

U. S. DEPARTMENT OF AGRICULTURE

FOREST SERVICE

FEB 8 1910

FIELD NOTES

SEP 4 - 1917

OF

MAR 23 1918

HOMESTEAD ENTRY SURVEY NO. 430

MAY 24 1918

SITUATED IN THE CROOK NATIONAL FOREST

ADMINISTRATIVE DISTRICT NO. 3

In Section 12, unsurveyed, Township 2 N., Range 13 E. and  
Section 35, unsurveyed, Township 3 N., Range 13 E.  
and U. S. L. M. No. 430 H. E. S.

of the

Gila and Salt River Base and Meridian.

State of

ARIZONA

Applicant for listing Mrs. Angeleta De Limon, ✓

Residence Kirby, Arizona

Application No. 198 ✓, dated November 8, 1911 ✓

List No. 3-1950 ✓, dated June 13, 1912 ✓

Applicant for survey Pedro Limon, ✓

Residence Kirby, Arizona

H. E. No. 023756 ✓, dated November 15, 1913 ✓

Office  
Land District Phoenix, Arizona

Survey executed by R. P. A. Johnson, Surveyor - Draftsman

Under special instructions dated December 2, 1915 ✓

Survey commenced April 10, 1916

Survey completed April 11, 1916

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

OATH OF ASSISTANTS

We hereby certify that we assisted R. A. Johnson in surveying all those parts or portions of Homestead Entry Survey No. 430, 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.

Nelson A. Newman, Chairman  
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James D. Lewis, Chairman  
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Subscribed and sworn to before me, this twenty seventh day of May, 1916.  
R. A. Johnson  
Surveyor Draftsman

OATH OF SURVEYOR

I, R. A. Johnson, Surveyor Draftsman  
[Forest Service Title.]

do solemnly swear that, in strict conformity with the special instructions of the United States Surveyor General for Arizona, dated December 2, 1915, 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 3-1950 dated June 13th, 1912 and a tract of land upon the application of Pedro Jimron Application, No. 1985, dated November 8, 1911, for Listing and Patent, under the Act of June 11, 1906, the same to be known as Homestead Entry Survey No. 430, situated within the Crook National Forest, in unsurveyed Section 2, Township 2N, Range 13E, and un-surveyed Section 35 -- --, Township 3N -- --, Range 13E -- --,

of the Gila and 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.

DISTRICT OF COLUMBIA  
CITY OF WASHINGTON

R. A. Johnson  
Surveyor Draftsman  
[Forest Service Title.]

Subscribed and sworn to before me this 17th day of January, 1917.

Sylvester L. McFarlin  
NOTARY PUBLIC, D. C.



8-2349

Commission expires  
June 20, 1918.

Chains Applicant for listing, Mrs. Angeleta De Limon; Application No. 198, dated November 8, 1911; List No. 3-1950, dated June 13, 1912; H. E. 023756, made in the Phoenix Land Office on November 15, 1913 by Pedro Limon.

Also a tract of unlisted land adjoining claimant's entry was included in this survey; the land is agricultural in character, was desired by entryman and will be listed as basis for amendment of his entry No. 023756. This is therefore a composite survey.

Surveyed under special instructions from the Surveyor General for Arizona, dated December 2, 1915 and designated as Homestead Entry Survey No. 430.

Situated in what will probably be, when surveyed, Sec. 2, T. 2 N., R. 13 E. and Sec. 35, T. 3 N., R. 13 E.,

Gila and Salt River Base and Meridian, Crook National Forest, Arizona.

Surveyed under the Acts of June 11, 1906 and March 4, 1915.

Survey commenced April 10, 1916 and executed with a Buff and Buff transit 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.

TEST OF SOLAR

April 10, 1916.

At 9h. 05m. a.m., l.m.t., I set off  $33^{\circ} 32' 30''$  on Lat. arc,  $8^{\circ} 00' 30''$  N. on decl. arc, and determine a meridian with the solar at cor. No. 1, hereinafter described.

