

U. S. DEPARTMENT OF AGRICULTURE
FOREST SERVICE

FIELD NOTES

FEB 3 1916

MAR 14 1918

OF

HOMESTEAD ENTRY SURVEY NO. 346

SITUATED IN THE **PRESCOTT** NATIONAL FOREST

ADMINISTRATIVE DISTRICT NO. 3

In Section 1 , unsurveyed, Township 14 N., Range 5 W.

In Section 12 , unsurveyed, Township 14 N., Range 5 W.

of the

Gila and Salt River Base and Meridian.

State of

ARIZONA

Applicant for listing **Arthur C. Young,**

Residence **Skull Valley, Arizona.**

Application No. **216** , dated **April 17** , 19 **14**

List No. **3-3382** , dated **October 30** , 19 **14**

Applicant for survey **Arthur C. Young,**

Residence **Skull Valley, Arizona.**

H. E. No. **027023** , dated **April 6** , 19 **15**

Office Land District **Phoenix, Arizona.**

Survey executed by **Charles D. Hodson, Surveyor - Draftsman**
[Forest Service Title.]

Under special instructions dated **April 20** , 19 **15**

Survey commenced **June 23** , 19 **15**

Survey completed **June 23** , 19 **15**

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



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OATH OF ASSISTANTS

We hereby certify that we assisted **Charles D. Hodson,**
Surveyor - Draftsman in surveying all those
[Forest Service Title.]

parts or portions of Homestead Entry Survey No. **346**, 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.

C. H. Baechly, Chairman
D. E. Maister, Chairman

Subscribed and sworn to before me this **1st** day of
October, 19 **15**.

Charles D. Hodson

Surveyor - Draftsman

OATH OF SURVEYOR

I, **Charles D. Hodson,** **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
April 20, 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. **3-3382**, dated **October 30**, 19 **14**, for
Patent, under the Act of **June 11**, 19 **06**,
the same to be known as Homestead Entry Survey No. **346**,
situated within the **Prescott** National Forest, in
unsurveyed Section 1, Township **14 N.**, Range **5 W.**, and
unsurveyed Section 12, Township **14 N.**, Range **5 W.**,

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.

Charles D. Hodson

Surveyor - Draftsman
[Forest Service Title.]

Subscribed and sworn to before me this *eight* day of
October, 19 **15**.

Usee C. Myers
Notary Public



8-2349

PRESCOTT NATIONAL FOREST

STATE OF ARIZONA

Chains Applicant for listing, Arthur C. Young; Application No. 216, dated April 17, 1914; List No. 3-3382, dated October 30, 1914; H. E. 027023, made in the Phoenix Land Office on April 6, 1915 by Arthur C. Young.

Surveyed under special instructions from the Surveyor General for Arizona, dated April 20, 1915, and designated as Homestead Entry Survey No. 346.

Situated in what will probably be, when surveyed, Secs. 1 and 12, T. 14 N., R. 5 W., Gila and Salt River Base and Meridian, Prescott National Forest, Arizona.

Surveyed under the Acts of June 11, 1906 and June 30, 1914.

Survey commenced June 23, 1915 and executed with a Buff and Buff transit No. 9700-6.

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

All measurements were made directly on the slope with a 500 link steel tape. The slope angles were determined with a clinometer. The horizontal distances only appear in these notes.

June 23, 1915.

At 8h. 15m. 15s. a.m., 1.mt., I observe the altitude of the sun for azimuth at cor. H-2 of the list survey and what will be cor. No. 1 of this survey. The reading on the reference object is set at zero and the sun was observed in the lower left and upper right quadrants of the field. My watch is set for local mean time. Latitude $34^{\circ} 35' 05''$ N., Longitude $112^{\circ} 43' 55''$ W., obtained from the special instructions from the Surveyor General, and later verified.

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PRESCOTT NATIONAL FOREST

STATE OF ARIZONA

Chains	Telescope	Horizontal Angle	Vertical Angle
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	Direct	86° 43'	39° 32' 30"
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	Reverse	86° 12'	39° 13' 00"
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Bearing of object is N. 0° 07' 40" E.

