

ORIGINAL

U. S. DEPARTMENT OF AGRICULTURE
FOREST SERVICE

31
APR 11, 1920
MAY 19, 1920
JUN -4 1920

FIELD NOTES

OF

HOMESTEAD ENTRY SURVEY NO. 435

SITUATED IN THE CROOK NATIONAL FOREST

ADMINISTRATIVE DISTRICT NO. 3

In Section 31, unsurveyed, Township 1 N., Range 13 E.
In Section 32, unsurveyed, Township 1 N., Range 13 E.

of the

GILA AND SALT RIVER BASE & Meridian.

State of

ARIZONA

Applicant for listing	T. M. Cox,
Residence	Superior, Arizona.
Application No. 235	, dated February 14, 19 13
List No. 3-3147	, dated May 5, 19 14

Applicant for survey	William T. Toney,
Residence	Superior, Arizona.
H. E. No. 026567	, dated January 20, 19 15
Land District Office,	Phoenix, Arizona.

Survey executed by	F. L. Kirby, Forest Ranger - Forest Service,
	[Forest Service Title.]
Under special instructions dated	December 23, 19 15
Survey commenced	April 30, 19 19
Survey completed	May 1, 19 19
Under Acts of	June 11, 1906 and October 1, 1918.

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F. S. D-3
FEB 28 1920
Referred to
DISTRICT FORESTER

OATH OF ASSISTANTS

We hereby certify that we assisted **F. L. Kirby, Forest Ranger - Forest Service,** in surveying all those parts or portions of Homestead Entry Survey No. **435**, 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 established, according to the instructions furnished by the United States Surveyor General for **ARIZONA**

Note: It would have been very expensive and inconvenient to appear before an officer to administer oath to Assistant; hence, it was taken by the Surveyor.

Rae Clark
Chainman,

Subscribed and sworn to before me this **1st** day of **May**, 19 **19**

F. L. Kirby
Forest Ranger - Forest Service,

OATH OF SURVEYOR

I, **F. L. Kirby, Forest Ranger - Forest Service,** do solemnly swear that, in strict conformity with the special instructions of the United States Surveyor General for **ARIZONA**, dated **December 23, 1915**, 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. **3-3147**, dated **May 5, 1914**, for **Patent**, under the Act of **June 11, 1906**, the same to be known as Homestead Entry Survey No. **435**, situated within the **CROOK** National Forest, in **unsurveyed Section 31**, Township **1 N.**, Range **13 E.**, and **unsurveyed Section 32**, Township **1 N.**, Range **13 E.**

of the **GILA AND SALT RIVER BASE & 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.

F. L. Kirby
Forest Ranger - Forest Service,
[Forest Service Title.]

Subscribed and sworn to before me this **21st** day of **February**, 19 **20**.

Heimer Thomas
Notary Public



Chains Applicant for listing, T. M. Cox; Application No. 235, dated February 14, 1913; List No. 3-3147, dated May 5, 1914; H. E. 026567, made in the Phoenix Land Office on January 20, 1915, by William T. Toney.

Surveyed under special instructions from the Surveyor General for Arizona, dated December 23, 1915, and designated as Homestead Entry Survey No. 435.

Situated in what will probably be when surveyed, Secs. 31 and 32, T. 1 N., R. 13 E., Gila and Salt River Base and Meridian, Crook National Forest, Arizona.

Surveyed under Acts of June 11, 1906 and October 1, 1918.

Survey commenced April 30, 1919, and executed with an A. Lietz Mining Transit No. 6384, equipped with Saegmuller solar attachment.

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

All distances are horizontal and were reduced from measurements made directly on the slope with a 400 link steel tape. The slope angles were determined with a clinometer.

April 30, 1919.

At my station near Cor. No. 1 of the survey in Lat. 33° 22' 37" N., Long. 111° 02' 54" W. from Special Instructions from the Surveyor General and later verified, I observe Polaris at Eastern Elongation as follows:

Telescope	l.m.t. a.m.	Angle Star-E. to Mark
Direct	5h. 00m.	47° 55'
Reversed	5h. 05m.	47° 54' 30"
Direct	5h. 08m.	47° 55'
Reversed	5h. 11m.	47° 54' 30"
Mean	5h. 06m.	47° 54' 45"

Azimuth of Polaris, 1° 21' E.

