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U. S. DEPARTMENT OF AGRICULTURE FOREST SERVICE

FIELD NOTES

OF

HOMESTEAD ENTRY SURVEY NO. 575

SITUATED IN THE **TONTO** NATIONAL FOREST

ADMINISTRATIVE DISTRICT NO. 3.

In Section 13, unsurveyed, Township 11 N., Range 10 E. 106
In Section 18, unsurveyed, Township 11 N., Range 11 E. 118

DEC. 17. 1919
MAY 2. 1920

of the

GILA AND SALT RIVER BASE & Meridian.

State of

ARIZONA

Applicant for listing **Jefferson G. Powers,**
Residence **Payson, Arizona.**
Application No. **464**, dated **March 23**, 19 **14**
List No. **3-3501**, dated **February 5**, 19 **15**

Applicant for survey **Jefferson G. Powers,**
Residence **Payson, Arizona.**
H. E. No. **042697, dated Aug. 9, 1919, Orin D. Childers.**
030388, dated **May 22**, 19 **16** *Rel. 8-9-1919*
Land Office **at Phoenix, Arizona.**

Survey executed by **Frank D. Yost,** Surveyor - Forest Service,
Under special instructions dated **May 23**, 19 **18**
Survey commenced **April 19**, 19 **19**
Survey completed **April 21**, 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. 575, 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. Langfellow
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

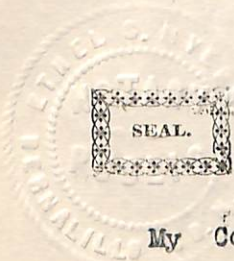
List Patent, No. 3-3501, dated February 5, 1915, for the same to be known as Homestead Entry Survey No. 575, situated within the TONTO National Forest, in un surveyed Section 13, Township 11 N., Range 10 E., and un surveyed Section 18, Township 11 N., Range 11 E.

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.

Echel G. Myers
Notary Public



My Commission expires March 17, 1921.

TONTO NATIONAL FOREST

STATE OF ARIZONA

Chains

Applicant for listing, Jefferson G. Powers; Application No. 464, dated March 23, 1914; List No. 3-3501, dated February 5, 1915; H. E. 030388 made in the Phoenix Land Office on May 22, 1916 by Jefferson G. Powers. Surveyed under Special Instructions from the Surveyor General for Arizona, dated May 23, 1918, and designated as Homestead Entry Survey No. 575.

Situated in what will probably be when surveyed, Secs. 13 and 18, T. 11 N., Rs. 10 and 11 E., Gila and Salt River Base and Meridian, Tonto National Forest, Arizona. Surveyed under the Acts of June 11, 1906 and October 1, 1918.

Survey commenced April 19, 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.

April 21, 1919.

At Cor. No. 1 of this survey, hereinafter described, I observe the altitude of the sun for azimuth. The reading on the reference mark is set at 180° and the sun was observed in all four quadrants of the field. My watch is set for local mean time. Lat. 34° 17' 45" N., Long. 111° 16' 20" W., from Special Instructions from the Surveyor General and later verified.

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Chains	Telescope	Pos. sun	l.m.t. a.m.	Horizontal Angle	Vertical Angle
	Direct	+°	8h 21m 00s	281° 08' 00"	35° 34' 00"
	Reversed	±	8h 23m 00s	280° 50' 30"	35° 28' 30"
	Direct	±	8h 21m 30s	280° 34' 00"	35° 40' 00"
	Reversed	+°	8h 22m 30s	281° 25' 00"	35° 22' 30"

Bearing of reference mark is N. 0° 14' 35" W.

At the same station I again observe the altitude of the sun for azimuth. The reading on the reference mark is set at 180° and the sun was observed in all four quadrants of the field.

Telescope	Pos. sun	l.m.t. a.m.	Horizontal Angle	Vertical Angle
Direct	+°	8h 25m 30s	281° 54' 30"	36° 31' 30"
Reversed	±	8h 27m 30s	281° 37' 30"	36° 25' 00"
Direct	±	8h 26m 10s	281° 21' 30"	36° 37' 30"
Reversed	+°	8h 27m 00s	282° 10' 30"	36° 17' 30"

Bearing of reference mark is N. 0° 13' 51" W.

The two obsns. give a mean bearing of reference mark as N. 0° 14' 13" W. I accept bearing of reference mark as N. 0° 14' W. and to the corresponding meridian all the courses of this survey were referred by sustained angulation.

RETRACEMENTS

April 21, 1919.

From the 1/4 sec. cor. bet. Secs. 13 and 18, T. 11 N., Rs. 10 and 11 E., which is a basalt stone 12 x 8 x 6 ins. above ground, firmly set, marked and witnessed as described by the Surveyor General.

Thence North,

Retracing line between Secs. 13 and 18, N/2.

40.12 Fall 4 lks. West of the corner of Secs. 7, 12, 13 and 18,

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Chains T. 11 N., Rs. 10 and 11 E., a slate stone 24 x 12 x 10 ins. above ground, marked and witnessed as described by the Surveyor General.

Thence S. 0° 03' W.,

On a true line bet. secs. 13 and 18, N/2.

20.06 Set temp. pt. for 1/16 sec. cor., which will also be Cor. No. 10 of this survey.

40.12 The 1/4 sec. cor. bet. secs. 13 and 18, heretofore described.

BOUNDARIES OF CLAIM

Beginning at Cor. No. 1.

