

ORIGINAL

149  
DEC 3-1913

U. S. DEPARTMENT OF AGRICULTURE  
FOREST SERVICE

FIELD NOTES

OF

HOMESTEAD ENTRY SURVEY NO. 320

SITUATED IN THE **PRESCOTT** NATIONAL FOREST

ADMINISTRATIVE DISTRICT NO. 3

In Section **14**, un surveyed, Township **11 N.** Range **6 E.**

Also

Field notes of U. S. L. M. No. 320

of the

**Gila and Salt River Base and Meridian.**

State of

**Arizona.**

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Applicant for listing **Geo. E. Lancaster,**  
Residence **Camp Verde, Arizona.**  
Application No. **176** ✓, dated **January 2**, 19 **14.** ✓  
List No. **3-3224** ✓, dated **July 1**, 19 **14.** ✓

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Applicant for survey **Geo. E. Lancaster,**  
Residence **Camp Verde, Arizona.**  
H. E. No. **026328** ✓, dated **January 21,**, 19 **15.** ✓  
Land District **Phoenix, Arizona.**

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Survey executed by **R. P. A. Johnson,** Surveyor **Draftsman.**  
[Forest Service Title.]  
Under special instructions dated **February 11,**, 19 **15.** ✓  
Survey commenced **April 23,**, 19 **15.**  
Survey completed **April 23,**, 19 **15.**  
Under Acts of **June 11, 1906 and June 30, 1914.** ✓

180

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. **320**, 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 ex-  
pensive and inconvenient to appear  
before an officer to administer the  
oaths to assistants; hence, they  
were taken by the surveyor.

-----  
*Charles D. Hooker*  
-----  
*W. B. Baer*  
-----

Chainman  
Chainman

Subscribed and sworn to before me this *twenty third* day of  
*May*, 19*15*.

-----  
*R. P. A. Johnson*  
-----  
*Surveyor Draftsman*  
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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  
**February 11**, 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. **3-3224**, dated **July 1**, 19**14**, for  
**Patent**, under the Act of **June 11**, 19**06**,  
the same to be known as Homestead Entry Survey No. **320**,  
situated within the **Prescott** National Forest, in  
**un**surveyed Section **14**, Township **11 N.**, Range **6 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 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.

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

Subscribed and sworn to before me this *twint* day of  
*June*, 19*15*.

-----  
*Elsie C. Myers*  
-----  
*Notary Public*  
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8-2349

My Commission expires April 20, 1915.

PRESCOTT NATIONAL FOREST

STATE OF ARIZONA

Chains

Applicant for listing, Geo. E. Lancaster; Application No. 176, dated January 2, 1914; List No. 3-3224, dated July 1, 1914; H. E. No. 026328, dated January 21, 1915, and made at the Phoenix Land Office by Geo. E. Lancaster. Surveyed under special instructions from the Surveyor General for Arizona, dated February 11, 1915, and designated as Homestead Entry Survey, No. 320.

Situated in T. 11 N., R. 6 E., in what will probably be when surveyed sec. 14, Gila and Salt River Base and Meridian, Prescott National Forest, Arizona;

Location as given in list survey was only an approximation as claim is situated in unsurveyed and poorly mapped country. The location as given in this survey is determined by bearings to natural objects and fairly well located points on Arizona Power Co. project as these appear on Prescott Base Map U.S.L.M.No. 44 H E S was in plain view, from U.S.L.M.No. 320 H E S and the location as given in original notes of the first named monument is evidently in error.

Survey commenced April 23, 1915, and executed with a Buff and Buff transit.

I test the adjustments of the instrument and make necessary corrections.

All distances are horizontal and were reduced from measurements made on the slope with a 500 link steel tape and the slope angles determined with a clinometer.

April 23, 1915.

At 2h. 44.8m. p.m. l.m.t., I observe the altitude of the sun for azimuth at cor. N. 4, of this survey. The reading on the reference object 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 l.m.t. Lat. 34° 19' N., Long. 111° 43' 30" W. obtained from special instructions of the Surveyor General.