Bearing of reference Mark, N. 49° 15' 45" E.

I accept bearing of reference mark as N. 49° 16' E. and to the corresponding meridian all the courses of this survey are referred by sustained angulation.

Chains

RETRACEMENTS AND RESURVEYS

April 30, 1919.

Beginning at the Std. Cor. of T. 1 N., Rs. 12 and 13 E., which is a rock in place marked and witnessed as described by the Surveyor General.

Thence East, (Record course S. 89° 53' E.)

On a random line along S. bdy. of Sec. 31, W/2.

38.42 Make careful search for Std. 1/4 Cor. but fail to find any evidence of same. Continue on line (Record course S. 89° 48' E.)

40.00 Make careful search for Std. 1/4 cor. but fail to find any evidence of same.

76.96 Fall 2 lks. S. of Std. Cor. Secs. 31 and 32, a limestone 15x5x7 ins. lying loose on top of ground, mkd as described by Surveyor General. I build mound of stone 3 ft. base 1 ft. high around cor., and raise a mound of stone 3 ft. base 2 ft. high N. of cor.

The record courses show the south bdy. of this section to be irregular or broken. I therefore resurvey same in accordance with instructions contained in paragraph 380 of advance sheets of General Land Office Manual of Instructions for the survey of Public Lands.

I determine the dist. to point for Std. 1/4 Cor. by the following proportional measurement:

$$76.62 \text{ (record)} : 76.96 \text{ (measured)} :: 38.20 \text{ (record)} : 38.37. \quad 76.96 - 38.37 \text{ (E/2)} = 38.59 \text{ (W/2).}$$

From the initial point, the std. cor. of T. 1 N., Rs. 12 and 13 E. I calculate the falling at 38.59 ch.pt. on random line to pt. for std. 1/4 cor. on the record course, to be south 8 lks., and at the 76.96 ch.pt. to pt. for std. cor. Secs. 31 and 32 on record course to be South 22 lks., making the total falling 24 lks. south of the cor. as found on the ground. I determine the true point for std. 1/4 cor. by the following proportion:

$$76.96 : 38.59 :: 24 : 12$$

Therefore pt. for std. 1/4 cor. on S. bdy. of Sec. 31 bears N. 89° 58' W. 38.37 chs. dist.

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Chains
38.37

Thence N. 89° 58' W., on true line, along S. bdy of Sec. 31.

I again make diligent search for std. 1/4 cor. but fail to find any evidence of same. This cor. has evidently been destroyed by a rock slide which has occurred apparently within the past ten years. I reestablish 1/4 cor. as follows:

Set a lava stone 10x12x24 ins. 14 ins. in ground chiseled 1/4 S C on N. face, and raise a mound of stone 2 ft. base, 1-1/2 ft. high W. of cor.

Thence S. 89° 56' W.

On a true line along S. bdy. of Sec. 31, W/2.

76.96 Cor. of T. 1 N., Rs. 12 and 13 E. heretofore described.

BOUNDARIES OF CLAIM

Beginning at Cor. No. 1, and Closing Corner on South bdy. of Sec. 31.

Deposit a red sandstone 4x6x6 ins. marked with a + 26 in. in the ground, over which set an iron post 2 ins. dia., 36 ins. long, with brass cap marked 1919 on S. rim, 1 H E S 435 in quadrant facing claim and C C South of center point; raise a mound of stone 3 ft. base, 2 ft. high N. 12° 56' E. of cor., whence:

A white oak 10 ins. dia., bears S. 25° 50' E. 60 lks. dist.

A white oak 6 ins. dia., bears N. 69° 36' E., 35 lks. dist.

Each blazed and scribed C C 1 H E S 435 + B T. Std. cor. of Secs. 31 and 32, heretofore described, bears S. 89° 58' E., 10.62 chs. dist.