Identical with the 1/4 sec. cor. bet. Secs. 13 and 18, heretofore described, which is also Cor. H-1 of the list survey, (cor. not marked for list survey). I

chisel 1/4 cor. + on top for Cor. No. 1 of this survey,

and chisel 1 H E S 575 on top near the North edge of

a flat malpais boulder in place showing 48 x 24 x 2

ins. above ground, 2 lks. South of cor.; raise a mound

of stone 2 ft. base, 1 ft. high, around cor. to pro-

tect it, and raise a mound of stone 3 ft. base, 2 ft.

high N. of cor., whence:

A juniper 10 ins. dia., brs. S. 57° 48' W.,

148 lks. dist.

A juniper 8 ins. dia., brs. S. 34° 35' W.,

78 lks. dist.

Each blazed and scribed 1 H E S 575 + B T

Lat. 34° 17' 45" N., Long. 111° 16' 20" W., from

Special Instructions of the Surveyor General and

later verified.

Magnetic declination at 8 a.m. is 14° 30' E.,

Mean Magnetic declination, 14° 27' E.

Thence West,

Chains Along rocky north slope, thru thick scrub oak and juniper.

20.00 To Cor. No. 2.

Deposit a malpais stone 5 x 3 x 2 ins. marked with a + 20 ins. in the ground, over which set a malpais stone 28 x 10 x 4 ins. chiseled + for the point and 2 H E S 575 on NW. face; raise a mound of stone 3 ft. base, 2 ft. high, NW. of cor., whence:

A cedar 25 ins. dia., brs. S. 26° 02' W.,
150 lks. dist.

An oak 20 ins. dia., brs. S. 72° 49' E.,
177 lks. dist.

Each blazed and scribed 2 H E S 575 + B T

Cor. H-12 of the list survey, which is a volcanic stone 14 x 8 x 4 ins. above ground, marked and witnessed as described by the Forest Service, bears S. 18° 21' W.,
34 lks. dist. I destroy all trace of this list cor.

Thence South,
Asc. 30 ft., over rocky N. slope, thru heavy scrub oak and juniper.

4.21 Top of ascent on small spur, bears West. Descend 40 ft. over rocky south slope, thru scrub oak and pinon.

10.00 To Cor. No. 3.

Deposit a sandstone 6 x 3 x 2 ins. marked with a + 22 ins. in the ground, over which set a grey basalt stone 30 x 6 x 6 ins. chiseled + for the point and 3 H E S 575 on NW. face; raise a mound of stone 3 ft. base, 2 ft. high, NW. of cor., whence:

A pinon 24 ins. dia., brs. N. 24° 20' W.,
261 lks. dist.

Cor. H-11 of the list survey, which is a granite

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Chains

stone 12 x 4 x 3 ins. above ground, marked
and witnessed as described by the Forest
Service, bears N. 37° 20' W., 38 lks. dist.
I destroy all trace of this list cor.

Thence West,

Descend 30 ft., over grassy SW. slope.

10.00

To Cor. No. 4.

Deposit a sandstone 6 x 3 x 2 ins. marked with a + 20
ins. in the ground, over which set a red sandstone
30 x 12 x 8 ins. chiseled + for the point and 4 H E S
575 on NW. face; raise a mound of stone 3 ft. base,
2 ft. high, NW. of cor., whence:

An oak 30 ins. dia., brs. N. 49° 50' E.,
250 lks. dist.

An oak 36 ins. dia., brs. N. 27° 01' W.,
260 lks. dist.

Each blazed and scribed 4 H E S 575 + B T

Cor. H-10 of the list survey, which is a

sandstone 15 x 8 x 5 ins. above ground,
marked and witnessed as described by the
Forest Service, bears N. 30° 30' W.; 39 lks.
dist. I destroy all trace of this list cor.

Thence South,

Across level grassy bottom land.

.97

Arroyo, 30 lks. wide, banks 3 ft. high, (dry) course NW.

Ascend 30 ft., over steep rocky NE. slope, thru heavy
brush.

2.02

Top of ascent, thence across a level grassy mesa, thru
scattering juniper.

10.00

To Cor. No. 5.

Deposit a sandstone 4 x 3 x 2 ins. marked with a + 18

Chains

ins. in the ground, over which set a grey basalt stone
24 x 14 x 3 ins. chiseled + for the point and 5 H E S
575 on NW. face; raise a mound of stone 3 ft. base,
2 ft. high, NW. of cor., whence:

A juniper 28 ins. dia., brs. S. $79^{\circ} 22'$ W.,

285 lks. dist.

A juniper 12 ins. dia., brs. N. $4^{\circ} 07'$ E.,

404 lks. dist.

Each blazed and scribed 5 H E S 575 + B T

Cor. H-9 of the list survey, which is a sand-

stone 14 x 8 x 5 ins. above ground, marked

and witnessed as described by the Forest

Service, bears S. $63^{\circ} 30'$ E., 18 lks. dist.

I destroy all trace of this list corner.

Thence West,

Across level mesa land, thru juniper and cedar.

19.85

To Cor. No. 6,

Deposit a sandstone 4 x 3 x 2 ins. marked with a + 20 ins.

in the ground, over which set a red sandstone 26 x 8 x

6 ins. chiseled + for the point and 6 H E S 575 on NE.

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

NE. of cor., whence:

A cedar 16 ins. dia., brs. N. $1^{\circ} 10'$ E.,

160 lks. dist.

