

U. S. DEPARTMENT OF AGRICULTURE  
FOREST SERVICE

444 add

**FIELD NOTES**

1913-1917

450 add

QF

HOMESTEAD ENTRY SURVEY NO. 441

SITUATED IN THE CROOK NATIONAL FOREST

ADMINISTRATIVE DISTRICT NO. 3

In Section 2, unsurveyed, Township 1 N., Range 13 E.

In Section 35, unsurveyed, Township 2 N., Range 13 E.

of the

Gila and Salt River Base and Meridian.

State of

ARIZONA

Applicant for listing Ed Horrell,

Residence Miami, Arizona

Application No. 276, dated June 15, 1914

List No. 3-3336, dated September 23, 1914

Applicant for survey Ed Horrell,

Residence Miami, Arizona

H. E. No. 026659, dated February 12, 1915

Office District Phoenix, Arizona

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

Under special instructions dated December 23, 1915

Survey commenced February 18, 1916

Survey completed February 19, 1916

Under Acts of June 11, 1906 and March 4, 1915

OATH OF ASSISTANTS

We hereby certify that we assisted **Walter G. Turley,**  
**Surveyor - Forest Service** in surveying all those  
[Forest Service Title.]

parts or portions of Homestead Entry Survey No. **441**, 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.

*Charles H. Baecht*, Chairman  
*Ferry D. Lewis*, Chairman  
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Subscribed and sworn to before me this *twenty eighth* day of  
*march*, 19*16*. *Walter G. Turley*  
*Surveyor Forest Service.*

OATH OF SURVEYOR

I, **Walter G. Turley,** **Surveyor - Forest Service**  
[Forest Service Title.]

do solemnly swear that, in strict conformity with the special instruc-  
tions of the United States Surveyor General for **Arizona**, dated  
**December 23**, 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. **5-3336**, dated **September 23** 19**14**, for  
**Patent**, under the Act of **June 11**, 19**06**,  
the same to be known as Homestead Entry Survey No. **441**,  
situated within the **CROOK** National Forest, in  
**unsurveyed Section 2**, Township **1 N.**, Range **13 E.**, and  
**unsurveyed Section 35**, Township **2 N.**, Range **13 E.**,

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.

*Walter G. Turley*  
*Surveyor Forest Service.*  
[Forest Service Title.]

Subscribed and sworn to before me this *8th* day of  
*April*, 19*16*

*Elsie C. Meyer*  
*Notary Public*



## CROOK NATIONAL FOREST

STATE OF ARIZONA

Chains

Applicant for listing, Ed Horrell; Application No. 276, dated June 15, 1914; List No. 3-3336, dated September 23, 1914; Homestead Entry No. 026659, made in the Phoenix Land Office on February 12, 1915 by Ed Horrell, whose post office address is Miami, Arizona.

Surveyed under Acts of June 11, 1906 and March 4, 1915, together with special instructions from the Surveyor General for Arizona, dated December 23, 1915 and designated as Homestead Entry Survey No. 441.

Situated in what will probably be, when surveyed, sec. 2, T. 1 N., R. 13 E. and sec. 35, T. 2 N., R. 13 E., Gila and Salt River Base and Meridian, within the Crook National Forest, Arizona.

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Survey commenced February 18, 1916, 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 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.

All distances are horizontal, and were reduced from measurements made directly on the slope with a 500 link steel tape graduated to links and tenths. The slope angles were determined with a clinometer, the vernier of which reads to degrees.

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February 18, 1916.

Chains

I set up my transit over cor. H-1 of List 3-3336, which is a quartzite stone 12 x 8 x 6 ins. above ground, marked and witnessed as described by the Forest Service; and with telescope direct, I observe Polaris in accordance with instructions at 6h. 00m. 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.  $33^{\circ} 27' 46''$  N. and Long.  $111^{\circ} 00' 11''$  W., from special instructions from the Surveyor General.

Astron. l.m.t. obsn., February 18, 1916, 6h. 00.0m.  
 Astron. l.m.t. U.C. Pol., Feb. 18, 1916, 3h. 38.7m.  
 Hour angle Pol. at obsn., 2h. 21.3m.  
 Azimuth Pol. at obsn.,  $0^{\circ} 47' 48''$  W.

With my transit set up over cor. H-1 of List 3-3336, heretofore described, and with telescope reversed in altitude and azimuth, at 6h. 14m. p.m., l.m.t., on the same date, I again observe Polaris in accordance with instructions, and mark the direction thus determined with tack in a stake set firmly in the ground 5.00 chs. N. of my station.

Astron. l.m.t. obsn., February 18, 1916, 6h. 14.0m.  
 Astron. l.m.t. U.C. Pol., Feb. 18, 1916, 3h. 38.7m.  
 Hour angle Pol. at obsn., 2h. 35.3m.  
 Azimuth of Pol. at obsn.,  $0^{\circ} 51' 42''$  W.

February 19, 1916.

