

U. S. DEPARTMENT OF AGRICULTURE  
FOREST SERVICE

45

MAR 2 - 1917

436

**FIELD NOTES**

OF

HOMESTEAD ENTRY SURVEY NO. 436

SITUATED IN THE CROOK NATIONAL FOREST

ADMINISTRATIVE DISTRICT NO. 3

In Section 3, - surveyed, Township 2 S., Range 12 E.

of the

Gila and Salt River Base and Meridian.

State of

ARIZONA

Applicant for listing **E. R. Acosta,** ✓  
 Residence **Superior, Arizona**  
 Application No. **231** ✓, dated **January 29**, 1913 ✓  
 List No. **3-2459** ✓, dated **April 10**, 1913 ✓

Applicant for survey **E. R. Acosta,**  
 Residence **Superior, Arizona**  
 H. E. No. **023117** ✓, dated **September 17**, 1913 ✓  
 Office **Phoenix, Arizona**  
 Land District

Survey executed by **Walter G. Turley,** Surveyor - Forest Service  
[Forest Service Title.]  
 Under special instructions dated **December 2**, 1915 ✓  
 Survey commenced **February 11**, 1916  
 Survey completed **February 12**, 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. **436**, 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 A. Baechly*, 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 2**, 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. **3-2459**✓, dated **April 10**, 19*13*✓, for  
**Patent**, under the Act of **June 11, 1906**,  
the same to be known as Homestead Entry Survey No. **436**,  
situated within the **CROOK** National Forest, in  
- surveyed Section **3**, Township **2 S.**, Range **12 E.**, and  
- surveyed Section - - - -, Township - - - -, Range - - - - ,

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*.



8-2349

*Elsie C. Myers*  
*Notary Public*

CROOK NATIONAL FOREST

STATE OF ARIZONA

Chains

Applicant for listing, E. R. Acosta; Application No. 231, dated January 29, 1913; List No. 3-2459, dated April 10, 1913; Homestead Entry No. 023117, made in the Phoenix Land Office on September 17, 1913 by E. R. Acosta, whose post office address is Superior, Arizona.

Surveyed under Acts of June 11, 1906 and March 4, 1915, together with special instructions from the Surveyor General for Arizona, dated December 2, 1915, and designated as Homestead Entry Survey No. 436.

Situated in surveyed and accepted sec. 3, T. 2 S., R. 12 E., Gila and Salt River Base and Meridian, within the Crook National Forest, Arizona.

Survey commenced February 11, 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.

February 11, 1916.  
Chains

I set up my transit over cor. H-1 of List 3-2459, which is a granite stone 10 x 12 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. 10m. 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° 17' 11" N. and Long. 111° 06' 21" W., from special instructions from the Surveyor General.

Astron. l.m.t. obsn., February 11, 1916, 6h. 10.0m.  
Astron. l.m.t. U.C. Pol., Feb. 11, 1916, 4h. 06.4m.  
Hour angle Pol. at obsn., 2h. 03.6m.

Azimuth Pol. at obsn., 0° 42' 16" W.

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With my transit set up over cor. H-1 of List 3-2459, heretofore described, and with telescope reversed in altitude and azimuth, at 6h. 18m. 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., February 11, 1916, 6h.18.0m.  
Astron. l.m.t. U.C. Pol., Feb. 11, 1916, 4h.06.4m.  
Hour angle Pol. at obsn., 2h.11.6m.

Azimuth of Pol. at obsn., 0° 44' 54" W.

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February 12, 1916.

I turn off 0° 42-1/2', the azimuth of Polaris, to the E. from its direction at 6h. 10m. p.m., l.m.t., February 11, 1916; and mark the line thus determined with a tack

CROOK NATIONAL FOREST

STATE OF ARIZONA

Chains

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

I also turn off  $0^{\circ} 45'$ , the azimuth of Polaris, to the E. from its direction at 6h. 18m. 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  $0^{\circ} 00' 18''$  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.

Latitude  $33^{\circ} 17' 11''$  N. and Longitude  $111^{\circ} 06' 21''$  W.

at cor. No. 1 of this survey, by account from values given in the special instructions of the Surveyor General. It was not practicable to check the Latitude by direct observation during the execution of this survey.

My watch is set for Standard 105th. Meridian time, from which I subtract 24m. 25s. for l.m.t.

Observed magnetic declination at cor. No. 1 at 8h. 00m. a.m., February 12, 1916 is  $14^{\circ} 40'$  E. Mean magnetic declination,  $14^{\circ} 39'$  E.

RETRACEMENT

Thence S.  $48^{\circ} 02'$  E.

On a true line, by direct measurement, from cor. H-1, List 3-2707, which is also cor. H-2 List 3-2459, hereinafter described.