A cedar 7 ins. dia., brs. S. $82^{\circ} 10'$ E.,

68 lks. dist.

Each blazed and scribed 6 H E S 575 + B T

Cor. H-8 of the list survey, which is a sand-

stone 10 x 6 x 4 ins. above ground, marked

and witnessed as described by the Forest

Service, brs. S. $73^{\circ} 30'$ W., 25 lks. dist.

I destroy all trace of this list cor.

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Chains ✓ Thence North,
 Over level grassy mesa, thru juniper and cedar.
 20.00 To Cor. No. 7,
 Deposit a sandstone 5 x 3 x 2 ins. marked with a + 22
 ins. in the ground, over which set a red sandstone 30
 x 12 x 8 ins. chiseled + for the point and 7 H E S 575
 on SE. face; raise a mound of stone 3 ft. base, 2 ft.
 high, SE. of cor., whence:
 A juniper 18 ins. dia., brs. S. 57° 35' W.,
 109 lks. dist.
 A juniper 24 ins. dia., brs. S. 0° 55' W.,
 55 lks. dist.
 Each blazed and scribed 7 H E S 575 + B T
 Cor. H-7 of the list survey, which is a sand-
 stone 14 x 7 x 6 ins. above ground, mkd.
 and witnessed as described by the Forest
 Service, bears S. 78° 38' W., 25 lks.
 dist. I destroy all trace of this list
 corner.

Thence East,
 Over level rocky mesa, thru scrub oak, juniper and
 pinon.
 6.21 Leave level mesa,
 Begin descent of 25 ft., along rocky north slope, thru
 heavy oak brush, juniper and pinon.
 17.91 Arroyo, banks 3 ft. high, 40 lks. wide, (dry), course NW.
 Thence over level grassy bottom land, thru oak brush,
 juniper and oak and pinon.
 19.85 To Cor. No. 8.
 Deposit a sandstone 3 x 3 x 2 ins. marked with a + 24
 ins. in the ground, over which set an iron post 36 ins.
 long, 2 ins. dia., with brass cap marked 1919 on S. rim.

Chains and 8 H E S 575 in portion of circle facing claim;
 ✓ raise a mound of stone 3 ft. base, 2 ft. high, SE. of
 cor., whence:
 An oak 30 ins. dia., brs. S. 45° 10' W.,
 65 lks. dist.
 A cedar 30 ins. dia., brs. N. 55° 07' W.,
 147 lks. dist.
 ✓ Each blazed and scribed 8 H E S 575 + B T
 ✓ Cor. H-6 of the list survey, which is a sand-
 stone 10 x 7 x 4 ins. above ground, marked
 ✓ and witnessed as described by the Forest
 Service, bears S. 81° 17' E., 13 lks. dist.
 ✓ I destroy all trace of this list corner.

✓ Thence North,
 Across level grassy bottom land.
 15.92 Wire fence; bears N. 80° W. and S. 80° E.
 Enter plowed land.
 18.81 Wire fence, bears N. 80° W. and S. 90° E.
 19.17 Arroyo, 65 lks. wide, banks 3 ft. high, (dry) course
 S. 85° W. Ascend 20 ft. over rocky south slope,
 thru heavy oak brush, juniper and pine.
 20.06 ✓ To Cor. No. 9.
 Deposit a limestone 6 x 4 x 2 ins. marked with a + 24
 ins. in the ground, over which set a limestone 34 x
 12 x 8 ins. chiseled + for the point and 9 H E S 575
 on SE. face; raise a mound of stone 3 ft. base, 2 ft.
 high, SE. of cor., whence:
 A cedar 16 ins. dia., brs. N. 25° 35' E.,
 47 lks. dist.
 An oak 6 ins. dia., brs. S. 82° 50' W.,
 28 lks. dist.
 ✓ Each blazed and scribed 9 H E S 575 + B T

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Chains

Cor. H-5 of the list survey, which is a
 sandstone 8 x 6 x 4 ins. above ground,
 marked and witnessed as described by
 the Forest Service, brs. N. 89° 12' E.,
 15 lks. dist. I destroy all trace of
 this list cor.

Thence N. 89° 54' E.

Along steep rocky south slope, thru heavy scrub oak,
 juniper, cedar and pinon.

19.30 Begin desc. of 20 ft., over rocky SE. slope, thru
 heavy scrub oak.

25.41 Arroyo, 20 lks. wide, banks 3 ft. high, (dry) course
 S. 30° W.

Bottom of desc. Ascend 35 ft. over rocky West slope,
 thru dense scrub oak.

27.50 Top of ascent.

Thence along rocky south slope, thru dense oak scrub,
 juniper, cedar and pinon.

30.00 To Cor. No. 10, and Closing Cor. on line bet. secs. 13 & 18.

Identical with temporary point for 1/16 sec. cor.
 Deposit a sandstone .5 x 4 x 2 ins. marked with a +,
 28 ins. in the ground, over which set an iron post
 36 ins. long, 2 ins. dia., with brass cap marked 1919
 on S. rim, 10 H E S 575 in S. half; S. 13 in the West
 half; S 18 in the East half; 1/16 in the East quadrant,
 and C C in the West quadrant; raise a mound of stone
 3 ft. base, 2 ft. high, W. of cor., whence:

A juniper 40 ins. dia., brs. N. 83° 47' E.,
 163 lks. dist.

An oak 12 ins. dia., brs. N. 17° 05' E.,

102 lks. dist.

