

U. S. DEPARTMENT OF AGRICULTURE
FOREST SERVICE

151
MAY-2 1918 SEP-4-1917

FIELD NOTES

OF

HOMESTEAD ENTRY SURVEY NO. 471

SITUATED IN THE **PRESCOTT** NATIONAL FOREST

ADMINISTRATIVE DISTRICT NO. 3

In Section **23**, unsurveyed, Township 11 N., Range 1 E.

of the

Gila and Salt River Base & Meridian.

State of

ARIZONA

Applicant for listing **Fred J. Cordes,**
Residence **Turkey, Arizona**
Application No. **268**, dated **June 8**, 1915
List No. **3-3693**, dated **November 19**, 1915

Applicant for survey **Fred J. Cordes,**
Residence **Turkey, Arizona**
H. E. No. **029903**, dated **April 29**, 1916
Office
Land ~~District~~ **Phoenix, Arizona**

Survey executed by **R. P. A. Johnson,** Surveyor - **Draftsman**
[Forest Service Title.]
Under special instructions dated **May 17**, 1916
Survey commenced **May 6**, 1917
Survey completed **May 7**, 1917
Under Acts of **June 11, 1906 and August 11, 1916**

15201

OATH OF ASSISTANTS

We hereby certify that we assisted

R. P. A. Johnson
Surveyor Draftsman in surveying all those
[Forest Service Title.]

parts or portions of Homestead Entry Survey No. *471*, 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.

Chas Robinson, Chairman

John E Adams, Chairman

Subscribed and sworn to before me this

fourth day of
June, 19*17*.

R. P. A. Johnson
Surveyor Draftsman

OATH OF SURVEYOR

I,

R. P. 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 *May 17*, 19*16*, 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*

Dist Patent, No. *3-3693* dated *November 19*, 19*15*, for *June 11*, 19*06*, under the Act of *June 11*, 19*06*, the same to be known as Homestead Entry Survey No. *471*, situated within the **PRESCOTT** National Forest, in *10* surveyed Section *23*, Township *11N*, Range *1E*, and *-* surveyed Section *- - -*, Township *- - -*, Range *- - - -*,

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.

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

Subscribed and sworn to before me this

26th day of
July, 19*17*.

Ethel M. Gutchall
Notary Public



My Commission expires Mar. 17 1924
8-2349

PRESCOTT NATIONAL FOREST

STATE OF ARIZONA

Chains Applicant for Listing, Fred J. Cordes; Application No. 268, dated June 8, 1915; List No. 3-3693, dated November 19, 1915; H. E. 029903, made in the Phoenix Land Office on April 29, 1916 by Fred J. Cordes.

Surveyed under special instructions from the Surveyor General for Arizona, dated May 17, 1916 and designated as Homestead Entry Survey No. 471.

Situated in what will probably be, when surveyed, Sec. 23, T. 11 N., R. 1 E., Gila and Salt River Base and Meridian within the Prescott National Forest, Arizona.

Surveyed under the Acts of June 11, 1906 and August 11, 1916.

Survey commenced May 6, 1917 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.

May 6, 1917.

I observe the altitude of the sun for azimuth at cor. No. 1, hereinafter described. The reading on the reference object is set at zero and the sun was observed in the lower left and upper right quadrants of the field. My watch is set for local mean time.

Lat. 34° 17' N., Long. 112° 13' 30" W., from Bradshaw Mountain Quadrangle of U. S. G. S.

PRESCOTT NATIONAL FOREST

STATE OF ARIZONA

Chains	Telescope	Time	Horizontal Angle	Vertical Angle
	Direct	8h. 03m. 20s.	85° 25' 00"	36° 36' 30"
	Reversed	8h. 04m. 15s.	85° 54' 30"	36° 15' 00"

Bearing of reference object, N. 0° 00' 49" E.

May 7, 1917.

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

Telescope	Time	Horizontal Angle	Vertical Angle
Direct	4h. 43m. 10s.	84° 07' 30"	22° 19' 00"
Reversed	4h. 44m. 00s.	84° 35' 00"	24° 40' 30"

Bearing of reference object, N. 0° 00' 24" W.

The mean of the two observations is N. 0° 00' 13" E. and to the corresponding meridian all the courses of this survey are referred.

RETRACEMENT

May 6, 1917.