Telescope	Time	Hor. Ang.	Vert. Ang.
Direct	2h. 44m. 10s.	69° 55'	46° 16'
Reversed.	2h. 45m. 20s.	69° 25'	46° 33'

157

HOMESTEAD ENTRY SURVEY NO. 320

PRESCOTT NATIONAL FOREST

ARIZONA

STATE OF

Chains Bearing of reference object N. 00° 29' 11" E.  
 At 2h. 47.8m. p.m. l.m.t. I again observe the altitude of the sun for azimuth at cor. No. 4. The reading on the reference object is set at zero and the sun was observed in the upper left and lower right quadrants of the field.

Telescope	Time	Hor. Angle	Vert. Angle
Direct	2h. 47m. 15s.	70° 36'	45° 38'
Reversed	2h. 48m. 20s.	70° 04'	45° 57'

Bearing of reference object is N. 00° 29' 20" E.  
 The mean of these is N. 0° 29' 16" E. and to the corresponding meridian all courses of this survey are referred.

April 23, 1915.

There being no cor. of the public land survey within the prescribed limits, I establish U S L M No. 320 H E S on top of a high ridge between Houston Creek and Verde River, approximately 800 ft. above Houston Creek. I mark a + on top of an imbedded malpais boulder 12 x 8 x 6 ins. above ground, and U S L M No. 320 H E S on the E. side of the same stone; and raise a mound of stone

6 ft. base, 5 ft. high; alongside, whence;

U S L M No. 44 H E S bears N. 76° 30' W.,  
 3 miles dist., approximately.

Squaw Butte SW. of junction of Verde and Houston Creek bears S. 13° 55' E. 3 1/2 miles dist., approx.

Junction of Verde and Houston Creeks bears S. 25° 11' E. 3 miles dist., approximately.

South end Ike's Backbone bears S. 86° 54' E.,  
 2 miles dist., approximately.

Power House Arizona Power Co., bears N. 16° 30' E., 2 miles dist., approximately.

Center of large tank top drop to Power House bears N. 35° 33' E.

Junction of Fossil Creek with Verde River bears

Telescope	Time	Hor. Angle	Vert. Angle
Direct	2h. 47m. 15s.	70° 36'	45° 38'
Reversed	2h. 48m. 20s.	70° 04'	45° 57'

153

PRESCOTT NATIONAL FOREST

STATE OF ARIZONA

Chains

S. 85° 09' E. 2 1/2 miles dist., approximately.

Tower No. 279 on Arizona Power Company's trans-

mission line to Mayer which is situated on edge

of Tule Mesa bears N. 69° 00' W. 5 1/2 miles dist. approximately.

Highest Point Skeleton Ridge bears S. 53° 52' W.

2 miles dist., approximately.

Highest Point on Pine Mountain bears S. 69° 35' W.

5 miles dist., approximately.

Thence S. 26° 36' W.

By direct measurement.

42.58 To cor. No. 1 the place of beginning.

Identical with cor. H-1 of the list survey, which is a

malpais rock marked and witnessed as described by the

Forest Service. I destroy all trace of this list cor.

and at this point I set a malpais stone 24 x 16 x 17

ins. 14 ins. in the ground, over a small stone marked

with a cross, chiseled 1-H-E-S 320 on SW. face and

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

cor. from which as marked.

An oak 4 ins. dia. bears S. 5° 26' E. 251 lks.

dist. scribed 1 H E S 320 B T

A juniper 8 ins. dia. bears N. 9° 53' W. 198 lks.

dist. scribed 1 H E S 320 B T

U.S.L.M. No. 320 H.E.S. bears N. 26° 36' E.

42.58 chs. dist.

Lat. 34° 19' N., Long. 111° 43' 12" W. by account from

special instructions.

Mag. va. at 12 p.m. N. 14° 31' E. Mean mag. decl.

