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U. S. DEPARTMENT OF AGRICULTURE
FOREST SERVICE

APR 13- 1917

FIELD NOTES

JUN 29 1917

OF

HOMESTEAD ENTRY SURVEY NO. 434

SITUATED IN THE CROOK NATIONAL FOREST

ADMINISTRATIVE DISTRICT NO. 3

In Section 24, unsurveyed, Township 5 N. , Range 16 E.

of the

Gila and Salt River Base and Meridian.

State of

ARIZONA

Applicant for listing	W. L. Nail,
Residence	Globe, Arizona
Application No.	203 ✓, dated January 22, 1912 ✓
List No.	3-2494 ✓, dated April 23, 1913 ✓

Applicant for survey	W. L. Nail,
Residence	Globe, Arizona
H. E. No.	023173 ✓, dated September 16, 1913 ✓
Office	
Land District	Phoenix, Arizona

Survey executed by	R. P. A. Johnson,	Surveyor - Draftsman
		<small>[Forest Service Title.]</small>
Under special instructions dated		December 2, 1915 ✓
Survey commenced		April 4, 1916
Survey completed		April 5, 1916
Under Acts of	June 11, 1906 and March 4, 1915 ✓	

OATH OF ASSISTANTS

We hereby certify that we assisted R. P. A. Johnson
Surveyor Draftsman [Forest Service Title.] in surveying all those
 parts or portions of Homestead Entry Survey No. 434, 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 inconvenient to appear before an officer to administer oaths to Assistants; hence, they were taken by the Surveyor.

Nelson F. Newman, Chainman

Ferry D. Lewis, Chainman

Subscribed and sworn to before me this twenty seventh day of
May, 1916. R. P. A. Johnson
Surveyor Draftsman

OATH OF SURVEYOR

I, R. P. A. Johnson *Surveyor Draftsman*
 [Forest Service Title.]
 do solemnly swear that, in strict conformity with the special instruc-
 tions of the United States Surveyor General for Arizona, dated
December 2, 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

Lot, No. 3-2494 dated April 23, 1913, for
patent, under the Act of June 11, 1906,
 the same to be known as Homestead Entry Survey No. 434,
 situated within the Crook National Forest, in
unsurveyed Section 24, Township 5N., Range 16E, and
surveyed Section -----, Township -----, Range -----,

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.

DISTRICT OF COLUMBIA
 CITY OF WASHINGTON

R. P. A. Johnson
Surveyor Draftsman
 [Forest Service Title.]

Subscribed and sworn to before me this 17th day of
January, 1917.

Sylvester L. McLaughlin

 NOTARY PUBLIC, D. C.



Commission expires
 June 20, 1918.

CROOK NATIONAL FOREST

STATE OF ARIZONA

Chains

Applicant for listing, W. L. Nail; Application No. 203, dated January 22, 1912; List No. 3-2494, dated April 23, 1913; H. E. 023173, made in the Phoenix Land Office on September 16, 1913 by W. L. Nail.

Surveyed under special instructions from the Surveyor General for Arizona, dated December 2, 1915 and designated as Homestead Entry Survey No. 434.

Situated in T. 5 N., R. 16 E., in what will probably be, when surveyed, Section 24, Gila and Salt River Base and Meridian, Crook National Forest, Arizona.

Surveyed under the Acts of June 11, 1906 and March 4, 1915.

Survey commenced April 4, 1916 and executed with a Buff and Buff transit equipped with Smith 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 500 link steel tape. The slope angles were determined with a clinometer.

April 4, 1916.

At 2h. 35m. p.m., l.m.t., I set off $33^{\circ} 45'$ on Lat. arc, $5^{\circ} 50' 30''$ N. on decl. arc and determine a meridian with the solar at cor. No. 1, hereinafter described.

I observe the altitude of the sun for azimuth at cor. No. 1 of this survey, hereinafter described. The reading on the meridian determined with the solar is set at zero and the sun was observed in the upper left and lower right quadrants of the field. My watch is set for local mean time. Latitude $33^{\circ} 45' 10''$ N., Longitude $110^{\circ} 40' W.$, by account from the special instructions from the Surveyor General.

