

U. S. DEPARTMENT OF AGRICULTURE
FOREST SERVICE

JUN 2- 1916

JUN 20 1917

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FIELD NOTES

OF

HOMESTEAD ENTRY SURVEY NO. 319

SITUATED IN THE

PRESCOTT NATIONAL FOREST

ADMINISTRATIVE DISTRICT NO. 3

in

Approx. Section 8, unsurveyed, Township 9 N., Range 6 E.

~~Section 16, unsurveyed, Township 9 N., Range 6 E.~~

~~Section 17, unsurveyed, Township 9 N., Range 6 E.~~

of the

Gila and Salt River Base and Meridian.

ARIZONA

and Field Notes of ULSM No. 319 H.E.S.

Area stated in list is 50 acres.
Location in list Secs. 7 & 8.
explain?
1. P 29 & 30 "U"
2. Nelson?

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

Under special instructions dated January 23, 1915

Survey commenced February 8, 1915

Survey completed February 9, 1915

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

Applicant for listing E. F. Dugan

Residence Cordes, Arizona

Application No. 182, dated February 7, 1913

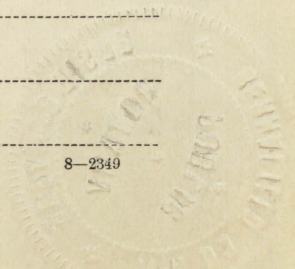
List No. 3-3106, dated March 28, 1914

Applicant for survey E. F. Dugan

Residence Cordes, Arizona

H. E. No. 025346, dated August 15, 1914

Land district 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. 319, in Approx.
un surveyed Section 8, Township 9 N., Range 6 E.,
un surveyed Section 16, Township 9 N., Range 6 E.,
un surveyed Section 17, Township 9 N., Range 6 E.
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. 3-3106 dated March 28, 1914, for
Patent, under the Act of June 11, 1906,
the same to be known as Homestead Entry Survey No. 319,
situated within the PRESCOTT National Forest, in Approx.
un surveyed Section 8, Township 9 N., Range 6 E., and
~~un surveyed Section 16, Township 9 N., Range 6 E.,~~
~~un surveyed Section 17, Township 9 N., Range 6 E.~~
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.

Elsie C. Myers
Notary Public



PRESCOTT NATIONAL FOREST

STATE OF ARIZONA

Chains

Applicant for listing, E. F. Dugan; Application No. 182, dated February 7, 1913; List No. 3-3106, dated March 28, 1914; H. E. No. 025346 made in the Phoenix Land Office on August 15, 1914 by E. F. Dugan.

Surveyed under 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. 319.

Situated in what will probably be, when surveyed, sec. 8, T. 9 N., R. 6 E., within the Prescott National Forest, Arizona.

Survey commenced February 8, 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.

February 8; 1915.

I set up my transit over cor. H-2 of List 3-3106, which is a basalt stone 10-x 4 x 6 ins. above ground, marked

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STATE OF ARIZONA.

Chains

and witnessed as described by the Forest Service; and, with telescope direct, I observe Polaris in accordance with instructions at 7h. 55m. 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. $34^{\circ} 07' 43''$ N., Long. $111^{\circ} 46' 05''$ W.

Astron. l.m.t. obsn., February 8, 1915, 7h. 55.0m.

Astron. l.m.t. U.C.Pol., Feb. 8, 1915, 4h. 16.6m.

Hour angle Pol. at obsn., 3h. 38.4m.

Azimuth Pol. at obsn., $1^{\circ} 08' 00''$ W.

With my transit set up over cor. H-2 of List 3-3106, heretofore described, and the telescope reversed in altitude and azimuth, at 8h. 06m. 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 8, 1915, 8h. 06.0m.

Astron. l.m.t., U.C.Pol. Feb. 8, 1915, 4h. 16.6m.

Hour angle Pol. at obsn., 3h. 49.4m.

Azimuth of Pol. at obsn., $1^{\circ} 10' 12''$ W.

February 8, 1915.

February 9, 1915.

I turn off $1^{\circ} 08'$, the azimuth of Polaris, to the East from its direction at 7h. 55m. p.m., l.m.t., February 8, 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 $1^{\circ} 10'$, the azimuth of Polaris, to the E. from its direction at 8h. 06m. 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.

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This line falls $0^{\circ} 00' 14''$ 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 9, 1915, I observe the sun upon the meridian for latitude at cor. No. 1 of this survey.