2.

CROOK NATIONAL FOREST

STATE OF ARIZONA

Chains I observe the altitude of the sun for azimuth at cor. No. 1. The reading on the meridian determined with solar is set at zero and the sun was observed in the upper left and lower right quadrants of the field. My watch is set for local mean time. Lat  $33^{\circ} 32' 30''$  N. Longitude  $110^{\circ} 59' 30''$  W., from U. S. G. S. Roosevelt Quadrangle.

Telescope	Time	Horizontal Angle	Vertical Angle
Direct	4h.34m.20s.	$81^{\circ} 31' 30''$	$27^{\circ} 09' 00''$
Reversed	4h.35m.14s.	$81^{\circ} 04' 00''$	$27^{\circ} 28' 00''$

Difference from meridian determined with solar attachment,  $0^{\circ} 01' 06''$ .

At 6h. 9.8m. p.m., l.m.t., I observe Polaris at Western Elongation at cor. No. 1. The reading on the meridian determined by direct solar is set at zero. The horizontal angle is  $1^{\circ} 21' 30''$  E. of star. The azimuth of Polaris is  $1^{\circ} 22' 03''$  to W. The observation therefore differs  $0^{\circ} 00' 33''$  from the meridian determined by direct solar.

April 10, 1916.

There being no cor. of Public Land Survey or U. S. L. M. within two miles, I establish U. S. L. M. No. 430 H. E. S. on N. point of rocky ridge, approximately 1/2 mile East of and 380 ft. above Pinto Creek. I mark a cross on top of an embedded granite boulder 5 x 1 x 1 ft. above ground and U S L M No 430 H E S on top of same stone; and raise a mound of stone 6 ft. base, 4 ft. high alongside, whence:

A + on a granite boulder 8 x 4 x 7 ft. high, chiseled B R + U S L M No 430 H E S, bears N.  $44^{\circ} 34'$  E., 42 lks. dist.

A juniper, 8 ins. dia., bears N.  $6^{\circ} 31'$  E., 91 lks. dist., scribed U S L M No 430 H E S

## CROOK NATIONAL FOREST

## STATE OF ARIZONA

Chains

+ B T.

East Peak in Sierra Ancho Mountains, bears

N. 9° 44' E., approximately 20 miles dist.

Box Canyon of Pinto Creek bears N. 21° 52' W.,

approximately 1 mile dist.

Northwest end Armer Mountain bears N. 5° 34' W.,

approximately 20-1/2 miles dist.

South end Armer Mountain bears N. 1° 04' W.,

approximately 19 miles dist.

High Butte W. of Pinto Creek, bears N. 65° 44' W.,

2 miles dist.

Dutch Woman Butte bears N. 21° 01' W., approximate-

ly 17-1/2 miles dist.

Lookout Mountain, known locally and on Forest

Service maps as Greenback Peak, bears N. 12°

52' W., approximately 24 miles dist.

Carr Peak in Sierra Ancho Mountains, bears N.

5° 31' E., approximately 19 miles dist.

Cor. No. 1, H. E. S. 430, hereinafter described

bears N. 70° 07' W., 28.12 chs. dist., by

direct measurement.

## BOUNDARIES OF CLAIM

Beginning at cor. No. 1.

Point for cor. falls on a granite boulder in place, showing 30 x 16 x 6 ins. above ground. 1 chisel boulder + at the point and 1 - H E S 430 on N. face; and raise a mound of stone 3 ft. base, 2 ft. high N. of cor., whence:

A mesquite 4 ins. dia., bears N. 12° 42' E.

53 lks. dist., scribed 1 H E S 430 + B T.

A mesquite, 4 ins. dia., bears N. 44° 43' W.

71 lks. dist., scribed 1 H E S 430 + B T.

