary to haul water for all purposes from a spring located a good distance up the canyon.

Chiricahua, on the El Paso and Southwestern Railroad, is the nearest post office and trading place. It is about 10 miles distant in a Southerly direction and is reached by a fair wagon road.

CONFLICTS AND ADJOINING CLAIMS.

There are no conflicts. The Price Canyon Administrative Site, now released, joined this claim on line 3-4.

H. E. S. 269 lies about one mile East of this claim.

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STATE OF ARIZONA

Chains

TRAVERSE

Cor.	Course	Dist.	N	S	E	W
1-2	N. 81° 50' W.	37.74	5.36 ✓			37.36 ✓
2-3	N. 0° 16' E.	30.14	30.14 ✓		0.14 ✓	
3-4	S. 70° 18' E.	40.15		13.53 ✓	37.80 ✓	
4-1	S. 1° 49' W.	21.98		21.97 ✓		0.70 ✓
		130.01	35.50	35.50	37.94	38.06
Error in Lat. and Dep.				.00		.12

Closing error, 1:1083.

Survey completed June 19, 1915.

La Lou
Surveyor - Forest Service

Chains

Course	Dist.	Angle	Dist.	Angle	Dist.	Angle
1-2	87.74	81° 50'	87.74	81° 50'	87.74	81° 50'
2-3	30.14	90° 16'	30.14	90° 16'	30.14	90° 16'
3-4	40.15	70° 18'	40.15	70° 18'	40.15	70° 18'
4-1	81.98	1° 43'	81.98	1° 43'	81.98	1° 43'
Total in Dist. and Dep.						
Closing error, 1:1083						
Survey completed June 19, 1915.						

Surveyor - Forest Service

- 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. 362, STATE OF Arizona, Alexander Hughes.

CORNERS.	BEARING.	DISTANCE.	LATITUDES.			DEPARTURES.		DOUBLE M. D.	N. AREAS.	S. AREAS.
			NORTH.	SOUTH.	EAST.	WEST.				
1-2	N. 81° 50' W.	37.74	5 36			37 36	37 33	200 09		
2-3	N. 0° 16' E.	30.14	30 14		0 14	19 14	17	5 12		
3-4	S. 70° 18' E.	40.15		13 53	37 80	68 80	38 18		516 58	
4-1	S. 1° 49' W.	21.98		21 97		70	75 34		1655 22	
		130.01	35 50	35 50	37 94	38 06		205 21	2171 80	
					37 94	12			205 21	
					38 01	38 01			20/1966 59	
									98 33 A.	

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APPROVAL

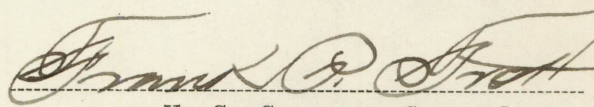
Office of the United States Surveyor General,

Phoenix, Arizona, June 14 , 1917

The foregoing field notes of Homestead Entry Survey No.

362

executed by **C. A. Long, Surveyor-Forest Service** [Forest Service Title.]
under his special instructions, dated **June 4** , 1915, 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.