

U. S. DEPARTMENT OF AGRICULTURE
FOREST SERVICE

JUN 2-1916

FIELD NOTES

OF

HOMESTEAD ENTRY SURVEY NO. 312

SITUATED IN THE

TONTO NATIONAL FOREST

ADMINISTRATIVE DISTRICT NO. 3

in

Section 1, unsurveyed, Township 7 N., Range 6 E.

Section 2, unsurveyed, Township 7 N., Range 6 E.

of the

Gila and Salt River Base and Meridian.

ARIZONA

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

Under special instructions dated October 26, 1914

Survey commenced January 28, 1915

Survey completed January 29, 1915

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

Applicant for listing J. Marion Sears,

Residence Phoenix, Arizona

Application No. 185, dated August 14, 1909

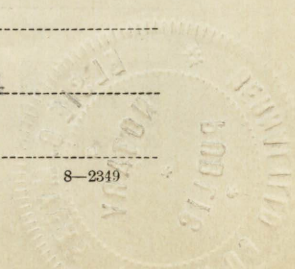
List No. 3-2931, dated December 15, 1913

Applicant for survey J. Marion Sears,

Residence Phoenix, Arizona

H. E. No. 4606, dated March 14, 1914

Land district Phoenix, Arizona



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. 312, in
unsurveyed Section 1, Township 7 N., Range 6 E.,
unsurveyed Section 2, Township 7 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.

W. J. 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
that, in strict conformity with the special instructions of
the United States Surveyor General for Arizona, dated
October 26, 1914, 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, No3-2931, dated Dec. 15, 1913, for
Patent, under the Act of June 11, 1906,
the same to be known as Homestead Entry Survey No. 312,
situated within the TONTO National Forest, in
unsurveyed Section 1, Township 7 N., Range 6 E., and
unsurveyed Section 2, Township 7 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 23rd day of
February, 1915.

Elsie C. Myers
Notary Public



TONTONATIONAL FOREST

STATE OF ARIZONA

Chains Applicant for listing, J. Marion Sears; Application No. 185, dated August 14, 1909; List No. 3-2931, dated December 15, 1913; Homestead Entry No. 024606, made in the Phoenix Land Office on March 14, 1914 by J. Marion Sears, whose post office address is Phoenix, Arizona. Surveyed under Acts of June 11, 1906 and June 30, 1914, and special instructions from the Surveyor General for Arizona, dated October 26, 1914, and designated as Homestead Entry Survey No. 312. Situated in what will probably be, when surveyed, secs. 1 and 2, T. 7 N., R. 6 E., Gila and Salt River Base and Meridian, within the Tonto National Forest, Arizona.

Survey commenced January 28, 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
 January 28, 1915.
 I set up my transit over cor. H-4 of List 3-2931, which is a quartzite stone 10 x 10 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 8h. 15m. 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. $33^{\circ} 59' N.$ and Long. $111^{\circ} 41' 36'' W.$
 Astron. l.m.t. obsn., January 28, 1915, 8h. 15.0m.
 Astron. l.m.t. U.C. Pol., Jan. 28, 1915, 5h. 00.0m.
 Hour angle Pol. at obsn., 3h. 15.0m.
 Azimuth Pol. at obsn., $1^{\circ} 02' 42'' W.$

With my transit set up over cor. H-4 of List 3-2931, heretofore described, and the telescope reversed in altitude and azimuth, at 8h. 24m. 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., January 28, 1915, 8h. 24.0m.
 Astron. l.m.t., U.C. Pol., Jan. 28, 1915, 5h. 00.0m.
 Hour angle Pol. at obsn., 3h. 24.0m.
 Azimuth of Pol. at obsn., $1^{\circ} 04' 54'' W.$

January 28, 1915.

January 29, 1915.
 I turn off $1^{\circ} 02' - 1/2'$, the azimuth of Polaris, to the E. from its direction at 8h. 15m. p.m., l.m.t., January 28, 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.

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Chains I also turn off $1^{\circ} 05'$, the azimuth of Polaris, to the
 E. from its direction at 8h. 24m. 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 $0^{\circ} 00' 32''$ 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.