Chains

U. S. L. M. No. 430 H. E. S., heretofore described, bears S. 70° 07' E., 28.12 chs. dist. by direct measurement.

Lat. 33° 32' 30" N. Longitude 110° 58' 30" W., from U. S. G. S. Roosevelt Quadrangle.

Mag. decl. at 9:00 a.m., 13° 30' E. Mean mag. decl., 13° 27' E.

Thence N. 82° 57' W.

Over unlisted land. Descend along top ridge in brush 40 ft. to cor.

7.64 To cor. No. 2.

Identical with cor. H-1 of the list survey, which is a granite boulder 6 x 4 x 4 ft. above ground, marked and witnessed as described by the Forest Service. I destroy all trace of this list cor. I mark same stone with a + on top and 2 - H E S 430 on N. face for cor. No. 2 of this survey; and raise a mound of stone 3 ft. base, 2 ft. high N. of cor., whence:

A (+) cross on a granite boulder 12 x 4 x 4 ft. above ground, chiseled 2 H E S 430 + B R, bears S. 31° 14' E., 30 lks. dist.

A mesquite, 8 ins. dia., bears S. 76° 26' E., 64 lks. dist., scribed 2 H E S 430 + B T.

Thence S. 83° 40' W.

Over unlisted land. Descend 40 ft. to creek.

1.23 Brush fence, bears NE. and SW.

1.40 Irrigation ditch, 5 lks. wide, course NNW.

1.63 Fence, bears NNW. and SSE.

2.60 East bank Pinto Creek, 4 ft. high, bears NE.

5.60 Center Pinto Creek, running water 60 lks. wide, course NE. Ascend steep rocky slope 10 ft. to cor.

## CROOK NATIONAL FOREST

STATE OF ARIZONA

## Chains

6.00

To cor. No. 3.

Point falls on E. face of a granite cliff 50 ft. high, 3 ft. above ground, I chisel + at the point and 3 - H E S 430 for cor. No. 3; and raise a mound of stone 3 ft. base, 2 ft. high NE. of cor., whence:

A + on a granite ledge 8 ft. above creek, chiseled B R 3 H E S 430, bears S. 22° E., 19 lks. dist.

An alder, 8 ins. dia., bears N. 65° W., 136 lks. dist., scribed 3 H E S 430 + B T.

Cor. H-2 of the list survey is not found after careful search.

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Thence N. 43° 45' E.

Descend 10 ft. to creek bed.

1.50 Enter creek bottom. Continue up bottom.

3.45 Leave unlisted and enter listed land.

11.00 West bank Pinto Creek, 5 ft. high, bears ENE. Ascend 90 ft. to cor. in brush.

18.49 To cor. No. 4.

Identical with cor. H-3 of the list survey, which is a quartzite stone 12 x 8 x 8 ins. above ground, marked and witnessed as described by the Forest Service. I destroy all trace of this list cor. Deposit a granite stone 2 x 2 x 2 ins. marked with a + 14 ins. in the ground, over which set a granite stone 24 x 8 x 8 ins., chiseled + for the point and 4 - H E S 430 on E. face; and raise a mound of stone 3 ft. base, 2 ft. high E. of cor., whence:

A mesquite, 6 ins. dia., bears S. 8° 51' W., 62 lks. dist., scribed 4 H E S 430 + B T.

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HOMESTEAD ENTRY SURVEY NO. 430

CROOK NATIONAL FOREST

STATE OF ARIZONA

Chains

A mesquite, 6 ins. dia., bears N. 50° 56' E.,  
90 lks. dist., scribed 4 H E S 430 + B T.  
April 10, 1916.

April 11, 1916.

Thence N. 0° 17' E.

Descend 95 ft. in brush to creek.

