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U. S. DEPARTMENT OF AGRICULTURE
FOREST SERVICE

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Index card

1

FIELD NOTES

OF

EXCHANGE

~~HOMESTEAD EXCHANGE~~ SURVEY NO. 676

SITUATED IN THE COCONINO NATIONAL FOREST

ADMINISTRATIVE DISTRICT NO.

In Section 14 Township 21 N. , Range 9 E.

of the

Gila & Salt River Base Meridian

State of Arizona

State of

Applicant for ~~listing~~ exchange - AT&SF Railroad Company

Residence

Application No. , dated , 19

List No. , dated , 19

Applicant for survey

Residence

H. E. No. , dated , 19

Land Office

Survey executed by Aaron F. Jones

Civil Engineer
[Forest Service Title.]

Under special instructions dated April 23 , 1947

Survey commenced June 4 , 1947

Survey completed June 17 , 1947

Under Acts of 3/20/22 and 7/12/43

OATH OF ASSISTANTS

We hereby certify that we assisted **Aaron F. Jones**
Civil Engineer in surveying all those
[Forest Service Title.]
 Exchange
 parts or portions of ~~Homestead Entry~~ Survey No. **676**, 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

x *Robert W. Schneider*
Arville E. Wesley
Oscar F. Hechtung

Subscribed and sworn to before me this **22nd** day of
July, 1947

Joseph M. Lucero
 Joseph M. Lucero
 Notary Public

My commission expires Dec. 16, 1949.

OATH OF SURVEYOR

I, **Aaron F. Jones** **Civil Engineer**
[Forest Service Title.]

do solemnly swear that, in strict conformity with the special instruc-
 tions of the ~~United States Surveyor General~~ **Public Survey Office** for **Arizona**, dated
April 23, 19**47**, 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
 Exchange, under the Act of _____, 19____,
 the same to be known as ~~Homestead Entry~~ Survey No. **676**,
 situated within the **Coconino** National Forest, in
 surveyed Section **14**, Township **21 N.**, Range **9 E.**, and
 surveyed Section _____, Township _____, Range _____,

of the **Gila & Salt River Base &** meridian, _____, 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.

Aaron F. Jones
 Civil Engineer
[Forest Service Title.]

Subscribed and sworn to before me this **4th** day of
August, 1947

Wanna Rauldige
 Notary Public



8-2349

MY COMMISSION EXPIRES JANUARY 14, 1953

COCONINO NATIONAL FOREST

STATE OF ARIZONA

Chains

Survey executed with Buff and Buff Transit No. 14631. The adjustments of the transit were tested and necessary corrections made before beginning the survey.

The measurements were made with a 3-chain steel tape, graduated every link, and tested by comparison with a standard and found to be correct. The measurements were made on the slope, the vertical angles being determined by a clinometer in good adjustment; the field notes show the horizontal equivalents.

As determined from U.S.F.S. base map, the geographic position of the corner of Secs. 14, 15, 22 and 23, T. 21 N., R. 9 E. is as follows: latitude $35^{\circ} 11' 40''$ N., and longitude $111^{\circ} 25' 06''$ W.

June 9, 1947; near above corner I make a series of three altitude observations on the sun for azimuth, as follows:

Telescope	Sun	M. S. T. Watch Time	Vertical Angle	Horizontal Angle Flag to Sun
-----------	-----	------------------------	-------------------	---------------------------------

1st observation:

Direct	☉	4h 11m 26s	$39^{\circ} 34' 00''$	$0^{\circ} 26' \text{ Right}$
Reversed	☽	4h 13m 00s	$39^{\circ} 47' 00''$	$359^{\circ} 58' 30''$
Mean		4h 12m 13s	$39^{\circ} 40' 30''$	$0^{\circ} 12' 15''$

2nd observation:

Direct	☉	4h 16m 01s	$38^{\circ} 37' 30''$	$1^{\circ} 04' 00''$
Reversed	☽	4h 17m 39s	$39^{\circ} 49' 00''$	$0^{\circ} 36' 00''$
Mean		4h 16m 50s	$38^{\circ} 43' 15''$	$0^{\circ} 50' 00''$

3rd observation:

Direct	☉	4h 19m 43s	$37^{\circ} 53' 00''$	$1^{\circ} 34' 00''$
Reversed	☽	4h 21m 09s	$38^{\circ} 07' 00''$	$1^{\circ} 06' 00''$
Mean		4h 20' 26"	$38^{\circ} 00' 00''$	$1^{\circ} 20' 00''$

By first observation flag bears N. $88^{\circ} 13' 34''$ W.

