

U. S. DEPARTMENT OF AGRICULTURE

FOREST SERVICE

MAY 7-1917

FIELD NOTES

JUN 25 1917

MAY 24 1918

OF

HOMESTEAD ENTRY SURVEY NO. 424

SITUATED IN THE TONTO NATIONAL FOREST

ADMINISTRATIVE DISTRICT NO. 3

In Section 19 , un surveyed, Township 11 N., Range 11-1/2 E.  
In Section 20 , un surveyed , Township 11 N., Range 11-1/2 E.

of the

Gila and Salt River Base and Meridian.

State of  
Arizona.

Applicants for listing A. W. Laney and Henry Haught

Residence Payson, Arizona

Application No. 23 ✓ , dated March 25 , 19 07 ✓

Application No. 359 , dated July 22 , 1911 ✓

List No. 666 ✓ , dated November 2 , 1907 ✓

Applicant for survey Henry Haught

Residence Payson, Arizona

H. E. No. 016631 ✓ , dated February 5 , 19 12 ✓

Office  
Land District Phoenix, Arizona

Survey executed by R. P. A. Johnson, Surveyor-Draftsman  
[Forest Service Title.]

Under special instructions dated September 23 , 19 15

Survey commenced May 2 , 19 16

Survey completed May 5 , 19 16

Under Acts of June 11, 1906 and March 4, 1915



OATH OF ASSISTANTS

We hereby certify that we assisted R.P.A. Johnson  
*Surveyor Craftsman* [Forest Service Title.] in surveying all those  
 parts or portions of Homestead Entry Survey No. 424, 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 Newman  
 Chainman  
Ferry D. Lewis  
 Chainman

Subscribed and sworn to before me this fifth day of  
May, 1916.

R.P.A. Johnson  
*Surveyor Craftsman*

OATH OF SURVEYOR

I, R.P.A. Johnson, *Surveyor Craftsman*  
 [Forest Service Title.]

do solemnly swear that, in strict conformity with the special instruc-  
 tions of the United States Surveyor General for Arizona, dated  
September 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. 666, dated November 2, 1907, for  
 patent, under the Act of June 11, 1906,  
 the same to be known as Homestead Entry Survey No. 424,  
 situated within the Tonto National Forest, in  
 un surveyed Section 19, Township 11 N., Range 11-1/2 E., and  
 un surveyed Section 20, Township 11 N., Range 11-1/2 E.,

of the Gila & 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.

R.P.A. Johnson  
*Surveyor Craftsman*  
 [Forest Service Title.]

Subscribed and sworn to before me this twelfth day of  
April, 1917.

Ethel M. Gutschall  
 Notary Public



My Commission expires Mar. 17 1921



## Chains

Applicants for listing, A. W. Lamey and Henry Haught;  
Application Nos. 23 and 359, dated March 25, 1907  
and July 22, 1911 respectively; List No. 666, dated  
November 2, 1907; H. E. 016631 made in the Phoenix  
Land Office on February 5, 1912 by Henry Haught.

Note : The original listing in this case was by legal  
subdivisions in T. 11 N., R. 11-1/2 E. which survey  
was subsequently rejected. As additional agricul-  
tural land was included in the survey, no attempt  
was made to follow the original list lines. This  
is, therefore, in the nature of a cooperative sur-  
vey and will be used as a basis for supplemental  
and amendatory listing and entry.

Surveyed under special instructions from the Surveyor  
General for Arizona, dated September 23, 1915 and  
designated as Homestead Entry Survey No. 424.

Situated in what will probably be, when surveyed,  
T. 11 N., R. 11-1/2 E. Sections 19 and 20 G. & S. R.  
B. & M., Tonto National Forest, Arizona.

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

Survey commenced May 2, 1916, and executed with a Buff  
and Buff transit, equipped with Smith solar attach-  
ment.

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.

May 2, 1916.

At 9h. 55m. a.m. l.m.t., I set off  $34^{\circ} 17'$  on lat. arc



Chains

15° 26' N. on decl. arc and determine a meridian with the solar at point for Cor. No. 1 hereinafter described.

I observe the altitude of the sun for azimuth at Cor. No. 1 of this survey. The reading on the meridian, determined with the solar attachment, is set at zero and sun was observed in the lower left and upper right quadrants of the field. My watch is set for local mean time.

Latitude 34° 17' N., Longitude 111° 08' 30" W. from special instructions from the Surveyor General.