HOMESTEAD ENTRY SURVEY NO. 436

CROOK NATIONAL FOREST

STATE OF ARIZONA

Chains  
13.86

Cor. H-3, List 3-2459, which is a granite stone 6 x 2 x 3 ins. above ground, marked and witnessed as described by the Forest Service.

27.49

Cor. H-6 of List 3-2707, which is a limestone 12 x 10 x 6 ins. above ground, marked and witnessed as described by the Forest Service.

BOUNDARIES OF CLAIM

Beginning at cor. No. 1.

Identical with cor. H-1 of List 3-2459, which is a granite stone 10 x 12 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., and deposit it 16 ins. in the ground; over which I set a sandstone 26 x 13 x 7 ins., 16 ins. in the ground; chiseled (+) at the point and 1 - H ES 436 on the S. face; and raise a mound of stone 2 ft. base, 1-1/2 ft. high S. of cor., from which:

+ on an embedded basalt stone 60 x 48 x 20 ins. above ground bears S. 11° 10' E., 37 lks., chiseled + B R 1 H E S 436.

+ on an embedded basalt stone 72 x 72 x 48 ins. above ground bears S. 78° 05' E., 53 lks., chiseled + B R 1 H E S 436.

Cor. to secs. 34 and 35, T. 1 S., R. 12 E.,

(accepted), which is a trachite stone 8 x 6 x 6 ins. above ground, chiseled with 2 notches on the E. edge and 4 notches on the W. edge, with a mound of stone 2 ft. base, 1-1/2 ft.

high W. of cor., bears N. 53° 49' W., 23.39

CROOK NATIONAL FOREST

STATE OF ARIZONA

Chains 11.59 chs., by direct measurement.  
 Thence S. 51° 45' E.  
 Desc. open SE. slope 5 ft. Fence 3 lks. to right  
 of and parallel to line.  
 2.90 Fence cor. bears SW.  
 2.97. Right bank Queen Creek, 55 lks. wide, banks 3 ft. high,  
 course SW. Asc. brushy NW. slope 5 ft.

11.59 To cor. No. 2.  
 Identical with cor. H-4 of List 3-2459, which is an  
 embedded limestone 30 x 14 x 5 ins. above ground, mark-  
 ed and witnessed as described by the Forest Service.  
 I destroy cor. H-4 and its witnesses; and for cor. No.  
 2 of this survey, I chisel (+) at the point and 2 -  
 H E S 436 on the top of the same stone; and raise a  
 mound of stone 2 ft. base, 1-1/2 ft. high, W. of cor.,  
 from which:

A 5 in. mesquit bears N. 27° 23' E., 130 lks.,  
 blazed and scribed 2 H E S 436 + B T.

A 4 in. palo verde bears S. 88° E., 22 lks.,  
 blazed and scribed 2 H E S 436 + B T.

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15.98 Thence S. 31° 17' W.  
 Asc. brushy NW. slope 5 ft.  
 To cor. No. 3.  
 Identical with cor. H-3 of List 3-2459, which is a  
 granite stone 6 x 2 x 3 ins. above ground, marked and  
 witnessed as heretofore described. I destroy cor. H-3  
 and its witnesses; and for cor. No. 3 of this survey,  
 I chisel (+) on a stone 4 x 3 x 2 ins., and deposit it  
 14 ins. in the ground, over which I set a quartzite  
 stone 24 x 12 x 5 ins., 14 ins. in the ground, chiseled  
 + at the point and 3 - H E S 436 on the N. face; and

Chains

raise a mound of stone 2 ft. base, 1-1/2 ft. high N. of cor., from which:

- A 5 in. palo verde bears N: 64° 02' W., 29 lks., blazed and scribed 3 H E S 436 + B T.
- + on an embedded basalt stone 24 x 15 x 6 ins.; above ground, bears N. 78° 50' E., 24 lks., chiseled + B R 3 H E S 436.

Thence N. 48° 02' W.

Desc. brushy NW. mesa slope 15 ft.

- 1.56 Foot of mesa bears NE. and SW. Continue over bottom.
- 2.36 Wire fence bears NE. and SW.
- 7.31 Left bank Queen Creek, 85 lks. wide, banks 2 ft. high, course SSW. Asc. SE. slope 5 ft.
- 8.42 Cor. fence bears N. 48° 02' W. and NE. Continue along fence.
- 13.51 Cor. fence bears NE., SW. and S. 48° 02' E.
- 13.86 To cor. No. 4. Identical with cor. H-2 of List 3-2459 and cor. H-1 of List 3-2707, which is an embedded basalt stone 30 x 18 x 6 ins. above ground, marked and witnessed as described by the Forest Service. I destroy cor. H-2 and its witnessed; and, for cor. No. 4 of this survey, which will also be cor. No. 4, H. E. S. 437, I chisel + at the point, 4 - H E S 436 on the E. face and 4 - H E S 437 on the S. face of the same stone; and raise a mound of stone 2 ft. base, 1-1/2 ft. high E. of cor., whence:
  - A 10 in. cottonwood bears S. 4° 42' E., 177 lks., blazed and scribed 4 H E S 437 - 4 H E S 436 + B T.
  - A 6 in. mesquit bears S. 42° 15' E., 125 lks., blazed and scribed 4 H E S 437 - 4 H E S 436



CROOK NATIONAL FOREST

STATE OF ARIZONA

Chains + B T.  
 + on an embedded basalt stone 30 x 18 x 6 ins.  
 above ground, bears S. 54° 50' E., 31 lks.,  
 chiseled + B R 4 H E S 437.

