

U. S. DEPARTMENT OF AGRICULTURE
FOREST SERVICE

FIELD NOTES

OF

HOMESTEAD ENTRY SURVEY NO. 415

SITUATED IN THE **PRESCOTT** NATIONAL FOREST

ADMINISTRATIVE DISTRICT NO. 3

In Section 27, **unsurveyed**, Township 9 N., Range 5 E.

~~In Section 27, **unsurveyed**, Township 9 N., Range 5 E.~~
and

Field notes of U. S. L. M. No. 415 H. E. S.

of the

Gila and Salt River Base and Meridian.

State of

ARIZONA

Applicant for listing **T. J. Cavness,**
Residence **Phoenix, Arizona**
Application No. **262**, dated **March 17**, 1915 ✓
List No. **3-3619**, dated **July 1**, 1915

Applicant for survey **Thos. J. Cavness,**
Residence **Phoenix, Arizona**
H. E. No. **028326**, dated **October 30**, 1915 ✓
Office
Land ~~District~~ **Phoenix, Arizoxa.**

Survey executed by **Walter G. Turley, Surveyor - Forest Service**
(Forest Service Title.)
Under special instructions dated **September 23**, 1915 ✓
Survey commenced **December 7**, 1915
Survey completed **December 8**, 1915
Under Acts of **June 11, 1906 and March 4, 1915**

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OATH OF ASSISTANTS

We hereby certify that we assisted **Walter G. Turley,**
Surveyor - Forest Service in surveying all those
[Forest Service Title.]
parts or portions of Homestead Entry Survey No. **415**, 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.

Walter G. Turley, Chairman
Dean S. Curry, Chairman

Subscribed and sworn to before me this **11th** day of
December, 19**15**.

Walter G. Turley
Surveyor Forest Service

OATH OF SURVEYOR

I, **Walter G. Turley,** **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
September 23, 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. **3-3619**, dated **July 1**, 19**15**, for
Patent, under the Act of **June 11**, 19**06**,
the same to be known as Homestead Entry Survey No. **415**,
situated within the **PRESCOTT** National Forest, in
~~un~~surveyed Section **27**, Township **9 N.**, Range **5 E.**, and
~~un~~surveyed Section **27**, Township ~~**9 N.**~~, Range ~~**5 E.**~~,

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.

Walter G. Turley
Surveyor Forest Service
[Forest Service Title.]

Subscribed and sworn to before me this **21st** day of
February, 19**17**.

Elmer C. Meyer
Notary Public



8-2349

My Commission expires April 20, 1918.

PRESCOTT NATIONAL FOREST

STATE OF ARIZONA

Chains

Applicant for listing, T. J. Cavness; Application No. 262, dated March 17, 1915; List No. 3-3619, dated July 1, 1915; H. E. No. 028326, made in the Phoenix Land Office on October 30, 1915 by Thos. J. Cavness, whose address is Phoenix, Arizona.

Surveyed under Acts of June 11, 1906 and March 4, 1915 and special instructions from the Surveyor General for Arizona, dated September 23, 1915, and designated as Homestead Entry Survey No. 415.

Situated in what will probably be when surveyed section 27, T. 9 N., R. 5 E., G. and S. R. B. and M. within the Prescott National Forest, Arizona.

Survey commenced December 7, 1915 and executed with a W. and L. E. Gurley light mountain transit No. 12953 provided with prism eye piece, stadia wires, vertical circle, and Burt solar attachment. The horizontal limb of the transit has two double verniers placed opposite to each other and graduated to single minutes of arc, which is also the graduation upon the verniers of the latitude and declination arcs.

I test the adjustments of the transit and solar attachment 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, the vernier of which reads to degrees.

PRESCOTT NATIONAL FOREST

STATE OF ARIZONA

Chains

December 7, 1915.

I set up my transit over cor. H-1 of List 3-3619 which is an imbedded basalt stone 15 x 6 x 4 ins. above ground marked and witnessed as described by the Forest Service; and with telescope direct I observe Polaris in accordance with instructions at 5h. 30m. p.m. l.m.t., and mark the direction thus determined with a tack in a stake set firmly in the ground 5.00 chs. N. of my station in lat. $34^{\circ} 05' 32''$ N. from obsn. hereinafter described, and long. $111^{\circ} 50' 14''$ W. from special instructions from the Surveyor General.

Astron. l.m.t. obsn.	Dec. 6, 1915,	29h. 30.0m.
Astron. l.m.t. U.C.Pol.	Dec. 6, 1915,	<u>8h. 30.9m.</u>
Hour angle Pol. at obsn.		20h. 59.1m. <u>23h. 56.1m.</u>
Time argument		2h. 57.0m.
Azimuth of Pol. at obsn.		$0^{\circ} 58' 06''$ E.