Telescope	Time	Horizontal Angle	Vertical Angle
Direct	10h. 05m. 19s.	60° 21'	58° 25'
Reversed	10h. 06m. 38s.	60° 54'	58° 08'
Difference from solar attachment meridian 0° 01' 30"			

At 4h. 05m. p.m. l.m.t., I set off 34° 17' on lat. arc 15° 31' N. on decl. arc and determine a meridian with the solar at point for Cor. No. 1. The meridian thus obtained differs 0° 01' from meridian determined by direct solar.

I observe Polaris at Cor. No. 1. The reading on direct solar meridian is set at zero.

Telescope	Time	Horizontal Angle	Vertical Angle
Direct	6h. 16m. 30s.	1° 16'	to W.
Reversed	6h. 19m. 24s.	1° 15' 30"	to W.
Mean	6h. 17m. 57s.	1° 15' 45"	to W.

l.m.t. U.C. Polaris May 2, 1916 10h. 48.7m. a.m.

l.m.t. obsn. May 2, 1916 6h. 18.0m. p.m.

7h. 29.3m.

Long. correction 1.2m.

Hour angle Polaris at obsn. 7h. 30.5m.



Chains

Azimuth of Polaris	1° 16' 28" W.
Difference from direct solar	0° 00' 43" ✓

May 3, 1916.

I observe passage of right and left limbs of sun across the meridian at Cor. No. 1

Watch time passage right limb	11h. 54m. 49s.
Watch time passage left limb	11h. 57m. 01s.
Watch time apparent noon	11h. 55m. 55s.
Time correction	<u>03m. 11s.</u>
Watch noon	11h. 59m. 06s.
Noon	<u>12h. 00m. 00s.</u>
Watch slow	00h. 00m. 54s.

Polaris observation time was corrected accordingly.

At Cor. No. 1 set off 15° 45-1/2' N. on decl. arc, and at 11h. 56m. 49s. l.m.t., obs. the sun on the meridian. The resulting lat. is 34° 17'.

BOUNDARIES OF CLAIM.

May 2, 1916.

Beginning at point for Cor. No. 1.

Point for cor. falls in center of wash and cor. would not be permanent if set. I therefore mark the point by driving a charred stick 6 ins. under ground and set witness corners on claim lines South 2.03 chs. and West 1.00 ch. as hereinafter described.

Bdy. post No. 23 of the Black Mesa Forest Reserve, and Cor. to Ts. 10 and 11 N., Rs. 11 and 12 E. which is an iron post with brass cap marked and witnessed as described by the Surveyor General bears N. 47° 53' 32" E 49.47 chs. by traverse which appears at the end of these notes.

Lat. 34° 17' N., Long. 111° 08' 30" W. from special



Chains instructions from the Surveyor General, and verified by me.  
 Mag. Var. at 10 a.m. 14° 15' E.  
 Mean Mag. Var. 14° 14' E.  
 Thence South

1.90 Bank wash 2 ft. high, course WSW.

2.03 W. C. to Cor. No. 1.  
 Deposit broken glass 14 ins. in the ground, over which set a granite stone 24 x 12 x 8 ins. chiseled + for the point and W C 1-H E S 424 on W. face; raise a mound of stone 3 ft. base, 2 ft. high W. of cor., whence:  
 A wild cherry 10 ins. dia. bears N. 71° 45' W. 9 lks. dist., scribed W C 1 H E S 424 + B T.  
 A walnut 8 ins. dia. bears N. 37° 15' E. 35 lks. dist., scribed W C 1 H E S 424 + B T.

Ascend 130 ft. to top of ridge in brush and timber.

9.10 Top ridge bears E. and W. Descend 140 ft. to bottom.

17.00 Foot descent. Enter draw, course W., thence across open sand draw.

23.50 Leave draw. Ascend steep N. slope in timber 140 ft. to cor.

30.01 Cor. No. 2.  
 Deposit broken glass 20 ins. in the ground, over which set a granite stone 30 x 15 x 6 ins. chiseled + for the point and 2-H E S 424 on NW. face; raise a mound of stone 3 ft. base, 2 ft. high NW. of cor., whence:  
 A yellow pine 24 ins. dia. bears N. 43° 14' W. 57 lks. dist., scribed 2 H E S 424 + B T.  
 A yellow pine 10 ins. dia. bears S. 7° 50' E. 53 lks. dist., scribed 2 H E S 424 + B T.

May 2, 1916.



Chains

May 3, 1916.

Thence West

Ascend along North slope 30 ft. in timber.