At 8h. 16m. 59s. am., l.m.t., I again observe the altitude of the sun for azimuth at cor. No. 1. The reading on the reference object is set at zero and the sun was observed in the lower left and upper right quadrants of the field.

Telescope	Horizontal Angle	Vertical Angle
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Direct	86° 57' 30"	39° 55' 30"
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Reverse	86° 25' 00"	39° 36' 30"
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Bearing of reference object is N. 0° 08' 51" E.

The mean of these is N. 0° 09' 15" E., and from the corresponding meridian all the courses of this survey are deflected.

Beginning at cor. No. 1.

Identical with cor. H-2 of the list survey, a granite stone 10 x 6 x 15 ins. above ground, marked and witnessed as described by the Forest Service. I destroy all trace of this list cor. and at this point I set a granite stone 26 x 10 x 4 ins., 16 ins. in the ground, over a small stone marked with a cross. I chisel a cross at the point, 1 - H E S 346 on the West face; and raise a mound of stone 2 ft. base, 1-1/2 ft. high, West of cor., whence:

A juniper, 6 ins. dia., blazed and scribed
 1 H E S 346 + B T, bears S. 9° 00' E.,
 3.83 lks. dist.

PRESCOTT NATIONAL FOREST

STATE OF ARIZONA

Chains An oak, 5 ins. dia., blazed and scribed
 1.15 1.15 H E S 346 + B T, bears N. 1° 20' E.,
 40 lks. dist.

The cor. to secs. 6 and 7, T. 14 N., R. 4 W.,
 an iron post, 3 ins. dia. with brass cap,
 marked T 14 N on N. half, R 4 W S 6 in NE.
 quadrant, and S 7 in SE. quadrant, with mound
 of stone 3 ft. base, 2 ft. high, W. of cor.,
 bears N. 70° 50' E., 26.15 chs. dist., by direct
 measurement.

Note: The original cor. to secs. 1, 6, 7 and 12, a
 granite stone 24 x 18 x 12 ins., properly marked for
 cor. to these sections, was found in the mound West
 of the present corner.

Lat. 34° 35' 05" N., Long. 112° 43' 55" W., obtained
 from the Surveyor General's special instructions and
 later verified.

Mag. decl. at 9 a.m., 15° 08' E. Mean mag. decl. 15°
 05'.1 E.

Thence S. 21° 16' W.
 Desc. 25 ft. over brushy ridge, slopes S.

8.15 Road, bears NW. and SE.

11.15 Creek, 50 lks. wide, banks 2 ft. high, course ESE.

11.65 Foot of hill, bears ESE. and WNW. Asc. 30 ft.

13.32 To cor. No. 2.

Identical with cor. H-3 of the list survey, a granite
 stone 10 x 6 x 10 ins. above ground, marked and wit-
 nessed as described by the Forest Service. I destroy
 all trace of this list cor. and at this point I set
 a schist stone 28 x 10 x 8 ins., 18 ins. in the ground,
 over a small stone marked with a cross. I chisel a
 cross at the point, 2 - H E S 346 on the NNW. face;
 and raise a mound of stone 2 ft. base, 1-1/2 ft. high,
 NNW. of cor., whence:

Chains

A juniper, 14 ins. dia., blazed and scribed
2 H E S 346 + B T, bears N. 12° 00' W.,
100 lks. dist.

A juniper, 16 ins. dia., blazed and scribed
2 H E S 346 + B T, bears N. 54° 15' W.,
125 lks. dist.

Thence N. 59° 45' W.

Over rolling NE. slope, interspersed with numerous
small washes.

48.90 Enter level land.

54.10 To cor. No. 3.

Identical with cor. H-4 of the list survey, a granite
stone 10 x 4 x 10 ins. above ground, marked and wit-
nessed as described by the Forest Service. I destroy
all trace of this list cor. and at this point I set a
granite stone 24 x 10 x 4 ins., 14 ins. in the ground,
over a small stone marked with a cross. I chisel a
cross at the point, 3 - H E S 346 on the E. face; and
raise a mound of stone 2 ft. base; 1-1/2 ft. high, E.
of cor., whence:

A juniper, 12 ins. dia., blazed and scribed
3 H E S 346 + B T, bears S. 37° 10' W.,
124 lks. dist.