Identical with cor. H-3 of the list survey.

malpais rock marked and witnessed as described by the

Forest Service. I destroy all trace of this list

cor. and at this point I set a malpais stone 24 x 16

x 4 ins. in the ground over a small stone marked

PRESCOTT NATIONAL FOREST  
STATE OF ARIZONA

Chains Thence S. 29° 16' E. Desc. 45 ft. along SW. slope to arroyo.

0.15 Fence bears S. 60° W. and S. 29° 16' E. Continue along fence.

7.15 Fence bears S. 15° W. Leave fence.

7.65 Arroyo 10 lks. wide, banks 1 ft. high, course S. 25° E. Asc. 10 ft. along SW. slope.

11.40 Top asc. Desc. 40 ft. to arroyo.

13.20 Arroyo 25 lks. wide, 30 ft. deep, course S. 57° W. Asc. 40 ft. to cor.

15.62 To cor. No. 2. Point falls on an imbedded malpais stone showing 36 x 24 x 18 ins. above ground. I chisel (+) on top and 2-H E S 320 on W. face and raise a mound of stone 3 ft. base, 2 ft. high W. of cor. from which a juniper 12 ins. dia. bears S. 7° 15' W. 3 lks. dist. scribed 2 H E S 320 B T M. No other bearings available. Pits impracticable. Cor. H-2 of the list survey which is a juniper 12 ins. dia. marked as described by the Forest Service bears S. 7° 15' W. 3 lks. dist. I destroy all trace of list survey.

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Thence S. 51° 54' W. Desc. 90 ft. to creek.

3.00 Fence bears S. 45° E. and N. 45° W.

3.20 Houston Creek, 30 lks. wide, banks 2 ft. high, course S. 45° E. Asc. 54 ft. to cor.

5.20 To cor. No. 3. Identical with cor. H-3 of the list survey which is a malpais rock marked and witnessed as described by the Forest Service. I destroy all trace of this list cor. and at this point I set a malpais stone 24 x 10 x 4 ins. 6 ins. in the ground over a small stone marked

154

155

PRESCOTT NATIONAL FOREST

STATE OF ARIZONA

Chains with a cross, chiseled 3-H. E. S. 320 on N. face and raise a mound of stone 3 ft. base, 2 ft. high, around cor. to protect it. (Rocky, impracticable to set cor. in ground.) Whence

A juniper 8 ins. dia. bears N. 27° 46' E. 64 lks. dist. scribed 3 H E S 320 B T

A palo verde 4 ins. dia. bears N. 71° 30' W. 96 lks. dist. scribed 3 H E S 320 B T

Thence N. 44° 31' W.

Asc. 50 ft. along NE. slope to ridge.

5.90 Top ridge. Desc. 50 ft. along NE. slope to arroyo.

17.70 Arroyo 20 lks. wide, banks 2 ft. high, course E.

Asc. E. slope 50 ft. to cor.

24.10 Fence bears NE. and SW.

24.25 To cor. No. 4.

Identical with cor. H-4 of the list survey which is a mal-

pais stone marked and witnessed as described by the

Forest Service. I destroy all trace of this list cor.

and at this point I set a sandstone conglomerate

24 x 18 x 8 ins. on top of rock in place, chiseled

4-H E S 320 on SE. face and raise a mound of stone

4 ft. base, 3 ft. around cor. to protect it, whence

A juniper 4 ins. dia. bears S. 68° 00' E.

68 lks. dist. marked 4 H E S 320 B T

A juniper 12 ins. dia. bears S. 51° 20' E.

44 lks. dist. marked 4 H E S 320 B T

Thence S. 88° 08' E.

Descend 70 ft. to creek.

0.15 Fence bears NW. and SE.

1.80 Houston creek 35 lks. wide, banks 6 ft. high, course

S. 60° E. Asc. 85 ft. to cor.

13.46 To cor. No. 1 the place of beginning.

Chains Total area.....15.26 acres

Improvements.

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

A frame dwelling 28 x 15 ft. the long side of which bears NW. and SE. and the NE. cor. of which bears S. 63° 20' W. 6.05 chs. dist. from cor. No. 1.

Value.....\$350.00

There is approximately one half mile of wire fence.