6.00 Brush fence, bears E. and W. Enter cultivated land.

8.30 Leave cultivated land, bears ENE. and SSW.

8.50 South bank Pinto Creek, 7 ft. high, bears W.

9.75 Center Pinto Creek, running water 100 lks. wide, course  
West.

11.00 North bank Pinto Creek, 3 ft. high, bears W.

14.10 East bank Pinto Creek, 3 ft. high, course NE. Descend  
7 ft. in rocky bottom to water.

20.75 Center Pinto Creek, running water 100 lks. wide,  
course NE.

21.25 West bank Pinto Creek, 5 ft. high; bears NE. Ascend  
steep slope 70 ft. to cor. in brush.

23.92 To cor. No. 5.

Identical with cor. H-4 of the list survey, which is  
an embedded granite boulder 4 x 2 x 3 ft. above  
ground, marked and witnessed as described by the  
Forest Service. I destroy all trace of this list  
cor. and mark + on top and 5 - H E S 430 on SE. face  
of same stone for cor. No. 5 of this survey; and  
raise a mound of stone 3 ft. base, 2 ft. high SE.  
of cor., whence:

A + on a granite boulder 36 x 12 x 4 ins. above  
ground, chiseled B R 5 H E S 430, bears  
N. 74° 26' W., 25 lks. dist.

A juniper, 4 ins. dia., bears N. 89° 27' E., 22  
lks. dist., scribed 5 H E S 430 + B T.



## CROOK NATIONAL FOREST

STATE OF ARIZONA

Chains	At 9h.35m. a.m., l.m.t., I set off $33^{\circ} 33'$ on Lat. arc, $8^{\circ} 22' 30''$ on decl. arc, and determine a meridian with the solar.
	Thence N. $76^{\circ} 21'$ E. Over unlisted land. Descend steep rocky slope 75 ft. to creek bank in brush.
5.80	West bank Pinto Creek, 5 ft. high, bears NE.
9.00	Center Pinto Creek, running water 100 lks. wide, course NE.
11.20	East bank Pinto Creek, 15 ft. high. Ascend 40 ft. along S. slope in brush to cor.
13.55	To cor. No. 6. Point falls on a granite boulder in place showing $5 \times 2 \times 2$ ft. above ground. I chisel boulder + at the point and 6 - H E S 430 on SW. face; and raise a mound of stone 3 ft. base, 2 ft. high SW. of cor., whence: A juniper, 10 ins. dia., bears S. $56^{\circ} 48'$ E., 68 lks. dist., scribed 6 H E S 430 + B T. A mesquite, 10 ins. dia., bears N. $72^{\circ} 30'$ W., 67 lks. dist., scribed 6 H E S 430 + B T.
	Thence S. $2^{\circ} 48'$ E. Descend steep slope 25 ft. to ravine.
5.50	Ravine, course WNW. Ascend 65 ft. to ridge.
9.00	Top ridge, bears E. and W. Descend 50 ft. to ravine.
9.30	Ravine, course WNW. Ascend 110 ft. to sharp ridge.
11.15	Top ridge, bears E. and W. Descend 130 ft.
13.45	Leave unlisted and enter listed land. Cor. H-5 of the list survey, a granite stone $18 \times 12 \times 10$ ins., bears S. $53^{\circ} 30'$ E., 3.75 chs. dist. I destroy all trace of this list cor.

Chains

14.75 Foot descent. Ascend 40 ft. to cor. along foot of W. slope.

23.30 To cor. No. 7.

Deposit a granite stone 5 x 2 x 2 ins. marked with a + 14 ins. in the ground, over which set a granite stone 24 x 18 x 6 ins., chiseled + for the point and 7 - H E S 430 on W. face; and raise a mound of stone 3 ft. base, 2 ft. high W. of cor., whence:

A mesquite, 5 ins. dia., bears N. 27° 25' E., 76 lks. dist., scribed 7 H E S 430 + B T.

A mesquite, 5 ins. dia., bears N. 73° 38' W., 111 lks. dist., scribed 7 H E S 430 + B T.

Cor. H-6 of the list survey, which is a granite stone 3 x 2 x 2 ft. above ground, marked and witnessed as described by the Forest Service, bears S. 31° 55' W., 7.20 chs. dist. I destroy all trace of this list cor.