I turn off  $0^{\circ} 48'$ , the azimuth of Polaris, to the E. from its direction at 6h. 00m. p.m., l.m.t., February 18, 1916; and mark the line thus determined with a tack in

## CROOK NATIONAL FOREST

STATE OF ARIZONA

Chains

a stake set firmly in the ground 5.00 chs. N. of my station.

I also turn off  $0^{\circ} 52'$ , the azimuth of Polaris, to the E. from its direction at 6h. 14m. 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  $0^{\circ} 00' 26''$  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.

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Latitude  $33^{\circ} 27' 46''$  N. and Longitude  $111^{\circ} 00' 11''$  W.

at cor. No. 1, by account from values stated in the special instructions from the Surveyor General. It was not practicable to check the latitude by direct observation owing to cloudy weather.

My watch is set for Standard 105th. Meridian time, from which I subtract 24m. 00s. for l.m.t.

Observed magnetic declination at cor. No. 1, at 8h. 00m. a.m., February 19, 1916 was  $14^{\circ} 50'$  E. Mean magnetic declination,  $14^{\circ} 49'$  E.

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Beginning at cor. No. 1.

Identical with cor. H-1 of List 3-3336, which is a

quartzite stone 12 x 8 x 6 ins. above ground, marked

and witnessed as described by the Forest Service. I

destroy cor. H-1 and its witnesses; and, for cor. No. 1

of this survey, I chisel (+) on a stone 4 x 3 x 2 ins.,

HOMESTEAD ENTRY SURVEY NO. 441

CROOK NATIONAL FOREST

STATE OF ARIZONA

Chains

and deposit it 15 ins. in the ground; over which I set a quartzite stone 25 x 8 x 4 ins., 15 ins. in the ground, chiseled (+) at the point and 1 - H E S 441 on the NNW. face; and raise a mound of stone 2 ft. base, 1-1/2 ft. high, NNW. of cor., from which:

A 7 in. desert willow bears N. 76° 12' W., 183 lks., blazed and scribed 1 H E S 441 + B T.

A 4 in. catclaw bears S. 61° 35' W., 122 lks., blazed and scribed 1 H E S 441 + B T.

Cor. No. 1 H. E. S. No. 71, which is a quartzite stone 12 x 8 x 10 ins. above ground, marked and witnessed as described by the Surveyor General, bears S. 5° 52' W., 16.05 chs., by direct measurement.

U. S. L. M. No. 71 H. E. S., which is a natural dacite cropping 15 x 20 ft. in area, showing 8 ft. high on West side and nearly flush with surrounding formation on East, marked and witnessed as described by the Surveyor General, bears S. 43° 54' E., 28.79 chs., by direct measurement.

Thence N. 72° 35' W.

Asc. brushy bottom 5 ft. along fence.

5.12 Fence cor. bears N. and along line.

5.13 To cor. No. 2.

Identical with cor. H-5 of List 3-3336, which is a quartzite stone 12 x 4 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.

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

TRENCROOK NATIONAL FOREST

STATE OF ARIZONA

Chains a quartzite stone 26 x 12 x 5 ins., 16 ins. in the ground, chiseled (+) at the point and 2 - H E S 441 on the NNE. face; and raise a mound of stone 2 ft. base, 1-1/2 ft. high NNE. of cor., from which:

A 7 in. hackberry bears N. 50° 50' E., 44 lks., blazed and scribed 2 H E S 441 + B T.

A 5 in. hackberry bears N. 76° 40' E., 46 lks., blazed and scribed 2 H E S 441 + B T.

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Thence N. 43° 22' W. Over brushy bottom.

3.00 Leave bottom bears NE. and SW. Asc. SE. slope 75 ft.

19.80 Ridge bears E. and W. Continue along open NE. slope.

27.79 To cor. No. 3.

Identical with cor. H-4 of List 3-3336, which is an embedded limestone 24 x 18 x 6 ins. above ground, marked and witnessed as described by the Forest Service.

I destroy cor. H-4 and its witnesses; and, for cor. No. 3 of this survey, I chisel + at the point and 3 - H E S 441 on the same stone; and raise a mound of stone 2 ft. base, 1-1/2 ft. high E. of cor., from which:

A 7 in. juniper limb bears N. 28° 14' W., 186 lks., blazed and scribed 3 H E S 441 + B T.

A 12 in. juniper bears N. 21° 10' W., 186 lks., blazed and scribed 3 H E S 441 + B T.

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Thence N. 70° 29' E.

Desc. open NE. slope 85 ft.

18.16 Wire fence bears NE. and SW.

19.46 To cor. No. 4.

I chisel (+) on a stone 4 x 3 x 2 ins., and deposit it 14 ins. in the ground, over which I set a limestone

*in face?*

Chains 24 x 10 x 10 ins., 14 ins. in the ground, chiseled (+)  
at the point and 4 - H E S 441 on the SSW. face; and  
raise a mound of stone 2 ft. base, 1-1/2 ft. high, SSW.  
of cor., from which:

A 5 in. mesquit bears S. 5° 00' E., 111 lks.,  
blazed and scribed 4 H E S 441 + B T.