Chains

Each blazed and scribed 10 H E S 575 C C S 18

1/16 + B T

No other witnesses available.

Cor. to Secs. 7, 12, 13 and 18, T. 11 N.,

Rs. 10 and 11 E., heretofore described

brs. N. 0° 03' E., 20.06 chs. dist.

1/4 cor. bet. Secs. 13 and 18, heretofore

described, brs. S. 0° 03' W., 20.06 chs.

dist. After careful search I was unable to find any trace of Cor. H/4 of the list survey.

Thence East,

Ascend 30 ft. over a rocky south slope, thru dense scrub oak, juniper, pinon and cedar.

25.00 To Cor. No. 11.

Point for cor. falls on a flat, white limestone outcrop showing 144 x 24 x 4 ins. above ground; I chisel + and 11 H E S 575 on top at SW. edge of the limestone outcrop for cor. No. 11 of this survey; raise a mound of stone 3 ft. base, 2 ft. high, SW. of cor., whence:

A cedar 30 ins. dia., brs. S. 87° 56' W.,

53 lks. dist.

A juniper 20 ins. dia., brs. N. 17° 03' W.,

85 lks. dist.

Each blazed and scribed 11 H E S 575 + B T

Cor. H-3 of the list survey, which is a lime-

stone 16 x 8 x 4 ins. above ground, marked

and witnessed as described by the Forest

Service, brs. S. 11° 05' E., 12 lks. dist.

I destroy all trace of this list cor.

Thence South,

Descend 30 ft. over rocky SW. slope, thru dense scrub oak.

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Chains	
9.80	Bottom of descent. Leave brush and enter open grassy level bottom land.
12.21	Arroyo, 25 lks. wide, banks 2 ft. high, (dry) course West.
16.91	Leave open flat, enter heavy scrub oak. Ascend 25 ft. over a rocky NW. slope.
20.06	To Cor. No. 12. Deposit a malpais stone 6 x 4 x 3 ins. marked with a + 20 ins. in the ground, over which set a limestone 30 x 12 x 6 ins. chiseled + for the point and 12 H E S 575 on NW. face; raise a mound of stone 3 ft. base, 2 ft. high, NW. of cor., whence: A juniper 40 ins. dia., brs. S. 70° 11' E., 97 lks. dist. A cedar 25 ins. dia., brs. S. 5° 01' E., 209 lks. dist. Each blazed and scribed 12 H E S 575 + B T Cor. H-2 of the list survey, which is a limestone 24 x 12 x 6 ins. above ground, marked and witnessed as described by the Forest Service, brs. S. 8° 47' E., 19 lks. dist. I destroy all trace of this list cor. <hr/> Thence S. 89° 57' W., Over rocky N. slope, thru heavy brush.
8.51	Begin decent of 15 ft., over rocky W. slope, thru dense brush.
11.10	Arroyo, 10 lks. wide, banks 2 ft. high, (dry), course N. 30° W. Ascend 20 ft. over a rocky east slope.
13.01	Top of ascent, thence along rocky N. slope, thru heavy brush, juniper, oak and pinon.
24.96	To Cor. No. 1, place of beginning.

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Chains

AREA

Area in Section 13, - - - - - 109.86 Acres.
 Area in Section 18, - - - - - 50.11 Acres
 Total Area, - - - - - 159.97 Acres.

IMPROVEMENTS

The improvements made upon and for the benefit of this claim consist of the following:

A tent house, 8 x 8 ft., the long sides extending N. and S., the NW. cor. of which bears S. 79° 08' W., 11.23' chs, from cor. No. 10.

Value - - - - - \$ 5.00

1/4 mile 2 wire fence, very poorly built,

Value - - - - - \$ 25.00

DESCRIPTION

The claim lies in a flat open draw, surrounded by rocky hills. The soil is a dry sandy loam, rather shallow and appears to be powder dry except immediately after a rain, and it is very doubtful whether crops could be grown without irrigation. With irrigation approximately 70% of the area would be suitable for farming; Approximately 3 acres have been plowed in the past. There were no signs of recent occupancy on the claim. The nearest water is about 3/4 mile to SW. The only possibility of developing water on the claim is by storage tanks. 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. 577 lies about 1/2 mile in a Southwesterly direction. Payson, Arizona, the nearest settlement and postoffice, lies about 7 miles distant in a southwesterly direction.

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Chains

TRAVERSES

AREA IN SECTION 13.

Course	Dist.	N.	S.	E.	W.
West	20.00				20.00
South	10.00		10.00		
West	10.00				10.00
South	10.00		10.00		
West	19.85				19.85
North	20.00	20.00			
East	19.85			19.85	
North	20.06	20.06			
N. 89° 54' E.	30.00	.05		30.00	
S. 00° 03' W.	20.06		20.06		.02
	✓ 179.82	40.11	40.06	49.85	49.87
		40.06			49.85
Error in Lat. and Dep.		.05			.02

Closing Error, 1:3336

AREA IN SECTION 18.

Course	Dist.	N.	S.	E.	W.
N. 0° 03' E.	20.06	20.06		.02	
East	25.00			25.00	
South	20.06		20.06		
S. 89° 57' W.	24.96		.02		24.96
	✓ 90.08	20.06	20.08	25.02	24.96
			20.06	24.96	
Error in Lat. and Dep.			.02	.06	

Closing Error, 1:1424

Survey completed April 21, 1919.

Note: Any discrepancy between these field notes and those of the listing survey is due to error in the latter.