With my transit set up over cor. H-1 of List No. 3-3619 heretofore described and the telescope reversed in altitude and azimuth at 5h. 45m. p.m. l.m.t. on the same date, I again observe Polaris in accordance with instructions, and mark the direction thus determined with a tack in a stake set firmly in the ground 5.00 chs. N. of my station.

Astron. l.m.t. obsn.	Dec. 6, 1915,	29h. 45.0m.
Astron. l.m.t. U.C.Pol.	Dec. 6, 1915,	<u>8h. 30.9m.</u>
Hour angle Pol. at obsn.		21h. 14.1m. <u>23h. 56.1m.</u>
Time argument		2h. 42.0m.
Azimuth of Pol. at obsn.		$0^{\circ} 54' 06''$ E.

December 7, 1915.

PRESCOTT NATIONAL FOREST

STATE OF ARIZONA

Chains

December 8, 1915

I turn off $0^{\circ} 58'$ the azimuth of Polaris to W. from its direction at 5h. 30m. p.m. l.m.t. December 7 1915 and mark the line thus determined with a tack in a stake set firmly in the ground 5.00 chs. N. of my station.

I also turn off $0^{\circ} 54'$ the azimuth of Polaris to W. from its direction at 5h. 45m. p.m. l.m.t. and mark the line thus determined with a tack in a stake set firmly in the ground 5.00 chs. N. of my station.

This line falls $0^{\circ} 00' 30''$ of measured arc to the W. of the line previously established.

I mark the mean of these two lines with a tack in a stake set firmly in the ground 5.00 chs. N. of my station, and from the corresponding meridian all the courses stated in these field notes were deflected and referred by continuous sustained angulation.

December 8, 1915.

At 12h. 08m. p.m. l.m.t. I observe the sun on the meridian with the transit telescope for latitude at cor. No. 2 of this survey, hereafter described.

Telescope direct, observed alt.	$33^{\circ} 31' 15''$
Telescope reversed, observed alt.	$32^{\circ} 58' 45''$
Observed alt. sun's center	$33^{\circ} 15' 00''$
Refraction	$0^{\circ} 01' 17''$
	$33^{\circ} 13' 43''$
Parallax	$0^{\circ} 00' 08''$
	$33^{\circ} 13' 51''$
Declination of sun.	$22^{\circ} 40' 37''$ ✓
	$55^{\circ} 54' 28''$
	$90^{\circ} 00' 00''$
Resultant latitude	$34^{\circ} 05' 32''$

Latitude $34^{\circ} 05' 32''$ N., observed at cor. No. 2. Longitude $111^{\circ} 50' 14''$ W. at cor. No. 2 H. E. S. 415 obtained by account from the special instructions of the Surveyor General.

Chains

My watch is set for standard 105th meridian time from
which I subtract 18m. 57s. for l.m.t.

Observed magnetic declination Cor. No. 2 December 8,
1915 at 2h. 30m. p.m. l.m.t. $14^{\circ} 04'$ E. which reduced
gives a mean magnetic declination of $14^{\circ} 06'$ E.

There is no corner of the public land survey or
U. S. L. M. within two miles of this claim; there-
fore I establish U. S. L. M. No. 415 H. E. S. in ac-
cordance with instructions and tie this survey there-
to. Upon the NE. edge of Lockwood Mesa which is the
most prominent point within the statutory limit I
chisel cross at the point and U S L M No 415 H E S
upon the NE. face of an imbedded basalt stone
30 x 20 x 15 ins. above ground and raise a mound
of stone 6 ft. base, $4\frac{1}{2}$ ft. high, W. of point for
U. S. L. M. from which

A 20 in. cedar bears N. $12^{\circ} 10'$ W. 81 lks.

blazed and scribed U S L M No 415 H E S + B T
+ U S L M No 415 H E S B'R chiseled on an imbedded
basalt stone 22' x 20 x 7 ins. above ground bears
S. $85^{\circ} 22'$ W., 21 lks.

Rover Peak bears S. $13^{\circ} 24'$ E. approximately
5 miles.

Granite Mountain bears S. $39^{\circ} 53'$ E. approximately
25 miles.

Saddle Mountain bears S. $65^{\circ} 47'$ E. approximately
21 miles.

West Cedar Mountain bears N. $42^{\circ} 04'$ E. approxi-
mately $2\frac{1}{2}$ miles.

Turret Peak bears N. $3^{\circ} 35'$ W. approximately
11 miles.

SW. cor. T. J. Cavness' dwelling bears N. $13^{\circ} 15'$ E.
Cor. No. 1 H. E. S. 415 hereinafter described

PRESCOTT NATIONAL FOREST

STATE OF ARIZONA

Chains

bears N. 63° 57' E., 25.68 chs.

Thence N. 63° 57' E.