3.20 Top ascent. Descend 180 ft. along N. slope in timber and brush to draw.

12.90 Foot descent. Enter draw, course N., thence across rocky brushy draw.

16.10 Leave draw. Ascend 95 ft. along N. slope in brush and timber

25.20 Top ascent. Descend 85 ft. along N. slope.

29.90 Cor. No. 3.

Deposit broken glass 14 ins. in the ground, over which set a granite stone 24 x 10 x 8 ins. chiseled + for the point and 3-H E S 424 on N. face; raise a mound of stone 3 ft. base, 2 ft. high N. of cor., whence:

A yellow pine 6 ins. dia. bears N. 79° 49' E. 12 lks. dist., scribed 3 H E S 424 + B T.

A yellow pine 8 ins. dia. bears S. 44° 22' W. 14 lks. dist., scribed 3 H E S 424 + B T.

Thence S. 45° 00' W.

Ascend 90 ft. along brush timbered NW. slope.

7.00 Top ascent. Descend 80 ft. along timbered brushy NW. slope to bottom.

12.40 Fence bears NE. and SW. Foot descent. Enter bottom.

14.14 Cor. to Secs. 19, 20, 29 and 30 rejected survey

T. 11 N., R. 11-1/2 E., In accordance with instructions from Surveyor General, I destroy all trace of this cor.

20.50 Fence bears NE. and SW.

24.14 Cor. No. 4.

Deposit a granite stone 8 x 6 x 6 ins. marked with a + 20 ins. in the ground, over which set a granite



## Chains

stone 30 x 16 x 10 ins. chiseled + for the point and  
4-H E S 424 on NE. face; raise a mound of stone 3  
ft. base, 2 ft. high NE. of cor., whence:

A willow 6 ins. dia. bears S. 88° 30' W.

12 lks. dist., scribed 4 H E S 424 + B T.

A willow 10 ins. dia. bears S. 33° 45' W.

35 lks. dist., scribed 4 H E S 424 + B T.

At 4h. 20m. p.m. l.m.t., I set off 34° 16-1/2' on lat.  
arc 15° 49' N. on decl. arc and determine a meridian  
with the solar.

May 3, 1916.

May 4, 1916.

Thence N. 4° 34' W.

2.50 Small creek 10 lks. wide, bank 3 ft. high, course SW.

Ascend 110 ft. to ridge in brush.

14.70 Top ridge bears E. and W. Descend 100 ft. to bottom  
in brush.

26.00 Foot descent. Enter open bottom.

29.50 Road bears E. and W.

30.00 Telephone line bears ENE. and SSW. Leave bottom.

Ascend 100 ft. to cor. in brush.

37.21 Cor. No. 5.

Deposit a granite stone 4 x 3 x 2 ins. marked with  
a + 14 ins. in the ground, over which set a granite  
stone 24 x 12 x 5 ins. chiseled + for the point and  
5-H E S 424 on SE. face; raise a mound of stone 3 ft.  
base, 2 ft. high SE. of cor., whence:

A yellow pine 10 ins. dia. bears N. 3° 09' E.

40 lks. dist., scribed 5 H E S 424 + B T.

An oak 5 ins. dia. bears N. 59° 50' E. 65 lks.

dist., scribed 5 H E S 424 + B T.

At 9h. 15m. a.m. l.m.t., I set off 34° 17' on lat. arc  
16° 01' N. on decl. arc and determine a meridian with  
the solar.



Chains	<p>Thence N. 89° 55' E.</p> <p>Descend 80 ft. in brush to arroyo.</p> <p>4.00 Arroyo 10 lks. wide, 1 ft. deep, course S. Ascend 120 ft. in brush to ridge.</p> <p>8.30 Top ascent. Descend 110 ft. in brush to cor., along SE. slope.</p> <p>19.50 Telephone line bears NE. and SW.</p> <p>19.90 Cor. No. 6.</p> <p>Deposit broken glass 16 ins. in the ground, over which set a granite stone 26 x 8 x 6 ins. chiseled + for the point and 6-H E S 424 on SE. face; raise a mound of stone 3 ft. base, 2 ft. high SE. of cor., whence:</p> <p>An oak 6 ins. dia. bears S. 48° 27' E. 17 lks. dist., scribed 6 H E S 424 + B T.</p> <p>An oak 6 ins. dia. bears N. 54° 05' E. 42 lks. dist., scribed 6 H E S 424 + B T.</p> <p style="text-align: right;">May 4, 1916.</p>
	<p>May 5, 1916.</p> <p>Thence N. 0° 13' W.</p> <p>Ascend 25 ft. in brush to ridge.</p> <p>.40 Telephone line bears SW. and ENE.</p> <p>4.80 Top ridge bears NW. and SE. Descend 25 ft. to wash.</p> <p>8.10 Wash, 100 lks. wide, banks 1 ft. high, course SE.</p> <p>Ascend 15 ft. to cor.</p> <p>9.99 Cor. No. 7.</p> <p>Deposit broken glass 16 ins. in the ground, over which set a granite stone 26 x 8 x 6 ins. chiseled + for the point and 7-H E S 424 on SE. face; raise a mound of stone 3 ft. base, 2 ft. high SE. of cor., whence:</p> <p>An oak 10 ins. dia. bears S. 23° W. 10 lks. dist., scribed 7 H E S 424 + B T.</p>