Frank J. Gost
Surveyor - Forest Service.

HOMESTEAD ENTRY SURVEY NO. 1

NATIONAL FOREST

STATE OF

Chains

00.00				00.00	00.00
00.01		00.01		00.01	00.01
00.02				00.02	00.02
00.03				00.03	00.03
00.04				00.04	00.04
00.05				00.05	00.05
00.06				00.06	00.06
00.07				00.07	00.07
00.08				00.08	00.08
00.09				00.09	00.09
00.10				00.10	00.10
00.11				00.11	00.11
00.12				00.12	00.12
00.13				00.13	00.13
00.14				00.14	00.14
00.15				00.15	00.15
00.16				00.16	00.16
00.17				00.17	00.17
00.18				00.18	00.18
00.19				00.19	00.19
00.20				00.20	00.20
00.21				00.21	00.21
00.22				00.22	00.22
00.23				00.23	00.23
00.24				00.24	00.24
00.25				00.25	00.25
00.26				00.26	00.26
00.27				00.27	00.27
00.28				00.28	00.28
00.29				00.29	00.29
00.30				00.30	00.30

Closing error, 1:33.36

00.31				00.31	00.31
00.32				00.32	00.32
00.33				00.33	00.33
00.34				00.34	00.34
00.35				00.35	00.35
00.36				00.36	00.36
00.37				00.37	00.37
00.38				00.38	00.38
00.39				00.39	00.39
00.40				00.40	00.40
00.41				00.41	00.41
00.42				00.42	00.42
00.43				00.43	00.43
00.44				00.44	00.44
00.45				00.45	00.45
00.46				00.46	00.46
00.47				00.47	00.47
00.48				00.48	00.48
00.49				00.49	00.49
00.50				00.50	00.50

Closing error, 1:14.36

Survey completed April 11, 1911.

and the discrepancy between these lines noted and

shown of the first survey is due to error in the

of the

Surveyor - Robert L. ...

TONTO NATIONAL FOREST

STATE OF ARIZONA

Chains

April 21, 1919.

Direct Solar Observation, Cor. No. 1, H.E.S. 575.

Elevation, about 6100 feet.

Lat. 34° 17' 45" N., Long. 111° 16' 20" W., from

Special Instructions from the Surveyor General, and

later verified.

Telescope	Pos.	l.m.t.	Horizontal Angle	Vertical Angle
sun	a.m.			
Direct	+	8h 25m 30s	281° 54' 30"	36° 31' 30"
Reversed	+	8h 27m 30s	281° 37' 30"	36° 25' 00"
Direct	+	8h 26m 10s	281° 21' 30"	36° 37' 30"
Reversed	+	8h 27m 00s	282° 10' 30"	36° 17' 30"
Means		8h 26m 32s	281° 46' 00"	36° 27' 52"

Corr. for refr. 57" / 36° 26' 55"

Declination, = 11° 38' 45" N.

$$\text{Cos. } Q. = \frac{\sin. 11^\circ 38' 45'' \text{ N.} \times \tan. 34^\circ 17' 45''}{\cos. 34^\circ 17' 45'' \times \cos. 36^\circ 26' 55''}$$

$$\times \cos. 36^\circ 26' 55''$$

log. sin. 11° 38' 45" = 9.3050534	
log. cos. 34° 17' 45" = 9.9170532	
log. cos. 36° 26' 55" = 9.9054667	
9.4825335 = log. .30376	
log. tan. 34° 17' 45" = 9.8338144	
log. tan. 36° 26' 55" = 9.8683940	
9.7022084 = log. .50374	
Cos. Q. = .19998	

$$Q. = 78^\circ 27' 51''$$

Bearing of reference mark, N. 0° 13' 51" W.

Chains

April 21, 1919.

Direct Solar Observation. Cor. No. 1, H.E.S. 575, Elevation about 6100 feet.

Lat. 34° 17' 45" N., Long. 111° 16' 20" W., from Special Instructions from the Surveyor General and later verified.

Telescope	Pos.	l.m.t.	Horizontal Angle	Vertical Angle
Direct	+	8h 21m 00s	281° 08' 00"	35° 34' 00"
Reversed	+	8h 23m 00s	280° 50' 30"	35° 28' 30"
Direct	+	8h 21m 30s	280° 34' 00"	35° 40' 00"
Reversed	+	8h 22m 30s	281° 25' 00"	35° 22' 30"
Means		8h 22m 00s	280° 59' 22"	35° 31' 15"
				Corr. for refr. 0' 59"
				<u>35° 30' 16"</u>

Decl. 11° 38' 41" N.

$$\text{Cos. Q.} = \frac{\sin. 11^\circ 38' 41" N. - \tan. 34^\circ 17' 45"}{\cos. 34^\circ 17' 45" \times \cos. 35^\circ 30' 16"} \times \tan. 35^\circ 30' 16"$$

log. sin. 11° 38' 41" = 9.3050125

log. cos. 34° 17' 45" = 9.9170532

log. cos. 35° 30' 16" = 9.9106620

9.4772973 = log. .30012

log. tan. 34° 17' 45" = 9.8338144

log. tan. 35° 30' 16" = 9.8533393

9.6871537 = log. .48658

Cos. Q. = 0.18646

Q. = 79° 15' 13"

Bearing of sin. = S. 79° 15' 13" E.

Bearing of reference mark, N. 0° 14' 35" W.