Value.....\$ 50.00

Description.

This claim is situated on Houston Creek 1 1/2 miles W. of the Verde River and 2 1/2 miles SW. of Arizona Power Company's power house.

The general slope is to SE. with NE. and SW. exposures.

The SW. exposure is open and rocky and NE. exposure is rocky and covered with oak brush. The bottom land is rich loam well adapted to alfalfa and fruit raising.

Houston Creek furnishes sufficient water for domestic use and with a small dam will furnish sufficient water to irrigate the entire tract.

I saw no indication of mineral upon this claim.

Conflicts and Adjoining Claims.

There are no conflicting or adjoining claims. Verde River withdrawal under Act of June 17, 1902 is approximately 1/2 mile E. of tract. I find no trace of reservoir, conduit, transmission and pole line right of way mentioned in the special instructions.



PRESCOTT NATIONAL FOREST

STATE OF ARIZONA

Chains

Camp Verde the nearest post office is 25 miles in a north-  
erly direction, and can only be reached by trail.

Mayer the nearest railroad point is 50 miles to west with  
fair wagon roads with exception of 3 miles which must  
be traveled by trail.

Traverse.

Cor.	Course	Dist.	N.	S.	E.	W.
1-2	S. 29° 16' E.	15.62		13.63	7.64	
2-3	S. 51° 54' W.	5.20		3.21		4.09
3-4	N. 44° 31' W.	24.25	17.29			17.00
4-1	S. 88° 08' E.	13.46		0.44	13.45	
		<u>58.53</u>	17.29	17.28	21.09	21.09
			<u>17.28</u>		<u>21.09</u>	
	Error in lat. and dep.		.01		.00	

Closing error 1:5853

Survey completed April 23, 1915.

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

Chain Camp Verde the nearest post office is 25 miles in south-  
 erty direction, and can only be reached by trail.  
 Meyer the nearest railroad point is 50 miles to west with  
 that wagon roads with exception of 3 miles which must  
 be traveled by trail.

Traverse.

Cor.	Course	Dist.	N.	S.	E.	W.
1-2	S. 29° 16' E.	13.63		13.63	7.64	
2-3	S. 51° 54' W.	5.30		3.21		4.09
3-4	N. 44° 31' W.	24.35	17.29			17.00
4-1	S. 68° 08' E.	13.43		0.44	13.43	
		58.53	17.29	17.28	21.09	21.09
			17.28		21.09	
			01		00	

Error in lat. and dep.

Closing error 1:5853

Survey completed April 28, 1915.

*[Signature]*  
 Surveyor

159

PRESCOTT NATIONAL FOREST

STATE OF ARIZONA

Chains

380 Computations.

Azimuth from Direct Solar April 23, cor. No. 4.

Lat. 34° 19' N. Long. 111° 43' 30" W. elevation 3800 ft.

Observation.

Telescope	Time	Hor. Ang.	Vert. Ang.	Sun.
Direct	2h. 44m. 10s.	69° 55'	46° 16'	°+
Reversed	2h. 45m. 20s.	69° 25'	46° 35'	t
Mean	2h. 44m. 45s.	69° 40'	46° 24' 30"	
	7h. 26m. 54s.		48" ref.	
	10h. 11m. 39s.		46° 23' 42"	

Dec. = 12° 15' 46.7" + 50.32 x 10-1/5 = 12° 24' 20" ✓

Cos. Q =  $\frac{+ \sin 12^\circ 24' 20''}{\cos 34^\circ 19' \times \cos 46^\circ 23' 42''} - \tan 34^\circ 19' \times$

$\tan 46^\circ 23' 42''$

log. sin = 12° 24' 20" = +9.332095 ✓

log. cos = 34° 19' = -9.916946 ✓

log. cos. = 46° 23' 42" = -9.838650 ✓  
9.576499 = log. +.37714 ✓

log. tan = 34° 19' = -9.834154 ✓

log. tan = 46° 23' 42" = -10.021156 ✓  
9.855310 = log. -.71665 ✓

Cos. Q = .33951 ✓

Q = 70° 09' 11" ✓

Bearing of object N. 00° 29' 11" E. ✓

Azimuth from Direct Solar April 23, at cor. No. 4

Lat. 34° 19' N. Long. 111° 43' 30" W. Elevation 3800 ft.