CROOK NATIONAL FOREST

STATE OF ARIZONA

Chains	Telescope	Time	Horizontal Angle	Vertical Angle
	Direct	4h. 49m. 18s.	84° 28' 00"	18° 51' 30"
	Reversed	4h. 50m. 39s.	84° 07' 00"	19° 06' 00"

Difference from meridian determined by solar attachment, 0° 00' 34".

At 6h. 33.9m. p.m., l.m.t., I observe Polaris with telescope direct and reversed at Western Elongation at cor. No. 1. The reading on the meridian determined by direct solar is set at zero. The mean horizontal angle E. of star is 1° 22'. The azimuth of Polaris is 1° 21' 35" to W. The meridian thus determined therefore differs 0° 00' 25" from the meridian determined by direct solar.

Survey begun in p.m. on the 4th. and finished in a.m. on the 5th. Therefore no lat. obsn. possible.

April 4, 1916.

There being no cor. of Public Land survey or U. S. L. M. within two miles, I establish U. S. L. M. No. 434 H. E.

S. on backbone of long ridge between Salt River and Hay Stack Wash, 1/2 mile East of and 450 ft. above salt River. I mark + U S L M No 434 H E S on top of an embedded granite rock 5 x 4 x 2 ft. above ground; and raise a mound of stone 6 ft. base, 4 ft. high alongside, whence:

A + on a granite boulder 5 x 3 x 2 ft. above ground, chiseled B R - U S L M No 434 H E S, bears N. 84° 01' W., 24 lks. dist.

A + on a granite boulder 4 x 3 x 2-1/2 ft. above ground, chiseled B R - U S L M No 434 H E S, bears N. 17° 06' E., 56 lks. dist.

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Chains

Junction of Salt River and Medicine Wash bears S. 86° 40' W., approximately 3/4 mile dist.

Junction of Salt River and Canyon Creek, bears

N. 9° 30' E., approximately 1-1/2 miles dist.

Sombrero Butte bears N. 54° 17' W., approximately

10-1/2 miles dist.

Aztec Peak in Sierra Ancha Mountains bears N. 78°

10' W., approximately 17 miles dist.

East edge of butte situated between Canyon Creek

and Salt River NE. of their junction, bears

N. 0° 55' W., approximately 1 mile dist.

West end Medicine Springs Mountain bears N. 33°

05' W., approximately 8 miles dist.

Hay Stack Mountain bears S. 50° 36' E., approx-

imately 4 miles dist.

Junction of Ash Creek and Salt River bears N. 7°

50' E., approximately 2 miles dist.

Cor. No. 1, H. E. S. 434, hereinafter described,

bears N. 36° 13' W., 19.00 chs. dist.

BOUNDARIES OF CLAIM

Beginning at cor. No. 1,

Identical with cor. H-1 of the list survey, which is a granite stone 12 x 6 x 14 ins. above ground, marked and

witnessed as described by the Forest Service. I de-

stroy all trace of this list cor. Deposit a granite

stone 5 x 2 x 2 ins. marked with a +, 14 ins. in the

ground, over which set a granite stone 24 x 14 x 6 ins.,

chiseled + for the point and 1 - H E S 434 on NW. face;

and raise a mound of stone 3 ft. base, 2 ft. high NW. of

cor., whence:

A mesquit, 8 ins. dia., bears N. 25° 32' W., 86

blks. dist., scribed 1. H E S 434 + B T.

No other witnesses available. Pits impracticable.

Chains U. S. L. M. No. 434, H. E. S., heretofore de-
scribed, bears S. 36° 13' E., 19.00 chs.,
by direct measurement.
Latitude 33° 45' 10" N., Longitude 110° 40' W., from
special instructions from the Surveyor General.
Mag. Var. at 5:00 p.m. 13° 30' E. Mean mag. var. 13°
31' E.
Thence S. 77° 18' W. 10' of
Over open bench.
0.70 Edge bench. Descend 85 ft. to cor. in brush.
3.60 Foot of slope. Enter bottom.
4.61 Fence cor., fence bears NE. and along line.
6.83 Fence cor., fence bears SW. Leave fence.
8.90 Fence bears NW. and SE.
11.38 To cor. No. 2.
Identical with cor. H-4 of the list survey, which is
an embedded granite stone 40 x 24 x 10 ins. above ground
marked and witnessed as described by the Forest Service.
I destroy all trace of this list cor. and mark same
stone 2 - H E S 434 on the NE. face for cor. No. 2 of
this survey; and raise a mound of stone 3 ft. base, 2
ft. high NE. of cor., whence:
A mesquit, 6 ins. dia., bears N. 89° 05' W.,
70 lks. dist., scribed 2 H E S 434 + B.T.
A + on an embedded granite boulder 4 x 3 x 1-1/2
ft. above ground, chiseled B R - 2 H E S 434,
bears S. 2° 18' E., 50 lks. dist.
Thence N. 17° 42' E.
Over level brushy land.
3.00 East bank Salt River, 4 ft. high, bears SE. Ascend
rocky river bed 30 ft.
51.00 East bank Salt River, 4 ft. high, bears SSE. Ascend
15 ft. to cor. in brush.