On a true line by direct measurement:

25.68

To cor. No. 1.

Identical with cor. H-4 of List 3-3619 which is a 24 in. cedar marked and witnessed as described by the Forest Service. I destroy cor. H-4 and its witnesses and for cor. No. 1 of this survey I scribe cross at the point, and 1 - HES 415 in a blaze on the N. side of the same tree and raise a mound of stone 2 ft. base, 1½ ft. high S. of cor. from which

A 14 in. hackberry bears N. 34° 56' E., 275 lks:

blazed and scribed 1 H E S 415 + B T

A 10 in. cedar bears N. 54° 30' W., 237 lks.

blazed and scribed 1 H E S 415 + B T

Thence N. 28° 09' W.

Over bottom in undergrowth.

0.22

Right bank Lime Creek 5 ft. high, course SE. 60 lks. wide.

1.16

Left bank Lime Creek 5 ft. high, course SE. Ascend gentle S. slope in undergrowth 25 ft.

30.88

Wire fence bears NE: and SW.

38.08

To cor. No. 2.

Identical with cor. H-1 and the Forest Service Monument of List 3-3619 which is a basalt stone 15 x 6 x 4 ins. above ground marked and witnessed as described by the Forest Service. I destroy cor. H-1 and F. S. M. and their witnesses and for cor. No. 2 of this survey I chisel cross at the point and 2 - H E S 415 on the ESE. face of the same stone and raise a mound of stone 2 ft. base, 1½ ft. high, ESE. of cor. from which

A 5 in. cedar bears N. 41° 45' E.; 136 lks.

PRESCOTT NATIONAL FOREST

STATE OF ARIZONA.

Chains	<p>blazed and scribed 2 H E S 415 + B T + on an imbedded basalt stone 12 x 10 x 5 ins. above ground chiseled 2 H E S 415 + B R bears S. 69° 00' E., 38 lks.</p>
	<p>Thence N. 75° 27' E. Desc. E. slope in undergrowth 15 ft.</p>
8.85	Wire fence bears NE. and SW.
10.15	<p>Wire fence bears NW. and SE. Foot of descent bears N. and S. Continue over bottom in undergrowth.</p>
28.00	Pack trail bears N. and S.
29.30	Arroyo 30 lks. wide banks 2 ft. high, course SSE.
31.48	<p>To cor. No. 3. Identical with cor. H-2 of List 3-3619 which is a 24 in. cedar marked and witnessed as described by the Forest Service. I destroy cor. H-2 and its witnesses and for cor. No. 3 of this survey I scribe cross at the point and 3 H E S 415 on the SW. face of the same tree and raise a mound of stone 2 ft. base, 1½ ft. high, SW. of cor. from which</p>
	<p>A 22 in. cedar bears N. 27° 10' E. 55 lks.</p>
	<p>blazed and scribed 3 H E S 415 + B T.</p>
	<p>A 24 in. cedar bears S. 31° 40' W., 92 lks.</p>
	<p>blazed and scribed 3 H E S 415 + B T</p>
	<p>Thence S. 5° 56' W. Over bottom in undergrowth.</p>
26.08	<p>To cor. No. 4. Identical with cor. H-3 of List 3-3619 which is a 24 in. cedar marked and witnessed as described by the Forest Service. I destroy cor. H-3 and its wit- nesses and for cor. No. 4 of this survey I scribe cross at the point and 4 - H E S 415 in a blaze on the NW. side of the same tree and raise a mound of stone 2 ft. base, 1½ ft. high, NW. of cor. from which</p>

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Chains

A 6 in. cedar bears N. 50° 45' E., 258 lks.

blazed and scribed 4 H E S 415 + B T

A 4 in. cedar bears N. 17° 20' E., 227 lks.

blazed and scribed 4 H E S 415 + B T

Thence S. 32° 24' W.

Desc. W. slope 10 ft. in undergrowth.

- 1.40 Wire fence bears E. and W.
- 6.90 Left bank arroyo 2 ft. high, course S., 30 lks. wide.
- 7.30 Right bank arroyo 2 ft. high, course S. Continue over bottom.
- 8.90 Wire fence bears NW. and SE.
- 15.80 Pack trail to Phoenix bears N. and S.
- 17.38 Left bank Lime Creek 5 ft. high, course SE., 60 lks. wide.
- 18.20 Right bank Lime Creek 5 ft. high, course SE.
- 18.40 To cor. No. 1 the place of beginning.

Area.

Total Area..... 68.96 acres

Improvements.

A stone store house 16 x 12 ft. the long side extending N. and S. and the SW. cor. of which bears N. 87° 40' E., 4.75 chs. from cor. No. 2 of this survey.

Estimated value..... \$100.00

A spring house 8 x 6 ft. over spring the long side extending N. and S. and the SW. cor. of which bears N. 80° 00' E., 4.40 chs. from cor. No. 2 of this survey.