Observed alt. upper limb,	41° 20' 00"
Refraction	01' 00"
Semi-diameter,	<u>16' 14"</u>
	41° 02' 46"
Declination	<u>14° 49' 31"</u>
	55° 52' 17"
	<u>90° 00' 00"</u>
Resultant latitude,	34° 07' 43"

Longitude $111^{\circ} 46' 05''$ W., derived from special in-

structions from the Surveyor General, and later verified.

My watch is set for standard 105th meridian time, from which I subtract 27m. 04s. for l.m.t.

Observed magnetic declination at cor. No. 1, February 9, 1915, at 8h. 00m. a.m., $14^{\circ} 15'$ E., which reduced gives a mean magnetic declination of $14^{\circ} 14'$ E.

I am unable to find any 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. 319 H. E. S. in accordance with instructions. Upon a prominent ridge sloping North from Cedar Mountain, and approximately 35.00 chs. Southwest of Tangle Creek, I chisel + at the point and U S L M No 319 H E S on the N. face of an embedded basalt stone 18 x 16 x 16 ins. above ground; and raise a mound of stone 6 ft. base, 4 ft.

Chains high, S. of cor., from which:
 A 16 in. cedar, blazed and scribed
 U S L M No. 319 H E S + B T, bears
 S. 23° 30' E., 85 lks.
 A 10 in. cedar, blazed and scribed
 U S L M No 319 H E S + B T, bears
 N. 83 ° 00' W., 134 lks.
 North peak bears N. 85° 06' E.
 Saddle Mountain bears S. 52° 40' E.
 West Cedar Mountain bears S. 61° 50' W.
 Turret Peak bears N. 30° 00' W.
 Pine Mountain bears N. 2° 10' W.
 Right end Skeleton Ridge bears N. 7° 45' E.
 Table Mountain bears N. 65° 30' E.
 SW. cor. E. F. Dugan's dwelling bears
 N. 12° 50' E., 32.28 chs.
 Cor. No. 1, H. E. S. 319, hereinafter de-
 scribed, bears N. 49° 50' E., 19.53 chs.
 Thence N. 49° 50' E.
 On a true line by direct measurement.
 19.53 To cor. No. 1.
 Identical with cor. H-2 of List 3-3106, which is a
 basalt stone 10 x 4 x 7 ins. above ground, marked and
 witnessed as described by the Forest Service. I de-
 stroy cor. H-2 and its witnesses; and, for cor. No. 1
 of this survey, 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 6 ins., 18 ins. in the ground;
 chiseled (+) at the point and 1 - H E S 319 on the N.
 face; and raise a mound of stone 2 ft. base, 1-1/2 ft.
 high, N. of cor., from which:
 A 12 in. cedar, blazed and scribed

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Chains	<p>1 H E S 319 H E S + B T, bears S. 37° 00' E., 206 lks.</p> <p>A 14 in. cedar, blazed and scribed 1 H E S 319 H E S + B T, bears S. 36° 10' W., 198 lks.</p> <p>U. S. L. M. No. 319 H. E. S., heretofore described, bears S. 49° 50' W., 19.53 chs.</p> <hr/> <p>Thence N. 52° 15' W.</p> <p>Over bottom in undergrowth.</p> <p>17.00 Leave bottom, bears N. and S. Asc. NE. slope 15 ft.</p> <p>21.40 Point of ridge, bears N. and S. Desc. NW. slope 15 ft.</p> <p>23.48 Arroyo, 10 lks. wide, banks 1 ft. high, course NE.</p> <p>27.01 To cor. No. 2.</p> <p>Identical with cor. H-1 of List 3-3106, which is a basalt stone 8 x 6 x 5 ins. above ground, marked and witnessed as described by the Forest Service. I de- stroy 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 14 ins. in the ground; over which I set a basalt stone 24 x 9 x 7 ins., 14 ins. in the ground; chiseled (+) at the point and 2 - H E S 319 on the E. face; and raise a mound of stone 2 ft. base, 1-1/2 ft. high E. of cor., from which:</p> <p>A 7 in. catclaw, blazed and scribed 2 H E S 319 + B T, bears S. 87° 00' W., 37 lks.</p> <p>A 7 in. mesquit, blazed and scribed 2 H E S 319 + B T, bears S. 13° 00' W., 45 lks.</p> <p>F. S. M., to which list survey was tied, which is a basalt stone 8 x 5 x 5 ins. above ground,</p>
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Chains

marked and witnessed as described by
the Forest Service, bears S. 29° 30' W.,
12.12 chs. I destroy all trace of this
F. S. M. and its witnesses.