By second observation flag bears N. $88^{\circ} 12' 40''$ W.

By third observation flag bears N. $88^{\circ} 13' 53''$ W.

Mean true bearing of flag N. $88^{\circ} 13' 22''$ W.

June 12, 1947, near the center of Sec. 14, I make an hour angle observation of Polaris west of the meridian, two readings each with telescope in direct and reversed positions, and measure the horizontal angle from a flag about 40 chains dist. in the direction right to Polaris.

Mean watch time of observation	8h 06m 42s (PM) M.S.T.
Mean horizontal angle	$269^{\circ} 39' 00''$ (Right)
Reduced azimuth of Polaris	$0^{\circ} 13' 20''$ W.
Reduced bearing of flag	S. $89^{\circ} 52' 20''$ E.

Watch was checked with Western Union at Flagstaff prior to the observations. Watch fast of local mean time by computed difference in longitude. 0h 25m 40.4s.

From the meridians thus established the azimuth is carried forward by deflection angles, throughout the survey.

The indicated discrepancy between the two sets of observations is $0^{\circ} 0'$.

The observed magnetic declination is $14^{\circ} 45'$ E.

EXCHANGE
HOMESTEAD ENTRY SURVEY NO. 676

COCONINO NATIONAL FOREST

STATE OF ARIZONA

2.

Chains

Resurvey of Section Lines T. 21 N., R. 9 E.

Reestablishment of the survey executed by Caudle and Caudle in 1902

Preliminary to the resurvey, the lines of the original survey were retraced and diligent search was made for all old corners. The retracement data were thoroughly verified and only the true line field notes are given herein.

The point for corner of Secs. 14, 15, 22 and 23 falls in south edge of a road which runs through a cultivated field. No evidence could be found of the original corner monument, nor could its original position be determined by any collateral evidence or testimony of old residents.

At point for corner determined by the method of double proportion

Set an iron pipe, 28 ins. long, 1 in. in diam. vertically in the ground with top 8 ins. below the surface and with some colored glass bottles and the base of a Coleman lantern buried 1 ft. below the lower end of pipe. S. $0^{\circ} 06' E.$, 3 links dist. from corner, set a solid iron pipe $2\frac{1}{2}$ ft. long, 1 in. in diam., 24 ins. in the ground for reference monument, and build a small mound of stone around it.

From the corner of Secs. 14, 15, 22 and 23 the $\frac{1}{4}$ Sec. Cor. between Secs. 22 and 23 bears S. $0^{\circ} 06' E.$, 39.87 chains dist., marked by the original monument, a limestone 10x12 ins., 10 ins. above ground, marked $\frac{1}{4}$ on west face and witnessed as described in the official record.

From the corner of Secs. 14, 15, 22 and 23, the $\frac{1}{4}$ Sec. Cor. of Secs. 15 and 22 bears N. $89^{\circ} 48' W.$, 39.95 chains dist., marked by the original monument, a limestone 12x8 ins., 10 ins. above ground, marked $\frac{1}{4}$ on north face and witnessed as described in the official record.

From the corner of Secs. 14, 15, 22 and 23, S. $89^{\circ} 53' E.$ between Secs. 14 and 23, across open field, parallel to road 5 to 20 links north of line, ascend gradual west slope.

8.27 Bend in road 20 links N, course W and NE.

9.27 Fence corner 17 links N, course E and SE.

Thence along south side of fence, ascending gradual west slope.

19.30 Cross fence, course E, along north side fence, ascending gradual west slope.

25.05 Cross fence, corner 8 links S, course N and W.

26.25 Center of road, course N and S.

28.00 Power line, course N and S, ascend steep west slope of cinder hill through heavy growth of pinon and cedar.

39.91 $\frac{1}{4}$ Sec. Cor., Secs. 14 and 23, marked by the original monument, a malpais stone 8x14 ins., 8 ins. above ground, marked $\frac{1}{4}$ on north face, and witnessed by the original bearing trees as follows:

a pinon 13 ins. in diam. bears N. $26^{\circ} 55' E.$, 61 links dist., marked $\frac{1}{4}$ S 14 BT

a pinon 11 ins. in diam. bears S. $5^{\circ} 30' E.$, 31 links dist., marked $\frac{1}{4}$ S 23 BT

