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ORIGINAL

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Form 85  
Sheet No. 1  
(Revised July 1, 1914.)

U. S. DEPARTMENT OF AGRICULTURE  
FOREST SERVICE

FIELD NOTES

OF

HOMESTEAD ENTRY SURVEY NO. 576

SITUATED IN THE TONTO NATIONAL FOREST

ADMINISTRATIVE DISTRICT NO. 3

In Section 81, unsurveyed, Township 11 N., Range 10 E.

DEC-3-1919  
MAY-7-1920

of the

GILA AND SALT RIVER BASE & Meridian.

State of

ARIZONA

Applicant for listing Geo. C. Baecht, ✓  
 Residence Payson, Arizona.  
 Application No. 606, dated November 29, 19 15 ✓  
 List No. 3-3823, dated October 23, 19 16 ✓

Applicant for survey Geo. C. Baecht, ✓  
 Residence Payson, Arizona.  
 H. E. No. 033678 ✓, dated July 24, 19 17 ✓  
 Land Office Phoenix, Arizona. ✓

Survey executed by Frank D. Yost, Surveyor - Forest Service, ✓  
 Under special instructions dated May 23, 19 18 ✓  
 Survey commenced April 26, 19 19 ✓  
 Survey completed April 27, 19 19 ✓  
 Under Acts of June 11, 1906, and October 1, 1918. ✓



OATH OF ASSISTANTS

We hereby certify that we assisted  
Surveyor - Forest Service,  
[Forest Service Title.]

Frank D. Yost,  
in surveying all those

parts or portions of Homestead Entry Survey No. 576, 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 established, according to the instructions furnished by the United States Surveyor General for ARIZONA.

Note: It would have been very expensive and inconvenient to appear before an officer to administer oaths to Assistants; hence, they were taken by the Surveyor.

*H. E. Brandenburg*  
Chainman

*H. H. Longfellow*  
Chainman

Subscribed and sworn to before me this sixth day of August, 1919.

*Frank D. Yost*  
Surveyor - Forest Service.

OATH OF SURVEYOR

I, Frank D. Yost, Surveyor - Forest Service,  
[Forest Service Title.]

do solemnly swear that, in strict conformity with the special instructions of the United States Surveyor General for ARIZONA, dated May 23, 1918, 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 Patent, No. 3-3823, dated October 23, 1916, for the same to be known as Homestead Entry Survey No. 576, situated within the TONTO National Forest, in un surveyed Section 31, Township 11 N., Range 10 E., and -- surveyed Section --, Township ---, Range ---,

of the GILA AND SALT RIVER BASE & 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.

*Frank D. Yost*  
Surveyor - Forest Service,  
[Forest Service Title.]

Subscribed and sworn to before me this fifth day of November, 1919.

*Evelyn G. Myers*  
Notary Public.



8-2349

My commission expires March 17, 1921.

TONTO NATIONAL FOREST

STATE OF ARIZONA

Chains

Applicant for listing, Geo. C. Baecht; Application No. 606, dated Nov. 29, 1915; List No. 3-3823, dated October 23, 1916; H. E. 033678 made in the Phoenix Land Office on July 24, 1917, by Geo. C. Baecht. Surveyed under special instructions from the Surveyor General for Arizona, dated May 23, 1918, and designated as Homestead Entry Survey No. 576.

Situated in what will probably be when surveyed Sec. 31, T. 11 N., R. 10 E., Gila and Salt River Base and Meridian, Tonto National Forest, Arizona.

Surveyed under the Acts of June 11, 1906 and October 1, 1918.

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Survey commenced April 26, 1919, and executed with a Buff and Buff transit No. 10019, equipped with Smith solar attachment.

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

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

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April 26, 1919.

At the cor. to Secs. 5, 6, 31 and 32, Ts. 10 and 11 N., R. 10 E., hereinafter described, I observe the altitude of the sun for azimuth. The reading of the reference object is set at zero and the sun was observed in all four quadrants of the field. My watch is set for local mean time.

Lat. 34° 14' 47" N., Long. 111° 21' 35" W., from Special Instructions from the Surveyor General and later verified.

Chains Approximate elevation 6100 ft.

Telescope	Pos. sun	l.m.t. a.m.	Horizontal Angle	Vertical Angle
Direct	+°	7h 49m 15s.	35° 09' 30"	30° 48' 30"
Reversed	+	7h 51m 05s	35° 28' 00"	30° 42' 30"
Direct	+	7h 49m 45s	35° 42' 00"	30° 55' 30"
Reversed	+	7h 50m 30s	34° 55' 30"	30° 35' 00"

Bearing of Reference mark is S. 50° 02' 44" E.