Thence N. 33° 26' E.

Desc. 5 ft. over bottom in undergrowth.

8.05 Right bank Tangle Creek, 3 ft. high, 80 lks. wide,
course E.

10.10 Left bank Tangle Creek, 3 ft. high, 80 lks. wide, course
E.

10.67 To cor. No. 3.

Identical with cor. H-6 of List 3-3106, which is a
basalt stone 8 x 6 x 5 ins. above ground, marked and
witnessed as described by the Forest Service. I de-
stroy cor. H-6 and its witnesses; and, for cor. No. 3
of this survey, I chisel (+) on a stone 4 x 4 x 2 ins.,
and deposit it 16 ins. in the ground; over which I set
a basalt stone 26 x 9 x 5 ins., 16 ins. in the ground;
chiseled (+) at the point and 3 - H E S 319 on the S.
face; and raise a mound of stone 2 ft. base, 1-1/2 ft.
high, S. of cor., from which:

A 9 in. mesquit, blazed and scribed

3 H E S 319 + B T, bears N. 26° 10' W.,
89 lks.

A 16 in. sycamore, blazed and scribed

3 H E S 319 + B T, bears N. 82° 20' W.,
104 lks.

Thence S. 63° 35' E.

Desc. SE. slope 5 ft. in undergrowth.

1.10 Left bank Tangle Creek, 3 ft. high, 80 lks. wide,

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Chains course E. Continue in bed of creek.

6.30 Left bank Tangle Creek, 13 ft. high, 80 lks. wide,
course E. Desc. mesa 20 ft. in undergrowth.

34.50 Left bank Tangle Creek, 3 ft. high, 80 lks. wide,
course E. Continue in bed of creek.

44.20 Right bank Tangle Creek, 3 ft. high, 80 lks. wide,
course E.

45.13 To cor. No. 4.
Identical with cor. H-5 of List 3-3106, which is a
quartzite stone 8 x 5 x 5 ins. above ground, marked
and witnessed as described by the Forest Service. I
destroy cor. H-5 and its witnesses; and, for cor. No.
4 of this survey, I chisel (+) on a stone 4 x 3 x 3
ins., and deposit it 16 ins. in the ground; over which
I set a basalt stone 26 x 9 x 6 ins., 16 ins. in the
ground; chiseled (+) at the point and 4 - H E S 319
on the WSW. face; and raise a mound of stone 2 ft.
base, 1-1/2 ft. high WSW. of cor., from which:
A 9 in. ash, blazed and scribed 4 H E S 319 + B T,
bears S. 23° 30' W., 35 lks.
A 9 in. ash, blazed and scribed 4 H E S 319 + B T,
bears S. 36° 45' E., 28 lks.

Thence S. 15° 07' W.
Asc. N. slope 15 ft. in undergrowth.

7.00 Right bank arroyo, 6 ft. high, course N.

7.55 Left bank arroyo, 6 ft. high, course N.

7.70 To cor. No. 5.
Identical with cor. H-4 of List 3-3106, which is a
basalt stone 10 x 8 x 6 ins. above ground, marked and
witnessed as described by the Forest Service. I de-
stroy cor. H-4 and its witnesses; and, for cor. No. 5

Chains

of this survey, I chisel (+) on a stone 3 x 3 x 2 ins., and deposit it 16 ins. in the ground; over which I set a basalt stone 26 x 9 x 6 ins., 16 ins. in the ground; chiseled (+) at the point and 5 - H E S 319 on the NW. face; and raise a mound of stone 2 ft. base, 1-1/2 ft. high, NW. of cor.; from which:

A 4 in. mesquit, blazed and scribed

5 H E S 319 + B T, bears S: 59° 00' W.,

177 lks.

A 5 in. mesquit, blazed and scribed

5 H E S 319 + B T, bears N. 58° 15' E.,

66 lks.

Thence N. 72° 05' W.

Asc. NE. slope 15 ft. in undergrowth, along fence.

3.00 Point of ridge, bears N. and S. Desc. NW. slope 15 ft.

17.86 To cor. No. 6.

Identical with cor. H-3 of List 3-3106, which is a basalt stone 8 x 6 x 5 ins. above ground, marked and witnessed as described by the Forest Service. I destroy cor. H-3 and its witnesses; and, for cor. No. 6

of this survey, I chisel (+) on a stone 4 x 3 x 2 ins., and deposit it 16 ins. in the ground; over which I set a basalt stone 26 x 15 x 6 ins., 16 ins. in the ground; chiseled (+) at the point and 6 - H E S 319 on the N. face; and raise a mound of stone 2 ft. base, 1-1/2 ft.

high N. of cor., from which:

A 7 in. mesquit, blazed and scribed

6 H E S 319 + B T, bears N. 34° 45' W.,

82 lks.