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HOMESTEAD ENTRY SURVEY NO. 424

TONTO NATIONAL FOREST

STATE OF ARIZONA

Chains

An oak 6 ins. dia. bears S. 29° 30' W. 16 lks. dist., scribed 7 H E S 424 + B T.

At 8h. 40m. a.m. l.m.t., I set off 34° 17' on lat. arc 16° 18' N. on decl. arc and determine a meridian with the solar.

Thence East

- 4.80 Ascend 95 ft. in brush to ridge.
- Top ridge bears NNW. and SSE. Descend 105 ft. in brush to wash.
- 12.85 Wash 20 lks. wide, bank 1 ft. high, course South. Ascend 70 ft. in brush to ridge.
- 19.82 Top ridge bears NE. and SW. Descend 65 ft. in brush to bottom.
- 23.96 Telephone line bears NE. and SW. Enter bottom.
- 24.20 Road bears NE. and SW.
- 24.35 Fence bears NE. and SW.
- 29.05 Deposit broken glass 14 ins. in the ground, over which set a granite stone 24 x 11 x 10 ins. chiseled + for the point and W C 1-H E S 424 on South face; raise a mound of stone 3 ft. base, 2 ft. high S. of cor., whence:
  - A walnut 20 ins. dia. bears S. 11° 15' E. 8 lks. dist., scribed W C 1 H E S 424 + B T.
  - A walnut 8 ins. dia. bears N. 37° 15' E. 35 lks. dist., scribed W C 1 H E S 424 + B T.
- 30.05 Point for Cor. No. 1, the place of beginning.

AREA

Total Area - - - - - 144.14 acres



TERRITORY OF ARIZONA NATIONAL FOREST

STATE OF ARIZONA

Chains

IMPROVEMENTS

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

A two-story frame and log dwelling 60 x 18 ft. with 22 x 16 ft. ell, the long side of which bears N. and S. and SE. cor. of which bears S. 37° W. 7.45 chs. dist. from Cor. No. 6.

Value - - - - - \$500.00

A log barn 100 x 40 ft., the long side of which bears E. and W. and SE. cor. of which bears S. 42° 45' W. 9.65 chs. dist. from Cor. No. 6.

Value - - - - - \$300.00

A log smoke house 16 x 12 ft., the long side of which bears E. and W. and SE. cor. of which bears S. 32° 30' W. 6.80 chs. dist. from Cor. No. 6.

Value - - - - - \$ 50.00

A well 12 ft. deep with pump bears S. 37° 10' W. 6.90 chs. dist. from Cor. No. 6.

Value - - - - - \$ 50.00

A well 7 ft. deep bears S. 34° 40' W. 9.00 chs. dist. from Cor. No. 6.

Value - - - - - \$ 30.00

There are approximately 2 miles of wire, picket and rail fence.

Value - - - - - \$250.00

There are approximately 20 acres in cultivation and 20 acres in meadow, on a portion of which hay is cut.

DESCRIPTION

This claim is situated in a basin surrounded on all sides by steep brushy, rocky hills. It comprises almost all of what is known as Green Valley and is at head water of Green Valley Creek, a tributary



Chains

to the Tonto River. The elevation is approximately 5500 ft. The general slope is to the West. The bottom land consists of a natural meadow or cienega in Western and Southern portions with a rich black loam. The Eastern portion of bottom land has sandy loam with clay base and is weathering product of granite. The bottom land has no cover except a few willows, walnut and oak. They are of no commercial value except as fire wood and posts. The hillsides are steep, rocky and non-tillable and are covered with brush, black and white oak with a few scattered yellow pine. Water for irrigation is not necessary as the greater portion of the tract is heavily sub-irrigated by springs. Water for stock and domestic use is obtained from two shallow wells. I saw no indication of mineral upon this claim.

CONFLICTS AND ADJOINING CLAIMS

There are no conflicting, adjoining or nearby claims. Payson, the nearest postoffice and commercial center is 18 miles distant by fair wagon road. Globe, 120 miles distant and Flagstaff, 90 miles distant, are two railroad points. The wagon road to Flagstaff is fair and to Globe is good.