April 27, 1919.

At the same station I again observe the altitude of the sun for azimuth. The reading on the reference object is set at zero and the sun was observed in the upper right and lower left quadrants of the field.

Telescope	Pos. sun	l.m.t. a.m.	Horizontal Angle	Vertical Angle
Direct	+°	8h 37m 15s	27° 42' 00"	40° 44' 00"
Reversed	+	8h 39m 05s	27° 31' 30"	41° 12' 30"

Bearing of reference mark is S. 50° 04' 31" E.

The two obsns. give a mean bearing of reference mark as S. 50° 03' 38" E. I accept bearing of reference mark as S. 50° 04' E. and to the corresponding meridian all the courses of this survey are referred by sustained angulation.

April 27, 1919.

RETRACEMENT

April 26, 1919.

Beginning at the cor. to Secs. 5, 6, 31 and 32, Ts. 10 and 11 N., R. 10 E., a sandstone 12 x 8 x 5 ins. above ground, firmly set, marked and witnessed as described

by the Surveyor General.

Thence West,

Retracing line bet. Secs. 6 and 31, E/2

TONTON NATIONAL FOREST

STATE OF ARIZONA

40.13 Chains Intersect 1/4 cor. bet. secs. 6 and 31, which is a +  
chiseled on top of a stone in place showing 15 x 10 x 3  
ft. above ground, marked and witnessed as described by  
the Surveyor General.  
Thence East,

on a true line, bet. Secs. 6 and 31, E/2  
25.08 Set temp. point for cor. No. 2 of this survey.

40.13 To Cor. Secs. 5, 6, 31 and 32, heretofore described.

BOUNDARIES OF CLAIM  
April 26, 1919.

Beginning at Cor. No. 1,  
Identical with cor. to Secs. 5, 6, 31 and 32, Ts. 10  
and 11 N., R. 10 E., heretofore described, I chisel  
same stone + on top for Cor. No. 1 of this survey, and  
alongside to NW. set a sandstone 18 x 14 x 3 ins. 10 ins.  
in the ground, marked 1 H E S 576 on NW. face; raise  
a mound of stone 3 ft. base, 2 ft. high, N. of cor.,  
whence:

A cedar 12 ins. dia., brs. S.57°20'E., 342 lks. dist.

A cedar 12 ins. dia., brs. S.30°45'W., 403 lks. dist.

Each blazed and scribed 1 H E S 576 + B T

Cor. wire fence, from which fences extend N. and  
W., bears N. 5° 00' W., 5 lks. dist.

Cor. H-1 of the list survey, which is a sandstone  
6 x 6 x 4 ins. above ground, marked and witness-  
ed as described by the Forest Service, bears  
North, 1 lk. dist. I destroy all trace of this  
list cor.

Lat. 34° 14' 47" N., Long. 111° 21' 35" W., from  
special instructions from the Surveyor General and  
later verified.

Mag. decl. at 8 a.m. is 14° 30' E., Mean magnetic  
decl. , 14° 27' E.

Thence West,

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TONTON NATIONAL FOREST

STATE OF ARIZONA

Chains

Along line bet. secs. 6 and 31, Ts. 10 and 11 N., R. 10 E. Ascend 20 ft. over NE. slope, thru scattering cedar. Wire fence along line inside claim.

15.05

To Cor. No. 2, and Closing Cor. on line bet. secs. 6 and 31.

Deposit a sandstone 3 x 3 x 1 ins. marked with a + 14 ins. in the ground, over which set a sandstone 24 x 7 x 6 ins. chiseled + for the point, 2 H E S 576 on NE. face; and C C on N. face; raise a mound of stone 3 ft. base, 2 ft. high N. of cor., whence:

A cedar 20 ins. dia., brs. S. 9° 05' W., 680 lks. dist., blazed and scribed

C C 2 H E S 576 + B T

A+ on an embedded red sandstone showing 6 x 4 x 1 ft. above ground, chiseled

C C 2 H E S 576 + B R on top, bears

S. 70° 08' E., 119 lks. dist.

Cor. to Secs. 5, 6, 31 and 32, heretofore

described, bears East, 15.05 chs. dist.

