

ORIGINAL

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U. S. DEPARTMENT OF AGRICULTURE
FOREST SERVICE

JUN 2 1916
JUN 20 1917
NOV 23 1918

FIELD NOTES

OF

HOMESTEAD ENTRY SURVEY NO. 317 ✓

SITUATED IN THE

PRESCOTT NATIONAL FOREST

ADMINISTRATIVE DISTRICT NO. 3

in

Section 21, unsurveyed, Township 7 N., Range 4 E.

of the

Gila and Salt River Base and Meridian.

ARIZONA

and U. S. L. M. No. 317 H. E. S. (Page 3)

Survey executed by Walter G. Turley, Surveyor - Forest Service

Under special instructions dated January 23, 1915 ✓

Survey commenced February 5, 1915

Survey completed February 6, 1915

Under Acts of June 11, 1906 and June 30, 1914 ✓

Applicant for listing John W. Lewis, ✓

Residence Cave Creek, Arizona.

Application No. 183 ✓, dated July 5, 1913 ✓

List No. 3-3125 ✓, dated March 30, 1914 ✓

Applicant for survey John W. Lewis, ✓

Residence Cave Creek, Arizona.

H. E. No. 025596 ✓, dated August 15, 1914 ✓

Land district Office Phoenix, Arizona ✓

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OATH OF ASSISTANTS

We hereby certify that we assisted Walter G. Turley,
Surveyor - Forest Service in surveying all those
parts or portions of Homestead Entry Survey No. 317, in
unsurveyed Section 21, Township 7 N., Range 4 E.,
surveyed Section ---, Township ---, Range ---,

of the G. & S.R.B. & meridian, State of Arizona, which
are represented in the following field notes as having been
surveyed by him and under his direction; and that said sur-
vey 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 fur-
nished 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.

A. M. Stratton, Chairman
Francisco Lopez, Chairman

Subscribed and sworn to before me this 10th day of
February, 1915.

Walter G. Turley,
Surveyor - Forest Service

OATH OF SURVEYOR

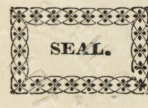
I, Walter G. Turley, Surveyor - Forest Service, do solemnly swear
that, in strict conformity with the special instructions of
the United States Surveyor General for Arizona, dated
January 23, 1915, and the laws of the United States, I have
well, faithfully, and truly, in my own proper person, sur-
veyed a tract of land ~~upon the application of~~ embraced in
List, No. 3-3125, dated March 30, 1914, for
Patent, under the Act of June 11, 1906,
the same to be known as Homestead Entry Survey No. 317,
situated within the PRESCOTT National Forest, in
unsurveyed Section 21, Township 7 N., Range 4 E., and
surveyed Section ---, Township ---, Range ---,

of the G. & S.R.B. & 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 perpet-
uated in strict accordance with the stated special instruc-
tions, 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

Subscribed and sworn to before me this 23^d day of
February, 1915.

Essie C. Myers
Notary Public



PRESCOTT NATIONAL FOREST

STATE OF ARIZONA

Chains Applicant for listing John W. Lewis; Application No. 183, dated July 5, 1913; List No. 3-3125, dated March 30, 1914; Homestead Entry No. 025596, made in the Phoenix Land Office on August 15, 1914 by John W. Lewis, whose post office address is Cave Creek, Arizona.

Surveyed under the Acts of June 11, 1906 and June 30, 1914, and special instructions from the Surveyor General for Arizona, dated January 23, 1915, and designated as Homestead Entry Survey No. 317.

Situated in what will probably be, when surveyed, sec. 21, T. 7 N., R. 4 E., Gila and Salt River Base and Meridian, within the Prescott National Forest, Arizona.

Survey commenced February 5, 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. The stadia wire interval is adjusted to read 1:132.

All distances are horizontal, and were reduced from measurements made directly on the slope, with a standard 500 link steel tape graduated to links and tenths; and the slope angles determined with a clinometer, the vernier of which reads to degrees; and a Philadelphia stadia rod, graduated to feet and hundredths, provided with two targets, the verniers of which read to thousandths of a foot.