From cor. No. 1 H. E. S. 355, which is a granite stone

8 x 6 x 10 ins. above ground, marked 1 - H. E. S. 355 on

W. face, with mound of stone 3 ft. base, 2 ft. high W.

of cor.

Thence S. 54° 08' W.

On random line 1-2 of H. E. S. 355.

13.72 Fall 1-1/2 lks. to the right of cor. No. 2 H. E. S. 355,

which is a granite stone 16 x 14 x 10 ins. above ground,

marked 2 - H. E. S. 355 on NE. face, with mound of stone

3 ft. base, 2 ft. high NE. of cor.

Return course N. 54° 05' E., 13.72 chs.

PRESCOTT NATIONAL FOREST

STATE OF ARIZONA

Chains

BOUNDARIES OF CLAIM

Beginning at cor. No. 1. Identical with cor. H-3 of the list survey, which is a mica schist stone 12 x 12 x 6 ins. above ground, marked and witnessed as described by the Forest Service. I destroy all trace of this list cor. Deposit a mica schist stone 5 x 5 x 3 ins. marked with a +, 15 ins. in the ground, over which set a mica schist stone 25 x 10 x 6 ins., chiseled + for the point and 1 - H E S 471 on W. face; and raise a mound of stone 3 ft. base, 2 ft. high W. of cor.

No witnesses available. Pits impracticable.

U. S. L. M. No. 1913 on South end Townsend Peak, which is a schist stone 12 x 16 ins. flush with the ground, marked and witnessed as described by the Surveyor General, bears S. 47° 14' 11" E., 65.05 chs. dist., by traverse which appears at the end of these notes.

Cor. to Ts. 10 and 11 N., R. 2 E. (survey awaiting approval) which is an iron post 2 ins. dia., marked T 11 N R 2 E S 31 on NE. quadrant and S 6 T 10 N on SE. quadrant, bears S. 82° 46' 38" E., 101.09 chs. dist., by traverse which appears at the end of these notes.

Lat. 34° 17' N., Long. 112° 15' 30" W., from Bradshaw

Mountain Quadrangle, U. S. G. S.

Mag. decl. at 8:00 a.m. 13° 50' E. Mean mag. decl., 13° 47' E.

May 6, 1917

May 7, 1917.

Thence S. 76° 43' W.

Descend 30 ft. in brush to arroyo.

1.05 Arroyo, 5 lks. wide, banks 1 ft. high, course NNW.

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Chains	Ascend 10 ft. to point of hill.
1.75	Point of hill bears NNE. and SSW. Descend 10 ft. to arroyo.
2.60	Arroyo, 10 lks. wide, banks 1 ft. high, course NE. Ascend steep slope 35 ft. in scattered brush to edge of bench.
4.95	Top of steep slope and edge of bench bears N. and S. Ascend 15 ft. in open to cor.
7.07	To cor. No. 2. Identical with cor. H-4 of the list survey, which is a mica schist stone 12 x 6 x 10 ins. above ground, marked and witnessed as described by the Forest Service. I destroy all trace of this list cor. Deposit a mica schist stone 4 x 3 x 2 ins. marked with a +, 14 ins. in the ground, over which set a mica schist stone 24 x 12 x 6 ins., chiseled + for the point and 2 - H E S 471 on NE. face; and raise a mound of stone 3 ft. base, 2 ft. high NE. of cor., whence: A juniper, 6 ins. dia., bears N. 43° 20' E., 101 lks. dist., scribed 2 H E S 471 + B T. No other witness available. Pits impracticable.
<hr/>	
	Thence N. 35° 29' W.
	Descend NE. slope in brush 50 ft. to creek.
6.30	Road bears E. and W.
7.62	Right bank Turkey Creek, 4 ft. high. Enter running water 1 ft. deep, course SE.
8.47	Leave running water.
9.73	Left bank Turkey Creek, 3 ft. high, bears NW. and SE. Thence over level bottom land in heavy brush to cor.
16.92	To cor. No. 3. Deposit a granite stone 8 x 5 x 3 ins. marked with a +, 14 ins. in the ground, over which set a granite stone 24 x 13 x 12 ins., chiseled + for the point and

Chains

3 - H E S 471 on E. face; and raise a mound of stone 3 ft. base, 2 ft. high E. of cor., whence:

A cottonwood, 12 ins. dia., bears S. 66° 57' E., 14 lks. dist., scribed 3 H E S 471 + B T.