1/4 cor. bet. Secs. 6 and 31, heretofore

described bears West, 25.08 chs. dist.

Cor. H-6 of the list survey, which is a sand-

stone 8 x 2 x 6 ins. above ground, marked

and witnessed as described by the Forest

Service, bears N. 11° 00' W., 5 lks. dist.

I destroy all trace of this list cor.

Fence cor. bears N. 80° W., 11 lks.; fences

bear East and North.

Thence North,

Along NE. slope, thru scattering cedar and pinon,

wire fence along line outside claim.

.02

Wire fence, bears E. and W.

## TONTON NATIONAL FOREST

STATE OF ARIZONA

Chains  
15.00

To Cor. No. 3,

Deposit a sandstone 4 x 3 x 3 ins. marked with a + 24 ins. in the ground, over which set an iron post 2 ins. dia., 36 ins. long, with brass cap marked 1919 on S. rim and 3 H E S 576 in portion of circle facing claim; raise a mound of stone 3 ft. base, 2 ft. high NE. of cor., whence:

A pinon 8 ins. dia., brs. S.  $14^{\circ} 55'$  E.,  
108 lks. dist.

A juniper 24 ins. dia., brs. N.  $85^{\circ} 15'$  W.,  
315 lks. dist.

Each blazed and scribed 3 H E S 576 + B. T.

Cor. H-5 of the list survey, which is a sandstone 6 x 12 x 12 ins. above ground, marked and witnessed as described by the Forest Service, bears N.  $11^{\circ} 20'$  E., 20 lks. dist. I destroy all trace of this list cor.

Thence West,

Ascend 30 ft. over gradual North slope, thru oak, cedar and pinon.

.20 Fence bears N. and S. Cor. of fence is 12 lks. N. from which fences bear S. and W.

16.41 Cor. fence brs. N. 15 lks. Fences bear N. and E.

17.82 Top of ascent. Descend 20 ft.

30.00 To Cor. No. 4.

Deposit a sandstone 4 x 4 x 4 ins. marked with a + 14 ins. in the ground, over which set a red sandstone 24 x 8 x 8 ins. chiseled + for the point and 4 H E S 576 on NE. face; raise a mound of stone 3 ft. base, 2 ft. high, NE. of cor., whence:

A juniper 12 ins. dia., brs. S.  $87^{\circ} 10'$  W.,  
161 lks. dist.

A cedar 12 ins. dia., brs. N.  $4^{\circ} 16'$  E.,  
141 lks. dist.



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Chains

Each blazed and scribed 4 H E S 576 + B T

Cor. H-4 of the list survey, which is a

✓ sandstone 12 x 8 x 4 ins. above ground, marked and witnessed as described by the Forest Service, bears N. 26° 55' E., 38 lks. dist. I destroy all trace of this list cor.

Thence North,

Desc. 25 ft. over gentle N. slope,

9.01 Wash, 27 lks. wide, 3 ft. deep, N. 70° E.

Thence over open bottom land.

30.00 To Cor. No. 5.

Deposit a sandstone 8 x 6 x 5 ins. marked with a + 25 ins. in the ground, over which set a sandstone 30 x 12 x 8 ins. chiseled + for the point and 5 H E S 576 on SE. face; raise a mound of stone 3 ft. base, 2 ft. high, SE. of cor., whence:

A cedar 12 ins. dia., brs. N. 18° 12' W., 650 lks. dist.

A juniper 12 ins. dia., brs. N. 67° 08' E., 868 lks. dist.

Each blazed and scribed 5 H E S 576 + B T Cor. H-3 of the list survey, which is a sand-

stone 18 x 10 x 3 ins. above ground, marked

and witnessed as described by the Forest Service, brs. N. 10° 51' E., 35 lks. dist. I

✓ destroy all trace of this list cor.

Thence East,

Over open bottom land,

3.97 Wash, 59 lks. wide, 4 ft. deep (dry) course SE. Ascend

50 ft. over open SW. slope.

12.42 Top of ascent on ridge, bears NW, and SE. Desc. NE. slope,

## TONTON NATIONAL FOREST

STATE OF ARIZONA

Chains 45 ft.