Chains

February 5, 1915.

I set up my transit over cor. H-5 of List 3-3125, which is a basalt stone 6 x 5 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 7h. 42m. 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. $33^{\circ}56'51''$ N., Long. $111^{\circ}57'12''$ W.

Astron. l.m.t. obsn., February 5, 1915, 7h. 42.0m.

Astron. l.m.t. U.C. Pol., Feb. 5, 1915, 4h. 28.5m.

Hour angle Pol. at obsn., 3h. 13.5m.

Azimuth Pol. at obsn., $1^{\circ}02'24''$ W.

With my transit set up over cor. H-5 of List 3-3125

heretofore described, and the telescope reversed in altitude and azimuth, at 7h. 56m. 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., February 5, 1915, 7h. 56.0m.

Astron. l.m.t., U.C. Pol., Feb. 5, 1915, 4h. 28.5m.

Hour angle Pol. at obsn., 3h. 27.5m.

Azimuth of Pol. at obsn., $1^{\circ}05'36''$ W.

February 5, 1915.

February 6, 1915.

I turn off $1^{\circ}02'-1/2'$, the azimuth of Polaris, to the E. from its direction at 7h. 42m. p.m., l.m.t., February 5, 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.

PRESCOTT NATIONAL FOREST

STATE OF ARIZONA

Chains I also turn off $1^{\circ} 05-1/2'$, the azimuth of Polaris, to the E. from its direction at 7h. 56m. 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 $0^{\circ} 00' 34''$ 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.

February 6, 1915, I observe the sun upon the meridian for latitude at cor. No. 1 of this survey.

Observed alt. of upper limb,	$40^{\circ} 34' 36''$
Refraction,	<u>$01' 00''$</u>
Semi-diameter,	<u>$16' 15''$</u>
	$40^{\circ} 17' 21''$
Declination,	<u>$15^{\circ} 45' 48''$</u>
	$56^{\circ} 03' 09''$
	<u>$90^{\circ} 00' 00''$</u>
Resultant Latitude,	$33^{\circ} 56' 51''$.

Long. $111^{\circ} 57' 12''$ W., from special instructions of the Surveyor General.

My watch is set for standard 105th meridian time, from which I subtract 27m. 49s. for l.m.t.

Observed magnetic declination at cor. No. 1 at 7h. 30m. a.m., l.m.t., February 6, 1915, $14^{\circ} 30'$ E., which gives a mean magnetic declination of $14^{\circ} 27'$ E.

There is no corner of the public land survey or U. S. L. M. within two miles of this claim, therefore I establish U. S. L. M. No. 317 H. E. S. in accordance with instruc-

Chains of stations, upon a prominent mesa point approximately 10.00
 chs. E. of Cave Creek, I chisel (+) at the point and
 U S L M No 317 H E S on the E. face of an embedded
 basalt stone 36 x 28 x 16 ins. above ground; and raise
 a mound of stone 6 ft. base, 4 ft. high, E. of U. S.
 L. M., from which:

A 5 in. palo verde, scribed U S L M No 317 H E S
 + B T, bears N. 81° 45' W., 75 lks.

A 5 in. palo verde, scribed U S L M No 317 H E S
 + B T, bears N. 33° 10' E., 115 lks.

① 1/4 cor. bet. secs. 4 and 33, Ts. 6 and 7 N.,
 R. 4 E., a granite stone 8 x 6 x 5 ins. above

ground, marked and witnessed as described by
 the Surveyor General, bears S. 1° 58' 55" W.,
 234.50 chs. dist., by traverse which appears
 at the end of these notes.

Cramm Mountain bears N. 35° 45' E.

Ruins at NW. end of Skull Mesa, bear N. 67° 37' E.

SW. point of Skull Mesa, bears S. 51° 20' E.

Continental Mountain bears S. 37° 54' E.

Black Mountain bears S. 3° 27' E.

Sugar Loaf Peak bears S. 20° 32' W.

Cor. No. 1, H. E. S. 317, hereinafter described,
 bears N. 59° 57' W.; 10.58 chs.