TRAVERSE

Cor.	Course	Dist.	N.	S.	E.	W.
1-2	South	30.01		30.01		
2-3	West	29.90				29.90
3-4	S. 45° 00' W.	24.14		17.07		17.07
4-5	N. 4° 34' W.	37.21	37.09			2.96
5-6	N. 89° 55' E.	19.90	.03		19.90	
6-7	N. 0° 13' W.	9.99	9.99			.04
7-1	East	30.05			30.05	
		181.20	47.11	47.08	49.95	49.97
			47.08			49.95
Error in Lat. and Dep.			.03			.02
Closing Error 1:5026.						

Survey completed May 5, 1916.

*R. P. A. Johnson*  
Surveyor - Draftsman.



PERROW JANTONTO NATIONAL FOREST

STATE OF ARIZONA.

Chains

Direct solar, May 2, 1916. at Cor. No. 1, H E S 424

Lat.  $34^{\circ} 17' N.$ , Long.  $111^{\circ} 08' 30'' W.$

Decl.  $15^{\circ} 25' 50''$

Telescope	Time	Horizontal Angle	Vertical Angle	Pos. Sun
Direct	10h. 05m. 19s.	$60^{\circ} 21'$	$58^{\circ} 25'$	$0^{\circ} +$
Reversed	10h. 06m. 38s.	$60^{\circ} 54'$	$58^{\circ} 08'$	$0^{\circ} +$
	2/20h. 11m. 57s.	$121^{\circ} 15'$	$116^{\circ} 33'$	
	10h. 05m. 58s.	$60^{\circ} 37' 30''$	$58^{\circ} 16' 30''$	$30''$
			$58^{\circ} 16' 30''$	$30''$
			$58^{\circ} 16'$	

$$\text{Cos. Q.} = \frac{\sin. 15^{\circ} 25' 50''}{\cos. 34^{\circ} 17' \times \cos. 58^{\circ} 16'}$$

$$\tan. 34^{\circ} 17' \times \tan 58^{\circ} 16'$$

$$\begin{aligned} \log. \sin. 15^{\circ} 25' 50'' &= 9.424996 \\ \log. \cos. 34^{\circ} 17' &= 9.917118 \\ \log. \cos. 58^{\circ} 16' &= 9.720958 \\ &= 9.786920 = \log. .61224 \\ \log. \tan. 34^{\circ} 17' &= 9.833611 \\ \log. \tan. 58^{\circ} 16' &= 10.208719 \\ &= 10.042330 = \log. 1.10238 \end{aligned}$$

$$\text{Cos. Q.} = .49014$$

$$Q. = 60^{\circ} 39'$$

Bearing of reference object, N.  $0^{\circ} 1' 30'' W.$



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HOMESTEAD ENTRY SURVEY NO.

NATIONAL FOREST

STATE OF

Chains

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DIRECTIONS.—1. Carry out calculation to two decimals only.  
 2. In balancing Latitudes and Departures do not obliterate or change the original figures, but put below them the corrected footing in red ink.  
 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. 42, STATE OF ARIZONA

CORNERS.	BEARING.	DISTANCE.	LATITUDES.		DEPARTURES.		DOUBLE M. D.	N. AREAS.	S. AREAS.
			NORTH.	SOUTH.	EAST.	WEST.			
1-2	South	30.01		30 01			99 84		2997 20
2-3	West	29.90			29 90		69 94		
3-4	S. 45° 00' W.	24.14		17 07	17 07		22 97		392 10
4-5	N. 4° 34' W.	37.21	08 09		2 96		2 95	109 39	
5-6	N. 89° 55' E.	19.90	03			19 90	19 90	60	
6-7	N. 0° 13' W.	9.99	9 99			39 76	39 76	20	
7-1	East	30.05		00 05	04		69 78	70	
		181.20	47 11	47 08	49 95	49 97		507 19	3390 00
			47 10	47 10	49 96	49 96		507 19	
			Traverse for tie.						2 ) 2882 81
	N. 41° 34' E.	5.77	4 32		3 83			144 14	Acres
	N. 47° 48' E.	50.16	33 69		37 16				
	S. 41° 32' W.	6.47		4 84		4 29			
			38 01	4 84	40 99	4 29			
			4 84		4 29				
			33 17		36 70				
	Resultant course and distance		N. 47° 53' 32" E.		49.47				

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END



APPROVAL

Office of the United States Surveyor General,

Phoenix, Arizona JUL 19 1917 , 191

The foregoing field notes of Homestead Entry Survey No.

424

executed by *R. P. A. Johnson, Surveyor-Draftsman* [Forest Service Title.]  
under his special instructions, dated *September 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.