COCONINO NATIONAL FOREST

STATE OF ARIZONA

Chains	From the corner of Secs. 14, 15, 22 and 23, N. 0° 09' W. between Secs. 14 and 15, across open field. Ascend gradual S slope.												
9.01	Fence corner 50 links W, bears W. and NE, ascend S slope.												
12.00	Enter moderate growth of pinon and cedar timber. Old blazed tree 12 links W of line. Across rocky ground, ascending S slope.												
15.00	Top of ridge, bears NE and SW, across rocky ground, through moderate growth of pinon and cedar, descending gradual N slope.												
17.60	Edge of steep NW slope and rim rock. Leave timber, descend steep NW slope across rocky ground. Drain 170 links W, course N.												
20.00	Along W slope hill. Drain 100 links W, course N, descend NW gradual slope.												
29.08	Top of earth dam 10 ft. high, 60 links W of E end and 200 links E of W end.												
32.00	Along W slope hill. Drain 170 links W, course N, ascend gradual S slope.												
33.00	Enter timber. Ascend steep S slope.												
35.00	Edge of rim rock, top of slope. Drain 200 links W, course NW, descend N slope.												
36.50	Blazed trees to E and W of line.												
37.00	Cross right-of-way fence.												
37.40	Edge of highway fill.												
38.41	S shoulder of new U. S. Highway 66.												
39.31	N shoulder of new U. S. Highway 66.												
39.87	Point for 1/4 Sec. Cor., Secs. 14 and 15, at proportionate distance. Corner falls in slope of new highway fill.												
	An uprooted tree marked 1/4 S 14 BT is found in drain about 2 chains to N and W but there is no way to determine its original position.												
	Set a wood stake in rock at true point.												
40.67	Set standard U.S.F.S. iron post, 3 ft. long, 1 in. in diam., 24 ins. in ground, for witness monument to 1/4 Sec. Cor., with bronze cap marked:												
	<table style="margin-left: auto; margin-right: auto;"> <tr> <td></td> <td>WC</td> <td></td> </tr> <tr> <td></td> <td>1/4</td> <td></td> </tr> <tr> <td>S 15</td> <td> </td> <td>S 14</td> </tr> <tr> <td></td> <td>1947</td> <td></td> </tr> </table>		WC			1/4		S 15		S 14		1947	
	WC												
	1/4												
S 15		S 14											
	1947												
	from which												
	a pinon 12 ins. in diam. bears S. 17° 37' E., 43 links dist., marked WC 1/4 S 14 BT,												
	a pinon 13 ins. in diam. bears N. 27° 21' W., 287 links dist., marked WC 1/4 S 15 BT,												
	a train rail right-of-way marker 2 1/2 ft. above ground on N side of U. S. Highway 66 bears N. 88° 13' E., 110 links dist.												
40.50	S edge of drain, course NE.												

COCONINO NATIONAL FOREST

STATE OF ARIZONA

4.

Chains	
43.30	N edge of drain. Ascend S slope.
46.37	Pipe line, course NE and SW, across fairly level ground, through scattered pinon and cedar.
48.03	Track road, course NE and SW.
50.23	Track road, course NE and SW.
51.13	Old road, course NE and SW.
53.71	Blazed trees E and W of line.
58.20	Leave timber, descend N slope.
61.39	Cross S right-of-way fence, A.T. & S.F.R.R., descend steep N slope.
62.80	Center line westbound track, A.T. & S.F.R.R., course NW and SE.
63.03	Center line eastbound track, A.T. & S.F.R.R., course NW and SE.
64.70	Cross N right-of-way fence, A.T. & S.F.R.R., across open level country.
68.32	S edge Walnut Canyon, course NE and SW. Descend 14' to bottom of canyon.
70.50	N edge Walnut Canyon, course NE and SW. Ascend 14'. Thence across level ground.
75.82	S edge Walnut Canyon, course NW and SE. Descend 14' to bottom of canyon.
77.32	N edge Walnut Canyon, course NW and SE. Ascend steep slope.
79.74	Corner of Secs. 10, 11, 14 and 15, marked by the original monument, a malpais stone 12x10 ins., 10 ins. above ground, marked with four notches on S and two on E edges.
	N. 89° 58' E, between Secs. 11 and 14 (flag on objective corner visible) over nearly level open land.
2.30	Telephone line, bears SE and NW.
6.58	S edge of U. S. Highway 66, course NW and SE.
7.18	N edge of U. S. Highway 66, course NW and SE.
9.37	Track road, course NW and SE paralleling U. S. Highway 66. Ascend W slope.
13.87	Old road, course NW and SE.
26.00	Enter scattered pinon and cedar timber.
35.10	The point for 1/256 cor. on N bdy. of NE $\frac{1}{4}$ NE $\frac{1}{4}$ NW $\frac{1}{4}$ Sec. 14 and Corner No. 2 of Exchange Survey No. 676, determined by proportionate measurement, hereinafter described.
38.00	Road bears N and S.
39.97	Center line of railway spur bears N and S.
40.12	The point for 1/4 Sec. Cor. of Secs. 11 and 14, as determined from an original bearing tree.