A 4 in. catclaw bears N. 86° 30' W., 95 lks.,  
blazed and scribed 4 H E S 441 + B T.

Point for cor. H-3 of List 3-3336 bears N. 70°  
29' E., 89 lks. Cor. H-3 has been destroyed  
by Pinto Creek. Point was determined from  
call of its witnesses. I destroy the wit-  
ness trees.

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Thence S: 24° 39' E.  
Over open bottom.

4:90 Enter cultivated land bears NE. and SW.

11:32 Wire fence bears N. and S. Leave cultivated land.

16:64 To cor. No. 5.  
I chisel (+) on a stone 4 x 4 x 3 ins., and deposit it  
16 ins. in the ground, over which I set a quartzite  
stone 26 x 12 x 5 ins., 16 ins. in the ground, chiseled  
(+) at the point and 5 - H E S 441 on the W. face; and  
raise a mound of stone 2 ft. base, 1-1/2 ft. high W. of  
cor., from which:

A 4 in. mesquit bears N. 38° 30' W., 61 lks.,  
blazed and scribed 5 H E S 441 + B T.

A 6 in. mesquit bears S. 39° 00' W., 38 lks.,  
blazed and scribed 5 H E S 441 + B T.

Point for cor. H-2 of List 3-3336 bears S. 21°  
30' E., 3.58 chs. Cor. H-2 has been destroyed  
by Pinto Creek. Point was determined from



CROOK MOUNT NATIONAL FOREST

STATE OF ARIZONA

Chains  
I call of witnesses. I destroy the witness trees.

Thence S. 5° 44' W.

Asc. brushy bottom 5 ft.

1.00 Wire fence bears NNW. and SSE.

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

AREA  
Total Area - - - 36.77 acres

IMPROVEMENTS

A frame dwelling, 16 x 12 ft., the long side extending N. and S. and the NE. cor. of which bears S. 57° 30' W. 5.45 chs. from cor. No. 5 of this survey.

Estimated Value ----- \$150.00

Approximately 1/2 mile of wire fencing.

Estimated Value ----- \$ 50.00

Approximately 5 acres of cultivated land.

DESCRIPTION

This claim is situated on Pinto Creek, a tributary to Salt River, and is chiefly valuable for general farming and stock raising.

There is no timber in this section.

Water flows in Pinto Creek until late in the season.

The soil is a sandy loam and produces the ordinary crops of the temperate zone. Good crops of barley hay have been produced.

This section is not known to be mineralized and no town-sites, mining, coal or oil claims are known to have been located in this vicinity.

Chains Miami post office and railway station is 10 miles by wagon road in an Easterly direction.

There are no conflicts or adjoining claims. Approved

H. E. S. No. 71 lies to the East of this claim, but does not adjoin it.

TRAVERSE

Cor.	Course	Dist.	N	S	E	W	
1-2	N. 72° 35' W.	5.13	1.54			4.89	
2-3	N. 43° 22' W.	27.79	20.20			19.08	
3-4	N. 70° 29' E.	19.46	6.50		18.34		
4-5	S. 24° 39' E.	16.64		15.12	6.94		
5-1	S. 5° 44' W.	13.21		13.14		1.32	
			<u>82.23</u>	28.24	28.26	25.28	25.29
Error in Lat. and Dep:				<u>28.24</u>		<u>25.28</u>	
				.02		.01	

Closing error, 1:3677.

Survey completed February 19, 1916.

*Walter J. Turley*

Surveyor - Forest Service

- 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. 441, STATE OF ARIZONA. Ed. Horrell, Creek.**

CORNERS.	BEARING.	DISTANCE.	LATITUDES.		DEPARTURES.		DOUBLE M. D.		N. AREAS.	S. AREAS.
			NORTH.	SOUTH.	EAST.	WEST.				
1-2	N. 72° 35' W.	5.13	1 54			4 89	43 03	66 27 ✓		
2-3	N. 43° 22' W.	27.79	20 20			19 08	19 07	385 40 ✓		
3-4	N. 70° 29' E.	19.46	6 50		18 34		18 34	112 39 ✓		
4-5	S. 24° 39' E.	16.64		15 12	6 94		43 62		659 53 ✓	
5-1	S. 5° 44' W.	13.21		13 14		1 32	49 24		647 01 ✓	
		82.23	28 24	28 26	25 28	25 29		571 06	1306 54	
			28 26	28 26	25 28	25 28		571 06	735 48	
									36 77 ✓	Acres.
	Closing error, 1:3677									

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APPROVAL

Office of the United States Surveyor General,

Phoenix, Arizona JUL 8 1917 , 191

The foregoing field notes of Homestead Entry Survey No.

441

executed by *Walter G. Turley, Surveyor* [Forest Service Title.]  
under his special instructions, dated *Dec. 23* , 1915, 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*  
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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.

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**FRANK P. TROTT**  
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U. S. Surveyor General.