I observe the sun upon the meridian for latitude at
 cor. No. 1 of this survey on January 29, 1915.

Observed alt. upper limb,	$37^{\circ} 59' 00''$
Refraction,	$01' 07''$
Semi-diameter,	<u>$16' 16''$</u>
Declination,	$37^{\circ} 41' 37''$
	<u>$18^{\circ} 19' 23''$</u>
	$56^{\circ} 01' 00''$
	<u>$90^{\circ} 00' 00''$</u>

Latitude, $33^{\circ} 59' 00''$

Observed magnetic declination, January 29, 1915 at 8h.

00m. a.m., l.m.t. at cor. No. 1, $14^{\circ} 28' E.$, which

reduced gives a mean magnetic declination of $14^{\circ} 27' E.$

My watch is set for standard 105th. meridian time,

from which I subtract 24m. 03s. for l.m.t.

I am unable to find any 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. 312 H. E. S. in ac-

cordance with instructions. Upon a high butte approx-

imately one mile N. of the confluence of Davenport

arroyo with the Verde River. I chisel + at the point

and U S L M No 312 H E S on the NW. face of an embedded

HOMESTEAD ENTRY SURVEY NO. 312

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Chains
 .basalt stone 5 x 5 x 4 ft. above ground; and raise a
 mound of stone 6 ft. base, 4 ft. high, E. of cor.,
 from which:
 E. end of proposed dam for Horseshoe Reservoir
 bears N. 69° 30' W., approximately 1 mile.
 Mt. Buford bears S. 52° 00' W., approximately
 6-1/2 miles.
 Mesa Mountain (Black Mt.) bears N. 51° 12' E.,
 approximately 4-1/2 miles.
 Davenport Butte bears N. 66° 30' E., approxi-
 mately 7 miles.
 E. end Cedar Mountain bears N. 34° 00' W.,
 approximately 7-1/2 miles.
 Mazatzal Peak bears N. 70° 45' E., approximately
 15 miles.
 Saddle Mountain bears S. 82° 08' E., approximately
 10-1/2 miles.
 Mouth of Lime Creek bears N. 67° 00' W., approx-
 imately 1-1/2 miles.
 Mouth of Sycamore Creek bears N. 4° 30' W.,
 approximately 5-1/2 miles.
 Cor. No. 1 H.E. S. 312, hereinafter described,
 bears S. 12° 45' W., 45.22 chs.

Thence S. 12° 45' W.

On a true line by direct measurement.

45.22 To cor. No. 1.
 Identical with cor. H-4 of List 3-2931, which is a
 quartzite stone 10 x 10 x 3 ins. above ground, 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 chisel (+) on a stone 4 x 3 x 2 ins.
 and deposit it 16 ins. in the ground; over which I set

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a quartzite stone 26 x 9 x 5 ins., 16 ins. in the ground; chiseled (+) at the point and 1 - H E S 312 on the SW. face; and raise a mound of stone 2 ft. base, 1-1/2 ft. high, SW. of cor., from which:

A 20 in. mesquit, blazed and scribed 1 H E S 312 + B T, bears S. 3° 20' E., 38 lks.

A 12 in. mesquit, blazed and scribed 1 H E S 312 + B T, bears N. 53° 30' E., 75 lks.

U. S. L. M. No. 312, heretofore described, bears N. 12° 45' E., 45.22 chs.

Lat. 33° 59' N. by obsn. Long. 111° 41' 36" W. from special instructions of the Surveyor General.

Thence S. 8° 03' E.

Desc. 10 ft. over bottom in undergrowth.

17.55 Wire fence, bears NE. and SW.

21.50 Right bank Davenport Arroyo, 15 ft. high, course S.

23.65 Right bank Davenport Arroyo, 10 ft. high, course SE.

25.01 To cor. No. 2.

Identical with cor. H-3 of List 3-2931, which is a quartzite stone 8 x 8 x 4 ins. above ground, marked and witnessed as described by the Forest Service. I destroy cor. H-3 and its witnesses; and, for cor. No. 2 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 9 x 5 ins., 16 ins. in the ground, chiseled (+) at the point and 2 - H E S 312 on the NW. face; and raise a mound of stone 2 ft. base, 1-1/2 ft. high, NW. of cor., from which:

A 12 in. mesquit, blazed and scribed 2 H E S 312 + B T, bears N. 72° 10' W., 72 lks.