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Chains
51.65
57.50
58.78

Irrigation ditch, course SSE.

Fence bears NW. and SE.

To cor. No. 3.

Identical with cor. H-3 of the list survey, which is a granite stone 20' x 16' x 10 ins. above ground, marked and witnessed as described by the Forest Service. I destroy all trace of this list cor. Deposit a sandstone 4 x 2 x 2 ins. marked with a +, 14 ins. in the ground, over which set a sandstone 24 x 12 x 8 ins., chiseled + for the point and 3 - H E S 434 on S. face; and raise a mound of stone 3 ft. base, 2 ft. high, S. of cor., whence:

A mesquit, 12 ins. dia., bears N. 84° 56' E., 133

lks. dist., scribed 3 H E S 434 + B T.

A mesquit, 8 ins. dia., bears N. 43° 32' E., 68

lks. dist., scribed 3 H E S 434 + BT.

April 4, 1916.

April 5, 1916.

At 7h. 40m. a.m., l.m.t., I set off 33° 45-1/2' on lat. arc, 6° 07' N. on decl. arc, and determine a meridian

with the solar at cor. No. 3.

Thence S. 19° 48' E.

Descend 15 ft. to bottom in brush.

1.44 Fence bears ESE. and NNW.

5.00 Foot descent. Ascend 25 ft. to cor.

20.08 Arroyo, 5 lks. wide, 1 ft. deep, course WNW.

27.45 Fence bears NNE. and SSW.

27.89 To cor. No. 4.

Identical with cor. H-2 of the list survey, which is a sandstone 12 x 10 x 10 ins. above ground, marked and witnessed as described by the Forest Service. I destroy all trace of this list cor. Deposit a granite stone 6 x 2 x 2 ins. marked with a +, 14 ins. in the

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Chains

ground, over which set a granite stone 24 x 14 x 8 ins., chiseled + for the point and 4 - H E S 434 on W. face; and raise a mound of stone 3 ft. base, 2 ft. high W. of cor., whence:

A palo verde, 6 ins. dia., bears N. 42° 18' E.,

56 lks. dist., scribed 4 H E S 434 + BT.

A mesquit, 4 ins. dia., bears S. 82° 12' E.,

57 lks. dist., scribed 4 H E S 434 + B T.

Thence S. 30° 46' W.

Descend 40 ft. in brush to flat.

1.58 Fence bears NNE. and SSW.

8.50 Fence bears NE. and SW.

15.00 Ascend 70 ft. to bench, along NW. slope.

24.50 Top of bench.

28.20 Edge bench. Descend 20 ft. to ravine.

29.20 Ravine, course WNW. Ascend 20 ft. to cor.

31.70 Cor. No. 1, the place of beginning.

AREA

Total Area - - - - - 63.00 acres

IMPROVEMENTS

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

Approximately 1-1/8 mile of wire fence.

Value ----- \$175.00

The applicant's house was washed away by flood in spring of 1916 and at time of survey he was living in tent on N. end of claim.

There is approximately 15 acres in cultivation.

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Chains

There is a gas engine and pump on river bed West of cor. No. 3, but well was washed out and engine out of repair as result of flood.

Value ----- \$350.00

DESCRIPTION

This claim consists of small flat on East side of Salt River, known locally as Gleason Flat, approximately 22 miles NE. of East end of Roosevelt Lake. The tract is largely bottom land extending to edge of low bench on East.

The soil in the bottom is a sandy loam, fertile and produces good crops when irrigated. At the time of survey about 1/2 of the claim was covered with from 2 to 6 ins. of sand, deposited by recent floods. The slopes to bench are rocky and non-tillable.