Thence N. 59° 57' W.

10.58 To cor. No. 1.

Identical with cor. H-5 of List 3-3125, which is a
 basalt stone 12 x 8 x 5 ins. above ground, marked and
 witnessed as described by the Forest Service. I de-
 stroy cor. H-5 and its witnesses; and, for cor. No. 1
 of this survey, I chisel (+) on a stone 4 x 4 x 3 ins.,
 and deposit it 18 ins. in the ground, over which I set

PRESCOTT NATIONAL FOREST

STATE OF ARIZONA

Chains

a basalt stone 28 x 14 x 9 ins., 18 ins. in the ground, chiseled (+) at the point and 1 - H E S 317 on the S. face; and raise a mound of stone 2 ft. base, 1-1/2 ft. high, S. of cor., from which:

A 5 in. mesquit, blazed and scribed

1 H E S 317 + B T, bears S. 44° 52' W.,

17 lks.

A 5 in. mesquit, blazed and scribed

1 H E S 317 + B T, bears S. 2° 45' W., 57

lks.

U. S. L. M. No. 317 H. E. S. heretofore de-

scribed, bears S. 59° 57' E., 10.58 chs.

Thence S. 46° 12' E.

Desc. SE. slope 10 ft. in undergrowth.

1.50 Right bank Cave Creek, 200 lks. wide, banks 4 ft. high, course SW. Continue over bottom.

4.50 Irrigating ditch, 4 lks. wide, course SW. Leave bottom, bears NE. and SW. and asc. W. slope 40 ft.

10.05 Cease ascending and descend S. slope 35 ft.

23.22 Wire fence, bears WNW. and ESE.

24.80 Wire fence, bears N. and S.

26.94 To cor. No. 2.

Identical with cor. H-1 of List 3-3125, which is a porphyry stone 6 x 5 x 4 ins. above ground, marked and witnessed as described by the Forest Service. I destroy cor. H-1 and its witnesses; and, for cor. No. 2 of this survey, I chisel (+) on a stone 4 x 4 x 2 ins. and deposit it 18 ins. in the ground, over which I set a porphyry stone 28 x 12 x 6 ins., 18 ins. in the ground, chiseled (+) at the point and 2 - H E S 317 on the W. face; and raise a mound of stone 2 ft. base, 1-1/2 ft. high, E. of cor., (impracticable to place mound within claim), from which:

HOMESTEAD ENTRY SURVEY NO. 317

PRESCOTT NATIONAL FOREST

STATE OF ARIZONA

Chains

A 5 in. mesquit, blazed and scribed

2 H E S 317 + B T, bears S. 60° 45' E.,
39 lks.

A 6 in. mesquit, blazed and scribed

2 H E S 317 + B T, bears N. 29° 10' W.,
88 lks.

F. S. M. to which survey for List No. 3-3125

was tied, a basalt stone 7 x 6 x 4 ft. above
ground, marked and witnessed as described by
the Forest Service, bears N. 38° 00' W.,

15.50 chs. I destroy all trace of F. S. M.

Thence S. 4° 03' E.

Desc. SW. slope 10 ft. in undergrowth.

2.05 Wire fence, bears NW. and SE.

2.90 Wire fence, bears E. and W.

4.60 Left bank Cave Creek, 4 ft. high, course SE. Continue
down Cave Creek bed. A small flow of water.

11.80 Left bank Cave Creek, 4 ft. high, course SW. Asc. NW.
slope 20 ft. in undergrowth.

17.90 Cease ascending and desc. rolling SW. slope 25 ft.

28.85 Arroyo, 50 lks. wide, banks 8 ft. high, course W.

61.00 To cor. No. 3.

At which point I chisel (+) on a stone 4 x 3 x 2 ins.
and deposit it 18 ins. in the ground, over which I set
a basalt stone 28 x 14 x 9 ins., 18 ins. in the ground,
chiseled (+) at the point and 3 H E S 317 on the NW.
face; and raise a mound of stone 2 ft. base, 1-1/2 ft.
high, NW. of cor., from which:

A 6 in. mesquit, blazed and scribed

3 H E S 317 + B T, bears N. 54° 40' W.,
41 lks.

A 5 in. mesquit, blazed and scribed

PRESCOTT NATIONAL FOREST

STATE OF ARIZONA

Chains

3 H E S 317 + B T, bears N. 83° 45' W.,

56 lks.