Std. 1/4 cor. on S. bdy. of Sec. 31, heretofore described, bears N. 89° 58' W., 27.75 chs. dist.

Cor. H/2 of the list survey, a limestone 8x8x4 ins. above ground, mkd. and witnessed as described by the Forest Service, bears S. 4° 39' E. 2.10 chs. dist. I destroy all trace of this list cor.

Lat. 33° 22' 37" N., Long. 111° 02' 54" W., from Special Instructions from Surveyor General, and later verified.

The observed mag. decl. at 8h. 00m. a.m. is 14° 30' E.
Mean mag. decl. 14° 27' E.

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Chains Thence N. 55° 28' W.
Over brushy bottom.

7.30 Right bank Haunted Canyon Creek, 3 ft. high, course N.75°E.

7.80 Left bank Haunted Canyon Creek, 2 ft. high, course N.75°E.
Thence over brushy flat.

8.60 Base of hill. Asc. 45 ft. thru dense brush, over rocky SE. slope.

12.23 To Cor. No. 2.
Identical with Cor. H/3 of the list survey, which is a limestone 12x12x6 ins. above ground, mkd. and witnessed as described by the Forest Service. I destroy all trace of this list cor.
Deposit a limestone 4x3x3 ins. mkd. with a + 16 ins. in the ground, over which set a limestone 26x9x6 ins. chiseled + for the point and 2 H E S 435 on NE. face; raise a mound of stone 2 ft. base, 1-1/2 ft. high, NE. of cor., whence:
A black oak 4 ins. dia., bears N. 56°20' E., 100 lks. dist., blazed and scribed 2 H E S 435 + B T.
A + on an embedded limestone 48x24x12 ins. above ground, bears N. 26°25' W., 46 lks. dist., chiseled 2 H E S 435 + B R.

April 30, 1919.

May 1, 1919.

Thence N. 14° 55' E.

Asc. brushy SE. slope, 10 ft.

1.40 Ridge, bears NE. and SW. Desc. NE. slope 50 ft.

29.60 Ravine, course East. Asc. SE. slope 60 ft.

45.20 Ridge bears E. and W. Desc. NE. slope 70 ft.

63.40 Arroyo 20 lks. wide, banks 4 ft. high, course East. Asc. SE. slope 30 ft.

75.17 To Cor. No. 3.,
Identical with Cor. H/4 of the list survey, which is a limestone 12x4x6 ins. above ground, mkd. and witnessed as described by the Forest Service. I destroy all trace of this list cor.
Deposit a limestone 4x4x3 ins. mkd. with a + 15 ins. in the ground, over which set a limestone 25x14x7 ins. chiseled + for the point and 3 H E S 435 on SE. face; raise a mound of stone 2 ft. base, 1-1/2 ft. high SE. of cor. whence:

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A laurel 5 ins. dia., brs. S. 40° 00' E.,

43 lks. dist.

A mahogany 4 ins. dia., brs. S. 27° 00' E.,

32 lks. dist.

Each blazed and scribed 3 H E S 435 + B T

Thence S. 71° 30' E.

Desc. brushy E. slope 40 ft.

7.40 Haunted Canyon Creek, 80 lks. wide, banks 2 ft. high,
course N., Asc. brushy W. slope, 20 ft.

8.87 To Cor. No. 4.

Identical with Cor. H-1 of the list-survey, which is
an embedded limestone 36 x 24 x 15 ins. above ground,
mkd. and witnessed as described by the Forest Service.

I destroy all trace of Cor. H-1 and its witnesses, and
for Cor. No. 4 of this survey, I chisel same stone + for
the point and 4 H E S 435 on SW. face; raise a mound of
stone 2 ft. base, 1-1/2 ft. high, E. of cor., (impracti-
cable to place mound in any other position), whence:

A holly 4 ins. dia., bears N. 30° 00' E.,
29 lks. dist.

A white oak 4 ins. dia., brs. S. 8° 30' E.,
66 lks. dist.

Each blazed and scribed 4 H E S 435 + B T.