A 10 in. mesquit, blazed and scribed 2 H E S 312 + B T, bears N. 19° 32' W.,

Chains

117 lks.

Thence S. 80° 58' W. Over bottom in undergrowth.

13.65 Wire fence, bears NE. and SW. Enter cultivated land.

15.50 Wire fence, bears N. and S. Leave cultivated land.

33.30 To cor. No. 3.

.At which point I chiseled (+) on a stone 4 x 4 x 2 ins. and deposit it 20 ins. in the ground; over which I set a quartzite stone 30 x 10 x 8 ins., 20 ins. in the ground; chiseled (+) at the point and 3 - H.E S 312 on the N. face; and raise a mound of stone 2 ft. base, 1-1/2 ft. high, N. of cor., from which:

A 10 in. mesquit, blazed and scribed

3 H.E S 312 + B T, bears S. 5° 00' E.,

6 lks.

A 10 in. mesquit, blazed and scribed

3 H.E S 312 + B T, bears S. 73° 00' E.,

29 lks.

Cor. H-2 of the list survey, which is a

quartzite stone 10 x 8 x 5 ins. above ground,

marked and witnessed as described by the

Forest Service, bears South 312 lks. I

destroy cor. H-2 and its witnesses.

Thence S. 87° 49' W.

Over bottom in undergrowth.

12.50 Ranch road, bears N. and S.

16.50 Wire fence, bears WNW. and ESE.

21.25 Road, bears WNW. and ESE.

26.96 To cor. No. 4.

Identical with cor. H-1 of List 3-2931, which is a quartzite stone 10 x 10 x 5 ins. above ground, marked and witnessed as described by the Forest Service. I

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destroy cor. H-1 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 quartzite stone 26 x 17 x 10 ins., 16 ins. in the ground; chiseled (+) at the point and 4 - H E S 312 on the NE. face; and raise a mound of stone 2 ft. base, 1-1/2 ft. high, NE. of cor., from which:

A 15 in. mesquit, blazed and scribed
4 H E S 312 + B T, bears N. 48° 25' E.,
24 lks.

A 14 in. mesquit, blazed and scribed
4 H E S 312 + B T, bears S. 4° 40' E.,
13 lks.

Thence N. 9° 41' W.

Asc. 5 ft. over bottom in undergrowth.

0.56 Road, bears E. and W.

1.66 Cor. wire fence; fence bears E., W. and N. 9° 41' W.

4.72 Cor. wire fence; fence bears N. 9° 41' W., S. 9° 41' E. and East.

20.00 Cor. fence, bears E., W., N. 9° 41' W. and S. 9° 41' E.

20.20 Right bank old ditch, 23 lks. wide, banks 3 ft. high, course E.

25.36 Cor. fence; fence bears E., W. and S. 9° 41' E.

26.15 To cor. No. 5.
Identical with cor. H-5 of List 3-2931, which is a quartzite boulder 12 x 10 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. 5 of this survey, I chisel (+) on a stone 4 x 3 x 2 ins. and deposit it 15 ins. in the ground; over which I set a quartzite stone 25 x 12 x 5 ins., 15 ins. in the ground, chiseled (+) at the point and

Chains 5 - H E S 312 on the SE. face; and raise a mound of stone 2 ft. base, 1-1/2 ft. high, SE. of cor., from which:
 A 7 in. mesquit, blazed and scribed
 5 H E S 312 + B T, bears S. 87° 35' E.,
 101 lks.
 A 5 in. mesquit, blazed and scribed
 5 H E S 312 + B T, bears S. 31° 25' E.,
 127 lks.

Thence N. 85° 01' E.
 Asc. 5 ft. over bottom in undergrowth.