Cor. H-2 of List 3-3125, which is a basalt

stone 10 x 8 x 3 ins. above ground, marked

and witnessed as described by the Forest

Service, bears S. 4° 03' E., 2.01 chs. I

destroy cor. H-2 and its witnesses.

Thence West.

Over bottom in undergrowth.

2.10 Left bank Cave Creek, 120 lks. wide, banks 3 ft. high,
course South. Asc. E. slope 40 ft. in undergrowth

19.84 To cor. No. 4.

At which point I chisel + at the point and 4 - H E S

317 on the NE. face of an embedded basalt stone 18 x

12 x 6 ins. above ground; and raise a mound of stone

2 ft. base, 1-1/2 ft. high, NE. of cor., from which:

A 4 in. mesquit, blazed and scribed

4 H E S 317 + BT, bears S. 40° 10' W.,

118 lks.

A 4 in. palo verde, blazed and scribed

4 H E S 317 + B T, bears S. 38° 30' E.,

146 lks.

1/4 cor. to secs. 4 and 33, Ts. 6 and 7 N.,

R. 4 E., heretofore described, bears S.

1° 00' W., 160.15 chs. dist., by direct

measurement.

Cor. H-3 of List 3-3125, which is a basalt

stone 12 x 10 x 6 ins. above ground, marked

and witnessed as described by the Forest

Service, bears S. 5° 51' E., 1.72 chs. I

destroy cor. H-3 and its witnesses.

Chains	<p>Thence N. 5° 51' W. Desc. along rolling E. slope in undergrowth, 15 ft.</p> <p>14.05 Ravine, course E. Asc. SE. slope 80 ft.</p> <p>17.40 Ridge, bears NE. and SW. Desc. NW. slope 10 ft.</p> <p>33.20 Ridge, bears NE. and SW. Desc. N. slope 60 ft.</p> <p>43.10 Arroyo, 30 lks. wide, banks 3 ft. high, course E. Asc. SE. slope 60 ft.</p> <p>52.40 Ridge, bears NW. and SE. Desc. rolling E. slope 50 ft.</p> <p>71.34 To cor. No. 5.</p> <p>Identical with cor. H-4 of List 3-3125, which is an embedded basalt stone 12 x 6 x 6 ins. above ground, marked and witnessed as described by the Forest Service. I destroy cor. H-4 and its witnesses; and, for cor. No. 5 of this survey, I chiseled (+) at the point and 5 - H E S 317 on the E. face of the same stone; and raise a mound of stone 2 ft. base, 1-1/2 ft. high, E. of cor., from which:</p> <p style="padding-left: 40px;">A 7 in. mesquit, blazed and scribed</p> <p style="padding-left: 80px;">5 H E S 317 + B T, bears S. 65° 30' W., 143 lks.</p> <p style="padding-left: 40px;">A 7 in. mesquit, blazed and scribed</p> <p style="padding-left: 80px;">5 H E S 317 + B T, bears N. 43° 20' E., 98 lks.</p> <hr/> <p>Thence N. 21° 46' E.</p> <p>Desc. SE. slope 15 ft. in undergrowth.</p> <p>9.22 To cor. No. 1, the place of beginning.</p> <hr/> <p style="text-align: center;">AREA</p> <p>Total Area - - - - - 149.30 acres</p>
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PRESCOTT NATIONAL FOREST

STATE OF ARIZONA

Chains

IMPROVEMENTS

A tent house, 14 x 12 ft., the long side extending E. and W. and the NW. cor. of which bears S. 20° 00' E., 9.95 chs. from cor. No. 1 of this survey.

Estimated Value ----- \$ 30.00

Approximately 1 mile of wire fencing.

Estimated Value ----- \$100.00

Approximately 7 acres of cultivated land.