F.S.M. to which list survey, was tied, a granite
stone 4 x 4 x 6 ins. above ground, and mound
of stone, marked and witnessed as described
by the Forest Service, bears S. 25° 00' W.,
21.50 chs. dist. I destroy all trace of
this monument.

HOMESTEAD ENTRY SURVEY NO. 435

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Chains	Thence S. 12° 56' W.
	Desc. brushy W. slope, 35 ft.
2.00	Cease descending and asc. NW. slope 35 ft.
12.50	Spur, bears West. Desc. rolling W. slope, 30 ft.
28.30	Cease descending and asc. rolling W. slope, 50 ft.
56.80	Ridge, bears E. and W. Desc. SW. slope, 30 ft.
76.57	East Fork Haunted Canyon Creek, 30 lks. wide, banks 3 ft. high, course WNW. Asc. N. slope 5 ft.
78.73	To Cor. No. 1, the place of beginning.

AREA

Total area --- 78.05 Acres

IMPROVEMENTS

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

- A log dwelling 18 x 12 ft., the long sides extending N. and S. and the SW. cor. of which bears N. 20° E. 31.87 chs. from Cor. No. 2, Value --- \$ 200.00
- Approximately 3/4 mile of wire fencing, Value --- \$ 75.00

DESCRIPTION

This claim is situated on Haunted Canyon, a tributary of Salt River, and is valuable for orchard and stock raising.

The soil is a sandy loam and will produce the ordinary crops of the temperate zone. Good crops of barley hay and vegetables have been produced. At the time of survey there were approximately 6 acres of cultivated

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land planted to young orchard.

Sufficient water for all purposes flows in Haunted Canyon.

This section is not timbered. Sycamore grows along the creek.

This section is not known to be mineralized and no townsites, mining, coal or oil claims are known to have been located in conflict herewith.

Superior, Arizona, the nearest postoffice and railway station is 14 miles by trail in a Southerly direction.

CONFLICTS AND ADJOINING CLAIMS

There are no conflicts or adjoining claims.

TRAVERSES

Course	Dist.	N.	S.	E.	W.
N. 55° 28' W.	12.23'	6.93			10.08
N. 14° 55' E.	75.17'	72.64		19.35	
S. 71° 30' E.	8.87'		2.81	8.41	
S. 12° 56' W.	78.73'		76.73		17.62
	175.00'	79.57	79.54	27.76	27.70
		79.54		27.70	
Error in Lat. and Dep.		.03		.06	

Closing Error, 1:2609.

Survey completed May 1, 1919.

F. L. Kirby
Forest Ranger - 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. 435, STATE OF ARIZONA

CORNERS.	BEARING.	DISTANCE.	LATITUDES.		DEPARTURES.		DOUBLE M. D.	N. AREAS.	S. AREAS.
			NORTH.	SOUTH.	EAST.	WEST.			
1 - 2	N. 55-28 W.	12.23	6 93			10 08	69 85		
2 - 3	N. 14-55 E.	75.17	72 64		19 35	19 32	1403 21		
3 - 4	S. 71-30 E.	8.87		2 81	8 41	47 05		132 21	
4 - 1	S. 12-56 W.	78.73		76 73	17 62	37 81		2901 92	
		175.00	79 57	79 54	27 76	27 70	1473 06	3084 12	
	Error in Lat. and Dep.		79 54	79 56	27 70			1473 06	
	Closing Error, 1:2609		03		06			20/1561 06	78 05 Acres.

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APPROVAL

Office of the United States Surveyor General,

Phoenix, Arizona, June 7, 1920

The foregoing field notes of Homestead Entry Survey No.

435

executed by *F. L. Kirby, Forest Ranger* [Forest Service Title.]
under his special instructions, dated *December 23*, 1915, having
been critically examined, and the necessary corrections and explanations
made, the said field notes, and the surveys they describe, are hereby
approved.

Frank P. Trott
U. S. Surveyor General.

I certify that the foregoing transcript of the field notes of the
above-described survey in the State of *Arizona*, has been
correctly copied from the original notes on file in this office.

FRANK P. TROTT

U. S. Surveyor General.