1.85 Wire fence, bears NE. and SW.

49.83 Wire fence, bears N. and S.

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

AREA

Total Area - - - - - 159.87 acres

IMPROVEMENTS

A windmill, 40 ft. high, over a well 4 x 4 x 30 ft., the center of which bears N. 16° 02' E., 24.05 chs. from cor. No. 3.

Estimated Value ----- \$300.00

A frame dwelling, 24 x 18 ft., the long side extending E. and W. and the SW. cor. of which bears N. 23° 08' E., 23.95 chs. from cor. No. 3.

Estimated Value ----- \$350.00

A frame hay shed, 60 x 48 ft., the long side extending E. and W. and the SW. cor. of which bears N. 42° 15' E., 26.50 chs. from cor. No. 3.

Estimated Value ----- \$400.00

A frame chicken house, 14 x 12 ft., the long side

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extending E. and W. and the SW. cor. of which bears N. 44° 48' E., 25.20 chs. from cor. No. 3.

Estimated Value ----- \$50.00

A frame store house, 14 x 12 ft., the long side extending E. and W. and the SW. cor. of which bears N. 43° 28' E., 27.15 chs. from cor. No. 3 of this survey.

Estimated Value ----- \$100.00

A frame shop, 14 x 12 ft., the long side extending E. and W. and the SW. cor. of which bears N. 45° 45' E., 26.48 chs. from cor. No. 3.

Estimated Value ----- \$ 75.00

A well, 4 x 4 x 30 ft., and hand pump, the center of which bears N. 48° 00' E., 27.00 chs. from cor. No. 3.

Estimated Value ----- \$ 75.00

A frame dwelling 30 x 24 ft., the long side extending E. and W. and the SW. cor. of which bears N. 50° 00' E., 26.60 chs. from cor. No. 3.

Estimated Value ----- \$750.00

Approximately 2-1/2 miles of wire fencing.

Estimated Value ----- \$250.00

Approximately 40 acres of cultivated land.

30. DESCRIPTION.

This claim is situated on the E. side of the Verde River at an elevation of approximately 2600 ft. and is chiefly valuable for general farming and stock raising. There is no timber in this section. The undergrowth is mesquit.

Sufficient water for irrigation flows in the Verde River.

Water for domestic use is obtained from wells.

The soil is a deep sandy and clay loam and produces the ordinary crops of the temperate zone with irrigation. Good crops of small grains, corn and garden truck have

Chains been raised. This is not reported to be mineralized section and no townsites, coal, oil, or mining claims are known to have been located in this vicinity. Phoenix post office and railway station is 50 miles by wagon road in a southerly direction. There are no conflicts. The unlisted claim of Henry Walpert, Application No. 565, upon which special instructions H. E. S. 316 have issued as a basis for listing and patent, adjoins this survey on the West. Corners 5 and 4 of this survey will be adopted as corners 1 and 2 respectively of H. E. S. 316.

TRAVERSE

Cor.	Course	Dist.	N	S	E	W
1-2	S. 8° 03' E.	25.01		24.76	3.50	
2-3	S. 80° 58' W.	33.30	5.23			32.89
3-4	S. 87° 49' W.	26.96	1.03			26.94
4-5	N. 9° 41' W.	26.15	25.78			4.40
5-1	N. 85° 01' E.	60.93	5.29	60.70		
		172.35	31.07	31.02	64.20	64.23
			31.02			64.20

Error in Lat. and Dep. .05 .03

Closing error 1:2956.

Survey completed January 29, 1915.

Walter G. Trusley
 Surveyor - Forest Service.

APPROVAL

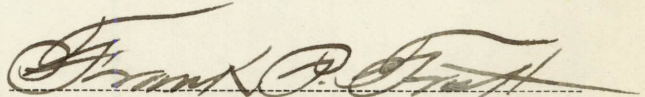
Office of the United States Surveyor General,

Phoenix, Arizona, May 4 , 1917.

The foregoing field notes of Homestead Entry Survey No.

312

executed by Walter G. Turley, Surveyor-Forest Service [Forest Service Title.]
under his special instructions, dated October 26 , 1914, 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.