Thence S. 37° 58' W.

Descend 40 ft. in brush along foot NW. slope to arroyo.

6.10 Brush fence bears NW: and SE.

6.90 Arroyo, 30 lks. wide, 10 ft. deep, course NW. Ascend 50 ft. in brush to ridge.

9.20 Leave listed and enter unlisted land.

9.30 Top ridge, bears NW. and SE. Descend 20 ft. to arroyo, Ascend 10 ft. to creek bank.

11.20 Arroyo, 20 lks. wide, 10 ft. deep, course NW.

13.40 East bank Pinto Creek, 30 ft. high, bears N.

15.00 Leave Pinto Creek, 100 lks. wide, course NNW. and scend 50 ft. to ridge.

18.20 Top ridge, descend 30 ft. to ravine.

20.15 Ravine, course NW. Ascend 50 ft. in brush to cor.

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

CROOK NATIONAL FOREST

STATE OF ARIZONA

Chains

AREA

Area of listed land - - - - - 44.04 acres  
 Area of unlisted land - - - - - 7.36 acres  
 Total Area - - - - - 51.40 acres

IMPROVEMENTS

The improvements made upon this claim consist of the following:

An adobe house, 18 x 12 ft., the long side of which bears E. and W., and the NE. cor. of which bears N.15° 33' E. 12.10 chs. dist. from cor. No. 1.

Value - - - - - \$ 30.00

A stone and adobe house, 18 x 16 ft., the long side of which bears N. and S., and the SE. cor. of which bears S. 86° 19' W., 145 lks. dist. from cor. No. 2.  
 House is in poor condition.

Value - - - - - \$30.00

There is approximately 1/2 mile of brush fence.

Value - - - - - \$15.00

There are approximately 10 acres in cultivation.

DESCRIPTION

This claim is situated on Pinto Creek, approximately 1/2 mile above the box at an elevation of 3000 ft. The arable land is confined to small flats along creek, comprising about 1/4 of the acreage. The remainder is rough rocky hill land, suitable for pasture only. The soil in bottom land is a rich black loam, which at time of survey was producing good crops of vegetables and garden products. The soil on steep slopes is shallow or entirely absent.

The timber consists of mesquite and oak brush, valuable only for fire wood.

Pinto Creek furnishes sufficient water for both irrigation and domestic use.

HOMESTEAD ENTRY SURVEY NO. 430

CROOK NATIONAL FOREST

STATE OF ARIZONA

Chains

I saw no indications of mineral upon the claim.

CONFLICTS AND ADJOINING CLAIMS

There are no conflicting or adjoining claims.

Kirby, Arizona, the nearest post office is 8 miles dist. by trail. Globe, Arizona, the nearest railroad point, is 24 miles dist. by trail and road. H. E. S. 431 S. of Pedro Moraga lies approximately 2-1/2 miles to South. H. E. S. No. 147 on the Tonto National Forest lies approximately 2 miles in a Northwesterly direction.

TRAVERSE

Cor.	Course	Dist.	N.	S	E	W
1-2	N. 82° 57' W.	7.64	0.94			7.58
2-3	S. 83° 40' W.	6.00		0.66		5.96
3-4	N. 43° 45' E.	18.49	13.36		12.79	
4-5	N. 0° 17' E.	23.92	23.92		0.12	
5-6	N. 76° 21' E.	13.55	3.20		13.17	
6-7	S. 2° 48' E.	23.30		23.27	1.14	
7-1	S. 37° 58' W.	22.22		17.52		13.67
		115.12	41.42	41.45	27.20	27.21
				41.42		27.20
	Error in Lat. and Dep.			.03		.01

Closing error, 1:3640

Survey completed April 11, 1916.

The listing survey locates this claim in Sec. 6, T. 2 N., R. 14 E., which location is thought to be in error, by reason of the more accurate location of U. S. L. M. No. 430 H. E. S., to which this claim is tied.