A cottonwood, 26 ins. dia., bears N. 87° 27' W., 30 lks. dist., scribed 3 H E S 471 + B T.

A cottonwood, 20 ins. dia., bears N. 49° 30' E., 3 lks. dist., scribed 3 H E S 471 + B T.

Cor. H-1 of the list survey, which is a granite stone 12 x 6 x 10 ins. above ground, marked

and witnessed as described by the Forest Service, bears S. 35° 29' E., 4 lks. dist. I de-

stroy all trace of this list cor.

Cor. No. 2 of H. E. S. 355, heretofore described, bears S. 54° 05' E., 8.75 chs. dist.

Thence N. 54° 05' E.

Along line 2-1 of H. E. S. 355, over level bottom land.

0.30 Fence cor., fence bears SE. and along line.

3.37 Fence cor., fence bears SE. Leave fence and ascend open SW. slope 30 ft. to cor.

4.97 Cor. No. 1, H. E. S. 355, heretofore described.

7.82 To cor. No. 4.

Identical with cor. H-2 of the list survey, which is a quartz stone 18 x 8 x 10 ins. above ground, marked and

witnessed as described by the Forest Service. I de-

stroy all trace of this list cor. Deposit a quartz stone 4 x 4 x 2 ins. marked with a +, 14 ins. in the

ground, over which set a quartz stone 24 x 12 x 12 ins. chiseled + for the point and 4 - H E S 471 on S. face;

and raise a mound of stone 3 ft. base, 2 ft. high S. of cor., whence:

A + on a quartz boulder in place, 22 x 10 x 11

Chains
 ins. above ground, chiseled B R 4 H E S 471,
 bears N. 17° 31' E., 48 lks. dist.
 No other witnesses available. Pits impracti-
 cable.
 Thence S. 31° 45' E.
 Descend gradual SE. slope 35 ft. to creek in scattered
 brush.
 1.05 Fence bears NE. and SW.
 2.52 Fence bears NE. and SW.
 17.20 Fence, bears NW. and SE.
 17.56 Left bank Turkey Creek, 4 ft. high, running water 1 ft.
 deep, course E.
 18.07 Right bank Turkey Creek, 4 ft. high. Leave running
 water. Ascend 35 ft. to cor. in brush.
 19.68 To cor. No. 1, the place of beginning.

AREA

Total Area --- 13.21 acres

IMPROVEMENTS

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

A frame residence, 36 x 21 ft., the long side of which
bears NW. and SE. and the N. cor. of which bears S. 16°
56' E., 11.30 chs. dist. from cor. No. 4.

Value ----- \$250.00

A frame barn and stable, 24 x 21 ft., the long side of
which bears NE. and SW. and the N. cor. of which bears
S. 27° 35' E., 11.00 chs. dist. from cor. No. 4.

Value ----- \$200.00

A log frame branding house, 15 x 9 ft., the long side of
which bears NW. and SE. and the N. cor. of which bears
S. 4° 12' W., 6.45 chs. dist. from cor. No. 4.

Value ----- \$ 75.00

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Chains	<p>An iron tank, 6 ft. high, 4 ft. dia., with gas engine and pump, bears S. 14° 28' E., 10.75 chs. dist. from cor. No. 4.</p> <p style="text-align: right;">Value ----- \$500.00</p> <p>A double outhouse, one adobe and one galvanized iron, each 18 x 14 ft., the long sides of which bear NW. and SE. and the N. cor. of which bears S. 19° 39' E., 18.50 chs. dist. from cor. No. 4.</p> <p style="text-align: right;">Value ----- \$150.00</p> <p>A galvanized iron harness house, 10 x 8 ft., the long side of which bears NW. and SE. and the N. cor. of which bears S. 21° 41' E., 12.90 chs. dist. from cor. No. 4.</p> <p style="text-align: right;">Value ----- \$50.00</p> <p>A frame chicken house, 8 x 6 ft., the long side of which bears NW. and SE. and the N. cor. of which bears N. 42° 05' W., 8.65 chs. dist. from cor. No. 1.</p> <p style="text-align: right;">Value ----- \$25.00</p> <p>A stone cellar and dugout, in fair condition, 16 x 14 ft., the long side of which bears NE. and SW. and the S. cor. of which bears N. 57° W., 9.50 chs. dist. from cor. No. 1.</p> <p style="text-align: right;">Value ----- \$ 25.00</p> <p>A frame shop, 10 x 10 ft., the sides of which bear NW. and SE. and the N. cor. of which bears N. 37° 20' W., 9.70 chs. dist. from cor. No. 1.</p> <p style="text-align: right;">Value ----- \$ 25.00</p> <p>There is approximately 1/2 mile of wire fence.</p> <p style="text-align: right;">Value ----- \$ 50.00</p>
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DESCRIPTION