An oak, 8 ins. dia., blazed and scribed
3 H E S 346 + B T, bears N. 52° 45' W.,
140 lks. dist.

Thence N. 0° 32' W.

Desc. 10 ft. over flat bottom land.

1.00 Fence cor., fences bear NNE. and SE.

4.70 Road, bears NE. and SW.

5.60 Creek, 30 lks. wide, banks 1 ft. high, course E.

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PRESCOTT NATIONAL FOREST

STATE OF ARIZONA

Chains 14.87 Asc. 25 ft. over rocky S. slope.
 To cor. No. 4. Identical with cor. H-1 of the list survey, a granite boulder 4 x 6 x 8 ft. above ground on the SE. side, marked and witnessed as described by the Forest Service. I destroy all trace of this list cor. and on same boulder mark a cross at the point, 4-H E S 346 on top, facing SE., and raise a mound of stone 4 ft. base, 3 ft. high, NW. of cor., whence:

A juniper 24 ins. dia., blazed and scribed

4 H E S 346 + B T, bears N. 88° 20' E.,

82 lks. dist.

A juniper 20 ins. dia., blazed and scribed

4 H E S 346 + B T, bears S. 14° 20' E.,

160 lks. dist.

Note: It was impracticable to place mound inside claim.

Thence S. 60° 10' E.

Desc. 15 ft. over rolling SW. slope.

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

AREA

Total Area ----- 73.80 acres

IMPROVEMENTS

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

A frame house 42 x 24 ft., the long side of which bears E. and W. and the SE. cor. of which bears from cor. No. 1 N. 72° 05' W., 16.60 chs. dist.

Value ----- \$350.00

A corrugated iron barn, 24 x 24 ft., the long side of

Chains which bears E. and W. and the SE. cor. of which bears
 from cor. No. 1 N. 73° 48' W., 14.28 chs. dist. 78.41
 Value ----- \$175.00

A timbered well, 4 ft. dia., 30 ft. deep, the center of
 which bears from cor. No. 1 N. 75° 06' W., 17.80 chs.
 dist. Value ----- \$75.00

Approximately 1-1/2 miles of wire fence. Value ----- \$150.00

DESCRIPTION

This claim is located in Ferguson's valley, a tributary
 to Tonto valley. The creek which traverses the claim
 has no name and carries water only in the rainy seasons.
 The bottom soil is a rich black loam and will produce
 good crops of corn and grain hay. The hillsides,
 which comprise about one half of this area, are rocky
 and covered with scrub oak which has no commercial
 value.

Water for domestic and stock purposes is obtained from
 the well near the house.

I saw no indication of mineral on this claim.

CONFLICTS AND ADJOINING CLAIMS.

There are neither conflicts nor adjoining claims.
 Skull Valley, the nearest post office and railroad
 point, is 8 miles by fair wagon road in a South-
 easterly direction.

PRESCOTT NATIONAL FOREST

STATE OF ARIZONA

Chains

TRAVERSE

Course	Dist.	N	S	E	W
S. 21° 16' W.	13.32		12.41 ✓		4.83 ✓
N. 59° 45' W.	54.10	27.25 ✓			46.73 ✓
N. 0° 32' W.	14.87	14.87 ✓			0.14 ✓
S. 60° 10' E.	59.61		29.65 ✓	51.71 ✓	
	141.90	42.12	42.06	51.71	51.70
		<u>42.06</u>		<u>51.70</u>	

Error in Lat. and Dep. .06 .01

Closing error 1:2333. ✓

Survey completed June 23, 1915.

Charles D. Hobson

Surveyor - Draftsman

Chains

Course	Dist.	N	S	E	W
S. 21° 18' W.	13.32		12.41		4.83
N. 32° 45' W.	24.10	23.33			4.77
N. 0° 32' W.	14.87	14.87			0.14
S. 60° 10' E.	22.61		22.61		
<hr/>					
	141.90	42.13	42.08	21.71	21.70
		<u>30.34</u>		<u>21.70</u>	

Survey completed June 23, 1912.
Closing error 1:2332.
Error in lat. and dep. .06

[Signature]
Surveyor - Draftsman

PRESCOTT NATIONAL FOREST

STATE OF ARIZONA

Chains

Computation of Direct Solar Observation.