- 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. 575, STATE OF ARIZONA

CORNERS.	BEARING.	DISTANCE.	LATITUDES.		DEPARTURES.		DOUBLE M. D.	N. AREAS.	S. AREAS.
			NORTH.	SOUTH.	EAST.	WEST.			
			AREA IN SECTION 13.						
	West	✓ 20.00				✓ 20 00	79 70		✓ 80
	South	✓ 10.00		✓ 10 00			59 70		✓ 597 00
	West	✓ 10.00				✓ 10.00	49 70		
	South	✓ 10.00		✓ 10.00			39.70		397 00
	West	✓ 19.85				✓ 19 85	19 85		
	North	✓ 20.00	^{19 99} 20 00 ✓						
	East	✓ 19.85			19 85 ✓		19 85		
	North	✓ 20.06	20 ⁰⁵ 06 ✓				39 70	795 98 ✓	
	N. 89-54 E.	✓ 30.00	⁰⁴ 05 ✓		30 ⁰¹ 00 ✓		69 71	2 79 ✓	
	S. 00-03 W.	✓ 20.06		✓ 20 ⁰⁷ 06			99 71		✓ 2001 18
		179.82 ✓	40 11 ✓ ^{40 08} 40 08	40 06 ✓ ^{40 08} 40 08	49 85 ✓ ^{49 86} 49 86	49 87 ✓ ^{49 86} 49 85		798 77 ✓	2995 98 ✓ 798 77 ✓
	Error in Lat. and Dep.		05 ✓			02 ✓			20/2197 21 ✓
	Closing Error, 1:3338								109 86 ✓
									Acres.

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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.

8-2749

TABLING AND CALCULATIONS OF HOMESTEAD ENTRY SURVEY NO. 575, STATE OF ARIZONA

CORNERS.	BEARING.	DISTANCE.	LATITUDES.		DEPARTURES.		DOUBLE M. D.	N. AREAS.		S. AREAS.	
			NORTH.	SOUTH.	EAST.	WEST.					
AREA IN SECTION 18.											
	N. 0-03 E.	20.06	20 06		01 02		01	20			
	East	25.00	01		24 98 25 00		25 00	25			
	South	20.06		20 06		01 98	49 97			1002 40	
	S. 89-57 W.	24.96		01 02		98	24 98				25
		90.08	20 06	20 08	25 02	24 96		45		1002 65	
			20 07	20 07	24 99	24 96					45
				20 06	24 96	24 99					
	Error in Lat. and Dep.			02	06					20/1002 20	
	Closing Error, 1:1424									50 11	Acres

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APPROVAL

Office of the United States Surveyor General,

Phoenix, Arizona, May 10, 1920

The foregoing field notes of Homestead Entry Survey No.

575

executed by *Frank L. Gost, Surveyor*
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.

[Forest Service Title.]

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.

3-1-45

ORIGINAL
U. S. DEPARTMENT OF AGRICULTURE
FOREST SERVICE

1

FIELD NOTES

OF

EXCHANGE
~~XXXXXXXXXXXXXXXXXXXX~~ SURVEY NO. 675

SITUATED IN THE **PRESCOTT** NATIONAL FOREST

ADMINISTRATIVE DISTRICT NO. 3

In Section 23 , surveyed, Township 13 N., Range 2 W.

of the

Gila & Salt River Meridian.

State of **Arizona**

Applicant for listing

Residence

Application No. , dated , 19

List No. , dated , 19

*
Applicant for survey **Mrs. Lucene L. McConnell**

Residence **Prescott, Arizona**

H. E. No. , dated , 19

Land Office

Survey executed by **Thomas F. Myers, Civil Engineer, Forest Service**

[Forest Service Title.]

Under special **Pro Forma** instructions dated **January 11**, 19**45**

Survey commenced **April 4**, 19**44**

Survey completed **April 11**, 19**44**

Under Acts of **March 20, 1922** and **July 12, 1943**

*Lucene L. McConnell
Feb. 10, 1945*

OATH OF ASSISTANTS

We hereby certify that we assisted **Thomas F. Myers,**
Civil Engineer, Forest Service in surveying all those
[Forest Service Title.]
 parts or portions of ~~XXXXXXXXXXXX~~ ^{Exchange} Survey No. **675**, 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

Note: It would have been very
 inconvenient and expensive to
 appear before a notary to administer
 oaths to assistants; hence they were
 taken by the Surveyor.

Handwritten signature: G. Essenden
Handwritten signature: Woody V. O'Neil

Subscribed and sworn to before me this **11th** day of
April, 19 **44**

Handwritten signature: Thomas F. Myers
 Civil Engineer, Forest Service

OATH OF SURVEYOR

I, **Thomas F. Myers, Civil Engineer, Forest Service**
[Forest Service Title.]

do solemnly swear that, in strict conformity with the special ^{Pro Forma} instruc-
 tions of the United States Surveyor General for **Arizona**, dated
January 11, 19 **45**, and the laws of the United States, I have
 well, faithfully, and truly, in my own proper person, surveyed a tract
 of land

, No. _____, dated _____, 19 _____, for
 the same to be known as ~~XXXXXXXXXXXX~~ ^{Exchange} under the Act of _____, 19 _____,
 situated within the _____ National Forest, in
 surveyed Section **23**, Township **13 N.**, Range **2 W.**, and
 surveyed Section _____, Township _____, Range _____

of the **Gila & Salt River** 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.

Handwritten signature: Thomas F. Myers
 Civil Engineer, Forest Service
[Forest Service Title.]