This tract lies along Turkey Creek at an elevation of 3800 ft. and consists of bottom land along the creek, steep hillsides South of creek, and portion of low ridge with gentle gradual slope, NE. of bottom land.

Chains The soil consists of sandy loam in bottom land and along ridge, fertile, of good depth and produces good crops. On steep hillsides soil is shallow, rocky and non-tillable. The cover consists of mesquit, catclaw, willow, cottonwood and oak brush, and covers all but portion in cultivation. There is no merchantable timber. Water for irrigation is pumped from well and diverted from Turkey Creek. Water for domestic use is obtained from well. There are approximately 3 acres in cultivation. This claim is in a mineralized section of country, but I saw no evidence of mineral upon the claim.

CONFLICTS AND ADJOINING CLAIMS

There are no conflicts. H. E. S. 355 of Clyde Douglas joins this claim on the N. Turkey, Arizona, the nearest post office and railroad station, is 1-1/2 miles dist. by fair wagon road.

TRAVERSE

Cor.	Course	Dist.	N	S	E	W
1-2	S. 76° 43' W.	7.07		1.62		6.88
2-3	N. 35° 29' W.	16.92	13.78			9.82
3-4	N. 54° 05' E.	7.82	4.59		6.33	
4-1	S. 31° 45' E.	19.68		16.73	10.36	
		51.49	18.37	18.35	16.69	16.70
			18.35			16.69
Error in Lat. and Dep.			.02			.01

Closing error, 1:2303.

Survey completed May 7, 1917.

R. L. Johnson
Surveyor - Draftsman

Chains

Direct Solar, at cor. No. 1, May 6, 1917.

Lat. 34° 17' N., Long. 112° 13' 30"W. Elev. 3800 ft.

Telescope	Time	Horizontal Angle	Vertical Angle	Pos. Sun
Direct	8h. 03m. 20s.	85° 25' 00"	36° 36' 30"	+
Reversed	8h. 04m. 15s.	85° 54' 30"	36° 15' 00"	+
	8h. 03m. 47s.	85° 39' 45"	36° 25' 45"	
			01' 09"	
			36° 24' 36"	

Decl., 16° 29' 34" N.

$$\text{Cos. Q.} = \frac{\sin. 16^\circ 29' 34''}{\cos. 34^\circ 17' \times \cos. 36^\circ 24' 36''} - \frac{\tan. 34^\circ 17' \times \tan. 36^\circ 24' 36''}{\tan. 34^\circ 17' \times \tan. 36^\circ 24' 36''}$$

log. sin. 16° 29' 34" = 9.453157
 log. cos. 34° 17' 00" = 9.917118
 log. cos. 36° 24' 36" = 9.905682
9.630357 = log. .42693

log. tan. 34° 17' 00" = 9.833611
 log. tan. 36° 24' 36" = 9.867781
9.701392 = log. .50280

Cos. Q. = .07587
 Q. = 85° 38' 56"

Bearing of reference object, N. 0° 00' 49" E.

(2)

May 7, 1917.

Telescope	Time	Horizontal Angle	Vertical Angle	Pos. Sun
Direct	4h. 43m. 10s.	84° 07' 30"	22° 19' 00"	+
Reversed	4h. 44m. 00s.	84° 35' 00"	22° 40' 30"	+
	4h. 43m. 35s.	84° 21' 15"	22° 29' 45"	
			02' 02"	
			22° 27' 43"	

Decl., 16° 52' 22" N.

$$\text{Cos. Q.} = \frac{\sin. 16^\circ 52' 22''}{\cos. 34^\circ 17' \times \cos. 22^\circ 27' 43''} - \frac{\tan. 34^\circ 17' \times \tan. 22^\circ 27' 43''}{\tan. 34^\circ 17' \times \tan. 22^\circ 27' 43''}$$

log. sin. 16° 52' 22" = 9.462768
 log. cos. 34° 17' 00" = 9.917118
 log. cos. 22° 27' 43" = 9.965735
9.579915 = log. .38011

log. tan. 34° 17' 00" = 9.833611
 log. tan. 22° 27' 43" = 9.616407
9.450018 = log. .28185

Cos. Q. = .09826
 Q. = 84° 21' 39"

Bearing of reference object, N. 0° 00' 24" W.