Estimated value..... \$ 25.00

A frame dwelling 28 x 16 ft., the long side extending NE. and SW. and the W. cor. of which bears East., 5.10 chs. from cor. No. 2 of this survey.

Estimated value..... \$400.00

A stone stable 28 x 16 ft. the long side extending N. and S. and the NW. cor. of which bears S. 51° 30' E.

17.71
07.3
38.0
33.06
74.04
30.

Chains 2.38 chs. from cor. No. 2 of this survey.
Estimated value..... \$200.00
Approximately 1½ miles of wire fencing.
Estimated value..... \$200.00
Approximately 7½ acres of cultivated land.

Description.

This claim is situated on Lime Creek which flows southeasterly into the Verde River, and is valuable for stock raising.

There is no timber on this section. A few large junipers and catsclaw grow upon this claim.

Water for domestic purposes and for stock is obtained from a spring near the dwelling. No water is available for irrigation.

The soil is a deep sandy loam and good crops of barley and the sorghums have been produced.

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

Phoenix postoffice and railway station is 52 miles by trail and wagon road in a southerly direction.

There are no conflicts or adjoining claims.

Traverse.

Cor.	Course	Dist.	N.	S.	E.	W.
1-2	N. 28° 09' W.	38.08	33.58			17.97
2-3	N. 75° 27' E.	31.48	7.91		30.47	
3-4	S. 5° 56' W.	26.08		25.94		2.70
4-1	S. 32° 24' W.	18.40		15.54		9.86
		114.04	41.49	41.48	30.47	30.53
			41.48			30.47

Error in lat. and dep. .01 .06

Closing error 1:1875

Survey completed December 8, 1915.

Walter P. Turley
Surveyor-Forest Service.

PRESCOTT NATIONAL FOREST

STATE OF ARIZONA

Chains

Note:

The listing survey reports this claim in approximately Secs. 27 and 34, T. 9 N. R. 5 E. According to the bearings recorded in the notes of the establishment of U. S. L. M. No. 415 H E S said monument is situated in the SW./4 of Sec. 27, said T. and R. and this claim, consequently in Sec. 27 thereof.

Walter G. Proby
Surveyor - Forest Service

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HOMESTEAD ENTRY SURVEY NO.

NATIONAL FOREST

STATE OF

Chains

The following is a list of chains in the survey. The chains are listed in the order in which they were measured. The bearings and distances are given in feet and inches. The bearings are given in degrees, minutes and seconds. The distances are given in feet and inches.

1. Chain 1. Bearing S 89° 15' E. Distance 100.00 feet.

2. Chain 2. Bearing S 89° 15' E. Distance 100.00 feet.

3. Chain 3. Bearing S 89° 15' E. Distance 100.00 feet.

4. Chain 4. Bearing S 89° 15' E. Distance 100.00 feet.

5. Chain 5. Bearing S 89° 15' E. Distance 100.00 feet.

6. Chain 6. Bearing S 89° 15' E. Distance 100.00 feet.

7. Chain 7. Bearing S 89° 15' E. Distance 100.00 feet.

8. Chain 8. Bearing S 89° 15' E. Distance 100.00 feet.

9. Chain 9. Bearing S 89° 15' E. Distance 100.00 feet.

10. Chain 10. Bearing S 89° 15' E. Distance 100.00 feet.

Surveyed by

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.

TABLE AND CALCULATIONS OF HOMESTEAD ENTRY SURVEY NO. 415, STATE OF ARIZONA.

CORNERS.	BEARING.	DISTANCE.	LATITUDES.		DEPARTURES.		DOUBLE M. D.		N. AREAS.	S. AREAS.
			NORTH.	SOUTH.	EAST.	WEST.				
1-2	N. 28° 09' W.	38.08	53.58		17.97	17.97	17 95	602 58		
2-3	N. 75° 27' E.	31.48	7.91		30.47	30.47	30 49	241 18		
3-4	S. 5° 56' W.	26.08		25.94	2.70	2.70	58 29		1512 04	
4-1	S. 52° 24' W.	18.40		15.54	9.86	9.86	45 75		710 96	
		114.04	41.49	41.48	30.47	30.53		843 76	2223 00	
			41.48	41.48	30.49	30.49			843 76	
									1379 24	
									68 96	Acres.
Closing error, 1:1875										

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EMH

APPROVAL

Office of the United States Surveyor General,

Phoenix, Arizona, August 14, 1917

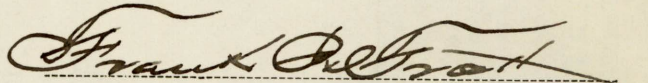
The foregoing field notes of Homestead Entry Survey No.

415

executed by **Walter G. Turley, Surveyor**

[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.



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.