21.39 Wash, 38 lks. wide, 3 ft. deep (dry), course S. 30° E.  
Ascend 30 ft. over SW. slope, thru scattering juniper.

26.93 Top of ascent, thence over level mesa thru scattering juniper.

45.05 To Cor. No. 6,  
Deposit a sandstone 3 x 3 x 2 ins. marked with a + 24 ins. in the ground, over which set an iron post 2 ins. dia., 36 ins. long, with brass cap marked 1919 on S. rim, and 6 H E S. 576 in SW. quadrant; raise a mound of stone 3 ft. base, 2 ft. high, SW. of cor., whence:

A cedar 10 ins. dia., brs. N. 78° 34' E.,  
291 lks. dist.

A juniper 18 ins. dia., brs. S. 29° 25' E.,  
196 lks. dist.

Each blazed and scribed 6 H E S 576 + B T  
Cor. H-2 of the list survey, which is a sandstone 12 x 6 x 4 ins. above ground, marked and witnessed as described by the Forest Service, bears N. 17° 01' E., 20 lks. dist.  
I destroy all trace of this list cor.

---

Thence S. 0° 04' W.,  
Over level mesa thru scattering juniper and pinon.

12.11 Edge of mesa, descent 30 ft. over S. slope.

15.95 Cor. fence, fences bear West and S. along line inside of claim, over level bottom land.

26.16 Wash, 50 lks. wide, 4 ft. deep, (dry) course E. Ascend gradual N. slope, 20 ft.

45.02 To Cor. No. 1, the place of beginning.

April 26, 1917.

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Chains

AREA

Total Area - - - - - 157.81 Acres.

IMPROVEMENTS

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

A frame house 20 x 20 ft., the sides extending E. and W. and the SW. cor. of which bears N. 78° 51' E., 7.87 chs. dist. from Cor.

No. 3. Value - - - - - \$ 300.00

A frame shed 14 x 25 ft., the long sides extending N. and S., the SW. cor. of which bears N. 66° 10' E., 10.86 chs. dist. from Cor. No. 3.

Value - - - - - \$ 150.00

Approximately 2 miles of wire fence.

Value - - - - - \$ 250.00

DESCRIPTION

The claim consists mainly of open bottom land, which lies at the junction of several wide shallow draws, and includes a portion of the slopes of the surrounding hills. The soil on the bottom land is a reddish sandy loam of good depth, and very fertile: The soil on the slopes is somewhat rocky.

Approximately 65 percent of the area is suitable for agricultural purposes; of which about 50 acres were under cultivation at the time of survey: Dry farming methods are depended upon to raise crops.

There is no water on the claim. Water for domestic use is hauled from Payson.

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STATE OF ARIZONA

Chains

There is no timber of commercial value on the claim.  
I saw no indications of mineral on the claim.

CONFLICTS AND ADJOINING CLAIMS

There are no conflicts or adjoining claims. H.E.S. 126 lies about 1/2 mile dist. in a southeasterly direction. Payson, Arizona, the nearest settlement and Postoffice is about 1-1/2 miles in a southeasterly direction.

TRAVERSES

Course	Dist.	N.	S.	E.	W.
West	✓ 15.05				15.05
North	✓ 15.00	15.00			
West	✓ 30.00				30.00
North	✓ 30.00	30.00			
East	✓ 45.05			45.05	
S. 0° 04' W.	✓ 45.02		45.02		.05
	180.12	45.00	45.02	45.05	45.10
			45.00		45.05
Error in Lat. and Dep.			.02		.05

Closing Error, 1:3345

Survey completed April 27, 1919.

*Frank D. Yost*  
Surveyor - Forest Service,



TONTO NATIONAL FOREST  
STATE OF ARIZONA

Chains April 26, 1919.

Direct Solar at Cor. secs. 5, 6, 31 and 32, Ts. 10 and 11  
N., R. 13 E.

Lat. 34° 14' 47" N., Long. 111° 21' 35" W., from Special  
instructions from Surveyor General and later verified.  
Elevation approximately 6100 feet.

Telescope	Pos. sun	l.m.t. a.m.	Horizontal Angle	Vertical Angle
Direct	+°	7h. 49m. 15s.	35° 09' 30"	30° 48' 30"
Reversed	o+	7h. 51m. 05s.	35° 28' 00"	30° 42' 30"
Direct	°+	7h. 49m. 45s.	35° 42' 00"	30° 55' 30"
Reversed	+o	7h. 50m. 30s.	34° 55' 30"	30° 35' 00"
Means		7h. 50m. 09s.	35° 18' 45"	30° 45' 22"
			Corr. for Refr.	1' 12"
				30° 44' 10"

Decl. 13° 18' 14" N.