ET

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STATE OF ARIZONA

Chains

Direct Solar, at cor. No. 1, May 6, 1917.

Lat. 34° 17' N., Long. 112° 13' 30" W. Elev. 3800 ft.

Telescope Time Horizontal Angle Vertical Angle Pos. Sun

Direct 8m. 05m. 80s. 85° 25' 00" 32° 28' 30" +

Reversed 8m. 04m. 10s. 85° 24' 30" 32° 15' 00" +

8m. 05m. 47s. 85° 25' 45" 32° 28' 45"

01' 03"

32° 24' 30"

Decl., 16° 29' 24" N.

Cor. C. = $\frac{\sin. 16^\circ 29' 24''}{\cos. 34^\circ 17' 00'' \times \cos. 32^\circ 24' 30''}$

$\frac{\sin. 16^\circ 29' 24''}{\cos. 34^\circ 17' 00'' \times \cos. 32^\circ 24' 30''}$

log. sin. 16° 29' 24" = 9.453187

log. cos. 34° 17' 00" = 9.91718

log. cos. 32° 24' 30" = 9.92582

log. tan. 34° 17' 00" = 9.833211

log. tan. 32° 24' 30" = 9.867781

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log. tan. 34° 17' 00" = 9.833211

log. tan. 32° 24' 30" = 9.867781

Bearing of reference object, N. 0° 00' 24" W.

(2)

Bearing of reference object, N. 0° 00' 49" N.

Cor. C. =

9. = 85° 28' 28"

0.07587

log. tan. 32° 24' 30" = 9.867781

log. tan. 34° 17' 00" = 9.833211

log. cos. 32° 24' 30" = 9.92582

log. cos. 34° 17' 00" = 9.91718

log. sin. 16° 29' 24" = 9.453187

Cor. C. =

Decl., 16° 29' 24" N.

32° 24' 30"

01' 03"

Reversed 8m. 04m. 10s. 85° 24' 30" 32° 15' 00" +

Direct 8m. 05m. 80s. 85° 25' 00" 32° 28' 30" +

Telescope Time Horizontal Angle Vertical Angle Pos. Sun

Lat. 34° 17' N., Long. 112° 13' 30" W. Elev. 3800 ft.

Direct Solar, at cor. No. 1, May 6, 1917.

Chains

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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. I. 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. 471, STATE OF ARIZONA.

CORNERS.	BEARING.	DISTANCE.	LATITUDES.		DEPARTURES.		DOUBLE M. D.	N. AREAS.	S. AREAS.
			NORTH.	SOUTH.	EAST.	WEST.			
		Tie from cor. No. 1 to 1/4 sec. cor. bet. secs. 6 and 51.						Cor. Ts. 10 & 11 N, R 2 E.	
	N. 31° 45' W.	19.68	16.73			10.36			
	S. 54° 05' W.	2.85		1.67		2.31			
	S. 86° 23' E.	47.58		3.00	47.49				
	S. 76° 06' E.	61.51		14.78	59.71				
	S. 22° 59' E.	11.53		9.99	5.76				
			16.73	29.44	112.96	12.67			
				16.73	12.67				
	S 82° 46' 38" E.	101.09		12.71	100.29				
							ET		

APPROVAL

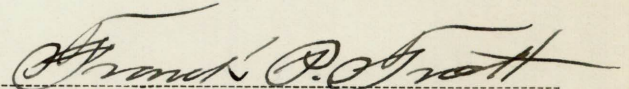
Office of the United States Surveyor General,

Phoenix, Arizona, June 28, 1918

The foregoing field notes of Homestead Entry Survey No.

471

executed by R. P. A. Johnson, Surveyor-Draftsman
[Forest Service Title.]
under his special instructions, dated May 17, 1916, 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.