*R. J. Johnson*

Surveyor - Draftsman

HOMESTEAD ENTRY SURVEY NO. 430

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CROOK NATIONAL FOREST

STATE OF ARIZONA

Chains

Direct solar at cor. No. 1, H. E. S. 430, April 10, 1916.

Lat.  $33^{\circ} 32' 30''$  N., Long.  $110^{\circ} 59' 30''$  W.

Decl.  $8^{\circ} 06' 03''$

Telescope	Time	Horizontal Angle	Vertical Angle	Pos. Sun
Direct	4h.34m.20s.	$81^{\circ} 31' 30''$	$27^{\circ} 09' 00''$	$^{\circ}+$
Reverse	4h.35m.14s.	$81^{\circ} 04' 00''$	$27^{\circ} 28' 00''$	$+^{\circ}$
	4h.34m.47s.	$81^{\circ} 17' 45''$	$27^{\circ} 18' 30''$	
			$01' 40''$	
			$27^{\circ} 16' 50''$	

$$\text{Cos. } Q. = \frac{\sin. 8^{\circ} 06' 03''}{\cos. 33^{\circ} 32' 30'' \times \cos. 27^{\circ} 16' 50''} - \frac{\tan. 33^{\circ} 32' 30'' \times \tan. 27^{\circ} 16' 50''}{1}$$

$$\begin{aligned} \log. \sin. 8^{\circ} 06' 03'' &= 9.148959 \\ \log. \cos. 33^{\circ} 32' 30'' &= 9.920897 \\ \log. \cos. 27^{\circ} 16' 50'' &= 9.948791 \\ \hline &9.279271 = -.19023 \end{aligned}$$

$$\begin{aligned} \log. \tan. 33^{\circ} 32' 30'' &= 9.821469 \\ \log. \tan. 27^{\circ} 16' 50'' &= 9.712405 \\ \hline &9.533874 = +.34188 \\ \text{Cos. } Q &= .15165 \end{aligned}$$

$$Q = 81^{\circ} 16' 39''$$

Bearing of reference object,  $81^{\circ} 16' 39''$  W.

Difference in meridians  $0^{\circ} 01' 06''$ .

HOMESTEAD ENTRY SURVEY NO. 101

NATIONAL FOREST

STATE OF

Chains

Direct distance between points  
 1. 100.00  
 2. 100.00  
 3. 100.00  
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 100. 100.00

DIRECTIONS.—1. Carry out calculation 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. 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. 430, STATE OF ARIZONA.

CORNERS.	BEARING.	DISTANCE.	LATITUDES.		DEPARTURES.		DOUBLE M. D.		N. AREAS.	S. AREAS.
			NORTH.	SOUTH.	EAST.	WEST.				
1-2	N. 82° 57' W.	7.64	0 94			7 58	19 50	18 33		
2-3	S. 83° 40' W.	6.00		0 66		5 26	5 26		3 93	
3-4	N. 43° 45' E.	18.49	13 36		12 79		12 79	170 87		
4-5	N. 0° 17' E.	23.92	23 92		0 12		25 69	614 76		
5-6	N. 76° 21' E.	13.55	3 20		13 17		38 97	124 70		
6-7	S. 2° 48' E.	23.30		23 27	1 14		53 28		1239 29	
7-1	S. 37° 58' W.	22.22		17 52		13 67	40 75		713 53	
		115.12	41 42	41 45	27 22	27 21		928 66	1956 75	
			41 43	41 43	27 21	27 21			928 66	
									1928 09	
									51 40 Acres.	

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Count

APPROVAL

Office of the United States Surveyor General,

Phoenix, Arizona, November 9, 1918

The foregoing field notes of Homestead Entry Survey No.

430

executed by R. P. A. Johnson, Surveyor-Draftsman  
[Forest Service Title.]  
under his special instructions, dated December 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.

*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.