There is no merchantable timber on the tract. The cover consists of a heavy stand of mesquit along West boundary.

Water for irrigation and domestic use is obtained from Salt River, being pumped from a well in edge of River bed.

I saw no indications of mineral upon this claim.

CONFLICTS AND ADJOINING CLAIMS

There are no conflicting, adjoining or nearby claims. Globe, the nearest railroad point, post office and commercial center, is approximately 50 miles to South and is reached by 25 miles of poor trail, 10 miles of poor road and 15 miles of good road.

Chains

TRAVERSE

Cor.	Course	Dist.	N	S	E	W
1-2	S. 77° 18' W.	11.38		2.50		11.10
2-3	N. 17° 42' E.	58.78	56.00		17.87	
3-4	S. 19° 48' E.	27.89		26.24		9.45

4-1	S. 30° 46' W.	31.70		27.24		16.22
		129.75	56.00	55.98	27.32	27.32
Error in Lat. and Dep.			.02		.00	
Closing error, 1:6487.						

Survey completed April 5, 1916.

R. P. Johnson
Surveyor - Draftsman

There are no conflicting, adjoining or nearby claims.

The nearest railroad point, post office and commercial center, is approximately 30 miles to south and is reached by 25 miles of poor trail, 10 miles of poor road and 15 miles of good road.

Chains

Direct Solar, April 4, 1916.

Cor. No. 1, H. E. S. 434 of W. L. Nail.

Lat. 33° 45' 10" N. Long. 110° 40' W. Elev. 2500 ft.

Decl. 5° 52' N.

Telescope	Time	Horizontal Angle	Vertical Pos. Angle Sun
Direct	4h. 49m. 18s.	84° 28' 00"	18° 51' 30" +
Reversed	4h. 50m. 39s.	84° 07' 00"	19° 06' 00" +
Mean	4h. 49m. 58s.	84° 17' 30"	18° 58' 45" 02' 33" ✓ 18° 56' 12"

$$\text{Cos. } Q. = \frac{\sin. 5^\circ 52' N.}{\cos. 33^\circ 45' 10'' \times \cos. 18^\circ 56' 12''} \times \tan. 33^\circ 45' 10'' \times \tan. 18^\circ 56' 12''$$

log. sin. 5° 52' 00"	=	- 9.009510 ✓	
log. cos. 33° 45' 10"	=	+ 9.919832 ✓	
log. cos. 18° 56' 12"	=	+ 9.975835 ✓	
		<u>9.113843</u> ✓	log. .12997 ✓

log. tan. 33° 45' 10"	=	9.824939 ✓	
log. tan. 18° 56' 12"	=	<u>9.535410</u> ✓	log. .22927 ✓
		9.360349	

Cos. Q. = .09930

Q. = 84° 18' 04" ✓

Bearing of reference object, N. 0° 00' 34" 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. Surveyors are required to use the Standard Field Tables issued by the G. L. O.

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. 434, STATE OF ARIZONA.

CORNERS.	BEARING.	DISTANCE.	LATITUDES.		DEPARTURES.		DOUBLE M. D.		N. AREAS.	S. AREAS.
			North.	South.	East.	West.				
1-2	S. 77° 18' W.	11.58	38.99	2 50	17 87	11 10	11 10	1000 54	27 75	
2-3	N. 17° 42' E.	58.78	56.00		9 45		17 87			
3-4	S. 19° 48' E.	27.89	26.24	25	27 32	16 22	45 19		1185 79	
4-1	S. 30° 46' W.	31.70	27.24		27 32	27 32	38 42	1000 54	1046 95	
		129.75	56 00	55 98	27 32	27 32		1000 54	2260 49	
			55 99	55 99	27 32	27 32			1000 54	
									1259 95	
									62 998 Acres.	
	Closing error, 1:6487									

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EMH

APPROVAL

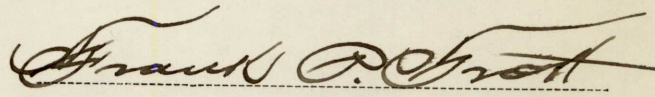
Office of the United States Surveyor General,

Phoenix, Arizona, August 3 , 1917

The foregoing field notes of Homestead Entry Survey No.

434

executed by R. P. A. Johnso, Surveyor-Draftsman, [Forest Service Title.]
under his special instructions, dated December 2 , 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.