Subscribed and sworn to before me this _____ day of
26 Day of Feb., 19 **45**

Handwritten signature: Wanna Rutledge
 Notary Public



Chains

The tract of land embraced in this survey is within and a part of the Prescott National Forest. It is proposed to grant this tract to Mrs. Lucene L. McConnell in exchange for lands desired by the Forest Service.

Situated in Sec. 23, T. 13 N., R 2 W. Gila and Salt River Meridian, Arizona.

Surveyed under Special Pro Forma Instructions from Public Survey Office at Phoenix, Arizona, dated January 11, 1945 and designated Exchange Survey No. 675.

Survey was commenced April 4, 1944, and was executed with a Buff and Buff transit No. 10019.

Prior to beginning the survey 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 400 link steel tape. The slope angles were determined with a clinometer.

Surveyed under the Acts of March 20, 1922 and July 12, 1943.

April 4, 1944.

At my station, approximately 5.00 chains East of the 1/4 Cor. bet. Secs. 23 and 26, T. 13 N., R 2 W., hereinafter described, in Lat. $34^{\circ} 29' N.$, Long. $112^{\circ} 26' 06'' W$ from Forest Service Base Map, I observe Polaris as follows:

Telescope	Watch Time	Bearing of Ref. Mark Mark is East of Star
Direct	8h 07m 00s	$55^{\circ} 10'$
Reversed	<u>8h 11m 30s</u>	<u>$55^{\circ} 10'$</u>
Mean	8h 09m 15s	$55^{\circ} 10'$
Corr. to l.m.t.	<u>1h 29m 44s</u>	
l.m.t. obsn. Polaris	<u>6h 39m 31s</u>	

Greenwith m.t. U.C. Polaris April 4, 1944	0h 53.2m. p.m.
Corr. for long.	<u>1.2m</u>
l.m.t. U.C. Polaris	0h 52.0m. p.m.
l.m.t. obsn. Polaris, April 4, 1944	<u>6h 39.5m p.m.</u>
Hour Angle	<u>5h 47.5m.</u>

Azimuth of Polaris $1^{\circ} 12' 7'' W.$

Bearing of Reference Mark N. $53^{\circ} 57' 18'' E.$

Telescope	Watch Time	Bearing of Ref. Mark Mark is East of Star
Direct	8h 14m 40s	$55^{\circ} 10'$
Reversed	<u>8h 19m 55s</u>	<u>$55^{\circ} 10'$</u>
Mean	8h 17m 17s	$55^{\circ} 10'$
Corr. to l.m.t.	<u>1h 29m 44s</u>	
l.m.t. obsn Polaris	<u>6h 47m 33s</u>	

EXCHANGE
HOMESTEAD ENTRY SURVEY NO. 675

PRESCOTT NATIONAL FOREST

STATE OF ARIZONA

Chains 1.m.t. U.C. Polaris April 4, 1944 oh 52.0 m. p.m.
1.m.t. obsn. Polaris April 4, 1944 6h 47.55m . p.m.
Hour Angle 5h 55.55m

Azimuth of Polaris 1° 12' 18" W

Bearing of Reference Mark N. 53° 57' 12" E.

Mean bearing of Reference Mark is N. 53° 57' 15" E. I accept bearing of Reference Mark as N. 53° 57' E., and to the corresponding meridian all the courses of this survey were referred by sustained angulation.

Note: My watch is set one hour fast of 105th Standard Meridian time, and compared with the Western Union time at Prescott, Arizona, was found to be correct.

April 4, 1944.

April 5, 1944.

Beginning at the 1/4 Cor. bet Secs. 23 and 26, T. 13 N., R 2 W., an iron post 1 inch in diam. with brass cap properly marked and witnessed.

Thence North

On meridional 1/4 Sec. line through center of Sec. 23.

81.10 Fall 106 lks. East of 1/4 Cor. bet. Secs. 14 and 23, T. 13 N., R. 2 W., an iron post 1 inch in diam. with brass cap, set in mound of stones and properly marked and witnessed.

True line is N. 0° 45' W. 81.11 chs.

April 5, 1944.

Boundaries of Survey

April 11, 1944.

Beginning at Cor. No. 1.

Set an iron post 2 ins. in diam. 30 ins. long, 20 ins. in the ground with brass cap marked 1 E S 675 in Northeast quadrant, and 1944 on South rim; raise mound of stone 2 ft. base 1 1/2 ft. high Northeast of Cor., from which

6 in. pine bears S. 4° 00' E. 49 lks. mkd. 1 E S 675
x B T

11 in. pine bears S. 50° E. 25 lks. mkd. 1 E S 675 x B T

1/4 Cor. bet. Secs. 23 and 26, previously described bears S. 0° 45' E. 27.41 chs.

Thence N. 0° 45' W.

Along meridional 1/4 section line through Sec. 23, descending over North slope through scattering pine.

2.05 Bannon Creek, running water 4 lks. wide, 1 inch deep, course West. Asc. South slope.

PRESCOTT NATIONAL FOREST

STATE OF ARIZONA

Chains

6.05 Road, bears NW., SE. and East.

6.65 Top ascent on small ridge, bears East and West.

7.68 To Cor. No. 2.

Set an iron post 2 ins. in diam. 30 ins. long, 20 ins. in the ground with brass cap marked 2 E S 675 in South-east quadrant and 1944 on South rim; raise mound of stone 2 ft. base 1 1/2 ft. high SE. of corner, from which

18 in. pine bears S. 22°45' W. 32 lks. mkd. 2 E S 675
x B T

10 in. oak bears S. 80° W. 8 lks. mkd. 2 E S 675 x B T

1/4 Cor. bet. Secs. 14 and 23, previously described bears N. 0°45' W. 46.02 chains.