Observation.

Telescope	Time	Hor. Ang.	Vert. Ang.	Sun.
Direct	2h. 47m. 15s.	70° 36'	45° 38'	°+
Reversed	2h. 48m. 20s.	70° 04'	45° 57'	to
Mean	2h. 47m. 47s.	70° 20'	45° 37' 30"	
	7h. 26m. 54s.		49" ref.	
	10h. 14m. 41s.		45° 46' 41"	

Dec. = 12° 15' 46.7" + 50.32 x 10<sup>1/5</sup> = 12° 24' 23" ✓

Cos. Q =  $\frac{\sin 12^\circ 24' 23''}{\cos 34^\circ 19' \times \cos 46^\circ 23' 42''} - \tan 34^\circ 19' \times$

$\tan 46^\circ 23' 42''$

PRESCOTT NATIONAL FOREST

STATE OF ARIZONA

Chains

$\log \sin 12^\circ 24' .23'' = +9.332023$

$\log \cos 34^\circ 19' = -9.916946$

$\log \cos 46^\circ 23' 42'' = -9.843507$

$9.571579 = \log .37288$

$\log \tan 34^\circ 19' = 9.834154$

$\log \tan 46^\circ 23' 42'' = 10.011797$

$\cos. Q = .32850$

$Q = 70^\circ 49' 20''$

Bearing of object N.  $00^\circ 29' 20''$  E.

$\log \sin 12^\circ 24' .23'' = +9.332023$

$\log \tan 46^\circ 23' 42'' = 10.011797$

$\log \sin 12^\circ 24' .23'' = +9.332023$

$\log \cos 34^\circ 19' = -9.916946$

$\log \cos 46^\circ 23' 42'' = -9.843507$

$9.571579 = \log .37288$

$\log \tan 34^\circ 19' = 9.834154$

$\log \tan 46^\circ 23' 42'' = 10.011797$

$9.571579 = \log .37288$

$\cos. Q = .32850$

$Q = 70^\circ 49' 20''$

Bearing of object N.  $00^\circ 29' 20''$  E.

Azimuth from Direct Solar April 23, at cor. No. 4

Lat.  $34^\circ 19'$  N. Long.  $111^\circ 43' 30''$  W. Elevation 3800 ft.

Observation.

Telescope Time Hor. Ang. Vert. Ang. Sun.

Direct Sh. 47m. 15a. 70° 35'

Reversed Sh. 48m. 30a. 70° 04'

Mean Sh. 47m. 45a. 70° 20'

W. 2cm. 54a. 45° 57' 30"

Ion. 14m. 41a. 45° 48' 41"

$\log \sin 12^\circ 24' .23'' = +9.332023$

$\log \tan 46^\circ 23' 42'' = 10.011797$

$\log \cos 34^\circ 19' = -9.916946$

$\log \tan 46^\circ 23' 42'' = 10.011797$

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. 320, STATE OF Arizona

CORNERS.	BEARING.	DISTANCE.	LATITUDES.		DEPARTURES.		DOUBLE M. D.	N. AREAS.	S. AREAS.
			NORTH.	SOUTH.	EAST.	WEST.			
1-2	S. 29° 16' E. 15.62			13.63	7.64		34.54	470.78	
2-3	S. 51° 54' W. 5.20		17.28	3.21		38.09		122.27	
3-4	N. 44° 31' W. 24.25		17.29			17.00	293.76		
4-1	S. 88° 08' E. 13.46			.44	13.45	13.45		5.92	
		58.53	17.29	17.28	21.09	21.09		598.97	
			17.28	17.28	21.09	21.09		293.76	
					21.09	21.09		293.76	
								<u>305.21</u>	
								15.26 A.	
Closing error 1:5853									

101

T.A