Thence N. 39° 27' E.  
 Asc. S. slope 10 ft.  
 0.30 Florence - Superior wagon road bears NE. and SW.  
 5.10 Cease ascending and desc. E. slope 5 ft.  
 10.40 Florence - Superior wagon road bears N. and S.  
 10.86 Fence bears NNE. and SSW.  
 11.00 Irrigating ditch, 3 lks. wide, course SSW.  
 Enter cultivated land.  
 14.97 Fence bears N. 51° 45' W., and S. 51° 45' E.  
 15.00 To cor. No. 1, the place of beginning.

AREA

Total Area - - - - - 19.59 acres.

IMPROVEMENTS

A frame dwelling 24 x 15 ft., the long side extending N.  
 and S. and the SW. cor. of which bears N. 60° 00' E.,  
 4.32 chs. from cor. No. 4 of this survey.

Estimated Value ----- \$150.00

A well 4 x 4 x 15 ft. deep, the center of which bears  
 N. 53° 30' E., 5.86 chs. from cor. No. 4 of this survey.

Estimated Value ----- \$ 50.00

Approximately 7 acres of cultivated land.

Approximately 3/4 mile of fencing.

DESCRIPTION

This claim is situated on Queen Creek, a tributary to

HOMESTEAD ENTRY SURVEY NO. 436

CROOK NATIONAL FOREST

STATE OF ARIZONA

Chains the Gila River, and is valuable for gardening.  
 The soil along the creek bottom is a dark loam and produces the ordinary crops of the temperate zone. Sufficient water for all purposes flows in Queen Creek or is obtained from the well.

Good crops of garden vegetables have been produced. The mountains to the North are mineralized, but no town-sites, coal, oil or mining claims are known to conflict herewith.

Superior post office and railway station is 3/4 mile by wagon road in a Northeasterly direction.

There are no conflicts. This survey is joined on the Southwest by H. E. S. 437.

TRAVERSE

Cor.	Course	Dist.	N	S	E	W
1-2	S. 51° 45' E.	11.59		7.18	9.10	
2-3	S. 31° 17' W.	15.98		13.66		8.30
3-4	N. 48° 02' W.	13.86	9.27			10.31
4-1	N. 39° 27' E.	15.00	11.58		9.53	
		56.43	20.85	20.84	18.63	18.61
			20.84		18.61	

Error in Lat. and Dep. .01 .02

Closing error, 1:2524.

Survey completed February 12, 1916.

*Walter G. Turkey*

Surveyor - Forest Service

DESCRIPTION

This claim is situated on Queen Creek, tributary to

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.

TABLE AND CALCULATIONS OF HOMESTEAD ENTRY SURVEY NO. 436, STATE OF ARIZONA E. R. Acosta, Crook.

CORNERS.	BEARING.	DISTANCE.	LATITUDES.		DEPARTURES.		DOUBLE M. D.	N. AREAS.	S. AREAS.
			NORTH.	SOUTH.	EAST.	WEST.			
1-2	S. 51° 45' E.	11.59		7 18	9 10		28 14	202 05 ✓	
2-3	S. 31° 17' W.	15.98		13 66		8 30	28 93	395 47 ✓	
3-4	N. 48° 02' W.	13.86	9 27			10 31	10 31		95 57 ✓
4-1	N. 39° 27' E.	15.00	11 58		9 53		9 52		110 24 ✓
		56.43	20 85	20 84	18 63	18 61		205 81	597 52
			20 85	20 85	18 62	18 62			205 81
								391 71	
								19 59 ✓	
Closing error, 1:2524									

575

ENH

APPROVAL

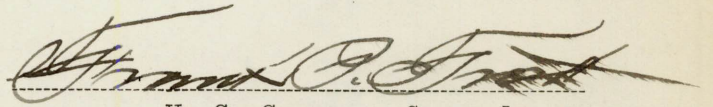
Office of the United States Surveyor General,

Phoenix, Arizona JUL 3 1917 , 191

The foregoing field notes of Homestead Entry Survey No.

436

executed by *Walter S. Turley, Surveyor* [Forest Service Title.]  
under his special instructions, dated *Dec. 2*, 1915, 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.