June 23, 1915. H. E. S. No. 346. Arthur C. Young.

Telescope	l.m.t.	Horizontal Angle	Vertical Angle
Direct	8h.14m.46s.	86° 43' 00"	39° 32' 30"
Reverse	8h.15m.44s.	86° 12' 00"	39° 13' 00"
Mean	8h.15m.15s.	86° 27' 30"	39° 22' 45"
		Ref.	1' 00"
		Alt.	39° 21' 45"

Lat. 34° 35' 05" N., Long. 112° 43' 55" W. = 7h. 30m. 56s.

Elev. 5,300 ft.

12h. - 7h. 30m. 56s. = 4h. 29m. 04s.

8h. 15m. 15s. - 4h. 29m. 04s. = 3h. 46m. 11s. = 3.77h.

1".01 x 3.77 = 4".

23° 26' 55.1" - 0° 00' 04" = 23° 26' 51".1, decl.

Log. sin.	23° 26' 51"	=	9.599783
Log. cos.	34° 35' 05"	=	9.915552
Log. cos.	39° 21' 45"	=	9.888263
			<u>9.805815</u>
Log.		=	9.795968 - .62512
Log. tan.	34° 35' 05"	=	9.838510
Log. tan.	39° 21' 45"	=	9.913980
Log.		=	9.752490 - .56557
		Cos. A. =	<u>.05955</u>

Azimuth of sun, N. 86° 35' 10" E.
86° 27' 30"

Bearing of reference object, N. 0° 07' 40" E.

Telescope	l.m.t.	Horizontal Angle	Vertical Angle
Direct	8h.16m.35s.	86° 57' 30"	39° 55' 30"
Reverse	8h.17m.22s.	86° 25' 00"	39° 36' 30"
Mean	8h.16m.59s.	86° 41' 15"	39° 46' 00"
		Ref.	1' 00"
		Alt.	39° 45' 00"

Log. sin.	23° 26' 51"	=	9.599783
Log. cos.	34° 35' 05"	=	9.915552
Log. cos.	39° 45' 00"	=	9.885837
			<u>9.801389</u>
Log.		=	9.798394 - .62863
Log. tan.	34° 35' 05"	=	9.838510
Log. tan.	39° 45' 00"	=	9.919962
Log.		=	9.758472 - .57342
		Cos. A. =	<u>.05521</u>

Azimuth of sun, N. 86° 50' 06" E.
86° 41' 15"

Bearing of Reference Object, N. 0° 08' 51" E.

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.

8-2349 **TABLING AND CALCULATIONS OF HOMESTEAD ENTRY SURVEY NO. 346, STATE OF Arizona - Prescott.**

CORNERS.	BEARING.	DISTANCE.	LATITUDES.		DEPARTURES.		DOUBLE M. D.		N. AREAS.	S. AREAS.
			NORTH.	SOUTH.	EAST.	WEST.				
1-2	S. 21° 16' W.	13.32		12 41		4 83		98 57		1223 25 ✓
2-3	N. 59° 45' W.	54.10	27 25			46 73		47 01	1279 61 ✓	
3-4	N. 0° 32' W.	14.87	14 87			0 14		0 14	2 08 ✓	
4-5	S. 60° 10' E.	59.61		29.65	51 71			51 70		1534 46 ✓
		141.90	42 12	42 06	51 71	51 70			1281 69	2757 71
			42 09	42 09	51 70	51 70			1281 69	1281 69
									Area =	1476 02
	Closing error 1:2333.								Area =	73 80 acres

1/5
EMH

APPROVAL

Office of the United States Surveyor General,

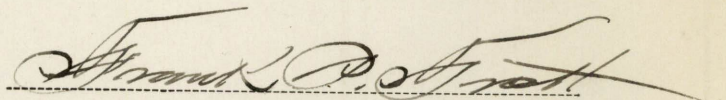
Phoenix, Arizona, April 30 , 1918.

The foregoing field notes of Homestead Entry Survey No.

~~345~~

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executed by **Charles D. Hodson, Surveyor-Draftsman**
[Forest Service Title.]
under his special instructions, dated **April 20** , 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.