$$\text{Cos. } Q. = \frac{\sin. 13^{\circ} 18' 14''}{\text{Cos. } 34^{\circ} 14' 47'' \times \text{Cos. } 30^{\circ} 44' 10''} -$$

$$\tan. 34^{\circ} 14' 47'' \times \tan. 30^{\circ} 44' 10''$$

$$\sin. 13^{\circ} 18' 14'' = 9.3619464$$

$$\cos. 34^{\circ} 14' 47'' = 9.9173087$$

$$\cos. 30^{\circ} 44' 10'' = 9.9342612$$

$$9.5103765 = \log. .32387$$

$$\tan. 34^{\circ} 14' 47'' = 9.8330090$$

$$\tan. 30^{\circ} 44' 10'' = 9.7742317$$

$$9.6072407 = \log. .40480$$

$$\text{Cos. } Q. .08093$$

$$Q. = 85^{\circ} 21' 29''$$

Bearing of Reference Mark S. 50° 02' 44" E.



TONTO NATIONAL FOREST

STATE OF ARIZONA.

Chains April 27, 1919.

Direct solar obsn. Cor. Secs. 5, 6, 31 and 32, Ts. 10 and 11 N., R. 13 E.

Lat.  $34^{\circ} 14' 47''$  N., Long.  $111^{\circ} 21' 35''$  W. from Special instructions from the Surveyor General and later verified. Elevation approximately 6100 ft.

Telescope	Pos.	l.m.t.	Horizontal Angle	Vertical Angle
Direct	+°	8h. 37m. 15s.	$27^{\circ} 42' 00''$	$40^{\circ} 44' 00''$
Reversed	o+	8h. 39m. 05s.	$27^{\circ} 31' 30''$	$41^{\circ} 12' 30''$
Means		8h. 38m. 10s.	$27^{\circ} 36' 45''$	$40^{\circ} 58' 15''$
			Corr. for refr.	<u>48''</u>
				$40^{\circ} 57' 27''$

Decl.  $13^{\circ} 38' 13''$  N.

$$\text{Cos. Q.} = \frac{\sin 13^{\circ} 38' 13''}{\text{Cos. } 34^{\circ} 14' 47'' \times \text{Cos. } 40^{\circ} 57' 27''} - \tan 34^{\circ} 14' 47'' \times \tan 40^{\circ} 57' 27''$$

$\sin. 13^{\circ} 38' 13'' = 9.3724864$

$\cos. 34^{\circ} 14' 47'' = 9.9173087$

$\cos. 40^{\circ} 57' 27'' = 9.8780597$

$9.5771180 = \log. .37767$

$\tan. 34^{\circ} 14' 47'' = 9.8330090$

$\tan. 40^{\circ} 57' 27'' = 9.9385124$

$9.7715214 = \log. .59091$

$\text{Cos. Q.} = .21324$

$\text{Q.} = 77^{\circ} 41' 16''$

Bearing of Reference Mark S.  $50^{\circ} 04' 31''$  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.

TABLING AND CALCULATIONS OF HOMESTEAD ENTRY SURVEY NO. 576, STATE OF ARIZONA

8-2349

CORNERS.	BEARING.	DISTANCE.	LATITUDES.		DEPARTURES.		DOUBLE M. D.	N. AREAS.		S. AREAS.	
			NORTH.	SOUTH.	EAST.	WEST.					
1 - 2	West	15.05				15 05	75 03				
2 - 3	North	15.00	15 00				59 98	899 70			
3 - 4	West	30.00				30 00	29 99				
4 - 5	North	30.00	30 00				00 00				
5 - 6	East	45.05			45 05		45 07				
6 - 1	S. 0° 04' W.	45.02		45 02			90 11			4055 85	
		180.12	45 00	45 02	45 05	45 10		899 70		4055 85	
			45 01	45 01	45 07	45 07				899 70	
	Error in Lat. and Dep.			02		05				20/3156 15	
	Closing 1:3345									157 81	Acres
											I. S.

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APPROVAL

Office of the United States Surveyor General,

Phoenix, Arizona, May 10, 1910

The foregoing field notes of Homestead Entry Survey No.

576

executed by *Frank D. Gost*, Surveyor  
[Forest Service Title]  
under his special instructions, dated *May 23*, 1918, having  
been critically examined, and the necessary corrections and explanations  
made, the said field notes, and the surveys they describe, are hereby  
approved.

*Frank P. Trott*  
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.