DESCRIPTION

This claim is situated on Cave Creek, a tributary to Salt River, at an elevation of approximately 3800 ft. and is valuable for stock raising.

There is no timber in this section.

Sufficient water for all purposes flows in Cave Creek.

The soil is a dark sandy loam in the bottom, and fertile, good crops of grain hay having been produced.

The slopes are valuable only for grazing.

There is some mineral coloring upon this claim, but no townsites, mining, coal or oil claims are known to have been located in conflict with this homestead.

Phoenix post office and railway station is 40 miles by trail and wagon road in a southerly direction.

TRAVERSE

Traverse of tie U. S. L. M. 317 H. E. S. to 1/4 cor. bet. secs. 4 and 33, Ts. 6 and 7 N., R. 4 E.

Course	Dist.	N	S	E	W
N. 59° 57' W.	10.58	5.30 ✓			9.16 ✓
S. 21° 46' W.	9.22		8.56 ✓		3.42 ✓
S. 5° 51' E.	71.34		70.97 ✓	7.27 ✓	
S. 1° 00' W.	160.15		160.13 ✓		2.80 ✓
		5.30	239.66	7.27	15.38
			5.30		7.27
S. 1° 58' 55" W.	234.50 ✓		234.36		8.11

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STATE OF ARIZONA

Chains

TRAVERSE

Cor.	Course	Dist.	N	S	E	W
1-2	S. 46° 12' E.	26.94		18.65	19.44	
2-3	S. 4° 03' E.	61.00		60.85	4.31	
3-4	West	19.84				19.84
4-5	N. 5° 51' W.	71.34	70.97			7.27
5-1	N. 21° 46' E.	9.22	8.56		3.42	
		188.34	79.53	79.50	27.17	27.11
			79.50		27.11	

Error in Lat. and Dep., .03 .06

Closing error 1:2808.

Survey completed February 6, 1915.

The list survey locates this claim in Sec. 17 T. 7 N., R. 4 E., which location is found to be in error by reason of the tie to 1/4 cor., bet. secs. 4 and 33, Ts. 6 and 7 N., R. 4 E., in connection with the establishment of U.S.L.M. No. 317 H E S.

Walter G. Turley
 Surveyor - Forest Service.

TRAVERSE

Course	Dist.	N	S	E	W
N. 59° 57' W.	10.88	8.30			9.18
S. 31° 48' W.	9.32		8.58		8.48
S. 37° 51' E.	71.34	70.97		7.27	
S. 1° 00' W.	180.18		180.18		2.30
		79.53	79.50	27.17	27.11
		79.50		27.11	

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. 317, STATE OF Arizona, Prescott.

CORNERS.	BEARING.	DISTANCE.	LATITUDES.		DEPARTURES.		DOUBLE M. D.	N. AREAS.	S. AREAS.
			NORTH.	SOUTH.	EAST.	WEST.			
1-2	S. 46° 12' E.	26.94		18 65	19 44		26 27		490 20✓
2-3	S. 4° 03' E.	61.00		60 85	4 31		49 99		5042 39✓
3-4	West	19.84				19 84	34 43		
4-5	N. 5° 51' W.	71.34	6			7 27	7 29	517 30✓	
5-1	N. 21° 46' E.	9.22	8 56		3 42		3 42	29 28	
		188.34	79 52	79 50	27 17	27 11		546 58	3532 59
				79 52	27 14	27 14			546 58
									2986 01
									149 30✓ acres.

Closing error 1:2808.

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EMH

APPROVAL

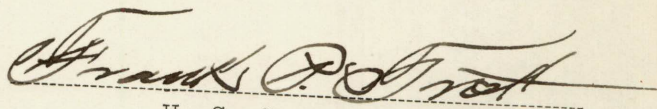
Office of the United States Surveyor General,

Phoenix, Arizona, August 14 , 1917

The foregoing field notes of Homestead Entry Survey No.

317

executed by **Walter G. Turley, Surveyor,** [Forest Service Title.]
under his special instructions, dated **January 23** , 191**5** 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.