An 8 in. mesquit, blazed and scribed

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6 H E S 319 + B T, bears N. 80° 00' E.,
25 lks.

Thence S. 60° 39' W.

Asc. N. slope 5 ft. in undergrowth, along fence.

6.83 To cor. No. 1, the place of beginning.

AREA

Total Area - - - - - 54.41 acres

IMPROVEMENTS

A frame dwelling, 20 x 16 ft., the long side extending
N. and S. and the SW. cor. of which bears N. 79° 45'
E., 13.60 chs. from cor. No. 2 of this survey.

Estimated Value ----- \$200.00

A well, 4 x 4 x 15 ft., and pump, the center of which
bears N. 80° 00' E., 13.41 chs. from cor. No. 2 of
this survey.

Estimated Value ----- \$ 75.00

A frame shop, 14 x 12 ft., the long side extending
E. and W. and the SW. cor. of which bears N. 77° 30'
E., 13.10 chs. from cor. No. 2 of this survey.

Estimated Value ----- \$150.00

Approximately 1-1/2 miles of wire fencing.

Estimated Value ----- \$175.00

Approximately 8 acres of cultivated land.

DESCRIPTION

This claim is situated on Tangle Creek, a tributary
to the Verde River, at an elevation of approximately
3000 ft., and is chiefly valuable for stock raising.

Chains There is no timber of commercial value in this section.
Cottonwood and sycamore grow along the Creek.
Sufficient water for all purposes flows or seeps in
Tangle Creek.
The soil is a sandy loam and produces the ordinary crops
of the temperate zone. Good crops of grain have
been produced.

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

Cordes post office is 30 miles and Turkey Creek railway
station 40 miles by trail and wagon road in a north-
westerly direction.
There are no conflicts or adjoining claims.

TRAVERSE

Cor.	Course	Dist.	N	S	E	W
1-2	N. 52° 15' W.	27.01	16.54 ✓			21.36 ✓
2-3	N. 33° 26' E.	10.67	8.90 ✓		5.88 ✓	
3-4	S. 63° 35' E.	45.13		20.08	40.42	
4-5	S. 15° 07' W.	7.70		7.43 ✓		2.01 ✓
5-6	N. 72° 05' W.	17.86	5.49 ✓			16.99 ✓
6-1	S. 60° 39' W.	6.83		3.35 ✓		5.95 ✓
			115.20	30.93	30.86	46.30
				30.86		46.30
Error in Lat. and Dep.				.07		.01

Closing error 1:1629 ✓

Survey completed February 9, 1915.

Walter J. Turley

Surveyor - 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. 319, STATE OF ARIZONA.

CORNERS.	BEARING.	DISTANCE.	LATITUDES.		DEPARTURES.		DOUBLE M. D.		N. AREAS.	S. AREAS.
			NORTH.	SOUTH.	EAST.	WEST.				
1-2	N. 52° 15' W.	27.01	16 54 ²		21 36		21 36	352 87 [✓]		
2-3	N. 33° 26' E.	10.67	8 90 ⁸⁹		5 88		5 88	52 27 [✓]		
3-4	S. 63° 55' E.	45.13		20 08 ¹¹	40 42 ³		52 19		1049 54 [✓]	
4-5	S. 15° 07' W.	7.70		7 43	2 01		90 61		673 23 [✓]	
5-6	N. 72° 05' W.	17.86	5 49 ⁸		16 99		71 61	392 42 [✓]		
6-1	S. 60° 32' W.	6.83		3 35	5 95		48 67		163 04 [✓]	
		115.20	30 93	30 86	46 30			797 56	1885 81	
			30 89	30 89	46 31				797 56	
									1088 25	
									54 41 [✓]	acres.
Closing error 1:1629										

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EMH

APPROVAL

Office of the United States Surveyor General,

Phoenix, Arizona, March 27 , 1918.

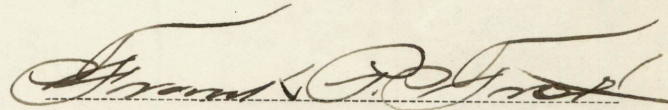
The foregoing field notes of Homestead Entry Survey No.

319

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

[Forest Service Title.]

under his special instructions, dated **January 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.