Thence East

Over rolling North slope through young pine and oak.

4.82 To Cor. No. 3.

Set an iron post 2 ins. in diam. 30 ins. long, 20 ins. in the ground, with brass cap marked 3 E S 675 in South-west quadrant and 1944 on South rim; raise mound of stone 2 ft. base 1 1/2 ft. high SW. of corner, from which

11 in. pine bears N. 33° W. 141 lks. mkd. 3 E S 675
x B T

12 in. pine bears N. 26° E. 14 lks. mkd. 3 E S 675 x B T

Thence S. 47° 43' E.

Through oak and open pine timber.

2.69 To Cor. No. 4.

Set an iron post 2 ins. in diam. 30 ins. long, 20 ins. in the ground, with brass cap marked 4 E S 675 in South-west quadrant and 1944 on South rim, whence

14 in. oak bears N. 3° 30' E. 117 lks. mkd. 4 E S 675
x B T

9 in. oak bears N. 43°30' W. 148 lks. mkd. 4 E S 675
x B T

Thence South

Over rolling land through pine timber

.20 Road, from McConnell's Lobo Lodge to Prescott, Ariz. bears East and West.

6

PRESCOTT NATIONAL FOREST

STATE OF ARIZONA

Chains

- 2.39 Fence, bears East and West.
- 4.78 Bannon Creek, 4 lks. wide, 1 in. deep, course Northwesterly.
- 5.85 Fence, bears East and West.
- 5.86 To Cor. No. 5.

Set an iron post 2 ins. in diam. 30 ins. long, 20 ins. in the ground, with brass cap marked 5 E S 675 in Northwest quadrant and 1944 on South rim, whence

24 in. pine bears S. 58° 30' E. 22 lks. mkd. 5 E S 675
x B T

10 in. oak bears S. 57° 30' W. 53 lks. mkd 5 ES 675
x B T

Thence West

Over rolling land through edge of pine timber.

- 6.71 To Cor. No. 1, the place of beginning

April 11, 1944

AREA

Area 5.00 Acres

CONFLICTS AND ADJOINING CLAIMS

There are no conflicts. The survey is adjoined on the West by patented H. E. No. 1575, embracing the NE/4 SW/4 of Sec. 23, and belonging to Mrs. Lucene L. McConnell.

IMPROVEMENTS

A log house, 10 x 16 ft., long sides bear North and South, the SE. corner of which bears N. 3° 29' E. 2.14 chs. from Cor. No. 1.

A log slab shed, 20 x 20 ft. with 10 ft. l on NE. corner the SW. corner of which bears N 30° 30' E. 2.36 chs. from Cor. No. 1

A frame house and garage, 30 x 18 ft., long sides bear North and South, the NW. corner of which bears N. 31° 33' E. 4.17 chs. from Cor. No. 1.

The corners and witnesses were marked for ES 675 on February 19, 1945.

Thomas J. Myers

Civil Engineer Forest Service

DIRECTIONS.—1. Carry out the area in acres to three decimals, and all other calculations to two decimals only.
 2. In balancing the latitudes and departures do not obliterate or change the original figures, but put the corrections above in red ink. Do not change the footing of the original figures, but put the corrected footing below in red ink.
 3. See Chapter IX, Manual of 1930, for instructions relative to balancing the closing error, computation of areas, and use of total latitudes and departures.

TABLING AND CALCULATIONS OF EXCHANGE SURVEY NO. 675 - Mrs. Lucene L. McConnell Survey - Prescott National Forest

U. S. GOVERNMENT PRINTING OFFICE 6-3772

No.	COURSE	DISTANCE	LATITUDES		DEPARTURES		DOUBLE MERIDIAN DISTANCE	NORTH AREAS	SOUTH AREAS	TOTALS	
			NORTH	SOUTH	EAST	WEST				LATITUDE	DEPARTURE
1-2	N. 0° 45' W.	7 68	7 68			10	10	77			
	East	4 82			4 82		4 82				
	S. 47° 43' E.	2 69		1 81	1 99		11 63		21 05		
	South	5 86		5 86			13 62		79 81		
	West	6 71				6 71	6 91				
		27 96	7 68	7 67	6 81	6 81		77	100 86		
			7 67						77		
			01						20) 100 09		
	Closing Error - 1/2796								5 004	Acres	

APPROVAL

DEPARTMENT OF THE INTERIOR
~~Office of the United States Surveyor General,~~
GENERAL LAND OFFICE
PUBLIC SURVEY OFFICE, Phoenix, Ariz., March 12, 1945.

The foregoing field notes of ~~Homestead Entry Survey No.~~

EXCHANGE SURVEY NO. 675

executed by Thomas F. Myers, Civil Engineer,
Pro Forma [Forest Service Title.]
under his special/instructions, dated January 11, 1945, having
been critically examined, and the necessary corrections and explanations
made, the said field notes, and the surveys they describe, are hereby
approved.

E. A. Thompson

~~U. S. Surveyor General.~~
Office Cadastral Engineer

~~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.~~

~~U. S. Surveyor General.~~
~~Office Cadastral Engineer~~