COCONINO NATIONAL FOREST

STATE OF ARIZONA

Chains	Set a standard U.S.F.S. iron post 3 ft. long, 1 in. in diam., 30 ins. in ground, with bronze cap marked
	S11 S14 1947
	from which
	The original bearing tree, a pinon 22 ins. in diam., bears S. 72° E., 213 links dist., marked 1/4 S 14 BT.
	New bearing tree, a pinon 13 ins. in diam., bears N. 47° 28' E., 288 links, marked 1/4 S 11 BT.
	Thence N. 89° 58' E.
3.90	Top of ridge, over level ground.
5.40	Track road, bears N and S.
9.10	Road, bears NE and SW. Ascend gentle W slope.
9.97	Point for 1/64 Sec. Cor. on N bdy. NW 1/4 NE 1/4 Sec. 14 and Corner No. 1 of Exchange Survey No. 676, determined by proportionate measurements.
15.00	Old road, course NE and SW.
18.90	Toe steep W slope. Ascend slope.
25.40	Top of ridge, course N and S. Ancient Indian ruins N and S adjacent to line. Descend E slope.
27.40	Cross head of drain, course S. Ascend steep W slope.
37.90	Top of ridge, bears N and S, across level ground.
39.26	Cross fence, course N and S.
39.89	The corner of Secs. 11, 12, 13 and 14, marked by the original monument, a malpais stone 14x12 ins., 10 ins. above ground, marked with one notch on E and four notches on S face, from which original bearing trees: a cedar stump, 14 ins. in diam., bears N. 26° E., 93 links dist. Some scribe marks visible. a pinon, 12 ins. in diam., bears S. 81° E., 114 links dist., marked T 21 N R 9 E S 13 BT.

Subdivision of Section Lines

Section 14

From the true point for 1/4 Sec. Cor. between Secs. 14 and 15, S. 89° 58' E. on E-W center line.

4.96	Center line of new U. S. Highway 66 (under construction).
9.90	Top of ridge on S edge of deep cut, descend E slope of ridge.
16.00	Enter scattered cedar and pinon, descend E slope.
25.00	Leave timber.
33.90	Edge of S shoulder of new U. S. Highway 66.
35.04	Point for 1/256 Sec. Cor. at proportionate distance. Set temporary corner.

8

COCONINO NATIONAL FOREST

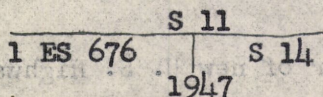
STATE OF ARIZONA

6.7

Chains	
36.88	Centerline of new U. S. Highway 66.
38.90	Edge of N shoulder of new U. S. Highway 66.
40.05	Point for center 1/4 Sec. Cor. at intersection with N-S centerline. Set standard U. S. Forest Service iron post 3 ft. long, 1 in. in diam., 24 ins. in ground, with bronze cap marked C 1/4 S14 1947 From this point a train rail right-of-way marker 2 ft. above ground, on S side of new U. S. Highway 66 bears S. 2° 02' W., 223 links dist. and a train rail right-of-way marker 2 ft. above ground on N side of new U. S. Highway 66 bears N. 39° 47' E., 95 links dist. From the center 1/4 Sec. Cor., the 1/4 Sec. Cor. of Secs. 14 and 23, bears S. 0° 08' E. and the 1/4 Sec. Cor. of Secs. 11 and 14 bears N. 0° 08' W.
43.00	Top of ridge, descend E slope across open country.
47.45	Fence, bears N and S.
50.00	Point for 1/64 Sec. Cor. at proportionate distance, set an iron pipe, 30 ins. long, 1 in. in diam., 24 ins. in ground and raise a mound of stone alongside (not marked), Winona Store 5 chains N.
50.31	Fence, bears N and S.
60.00	Planing mill and lumber ground area. Descend E slope.
63.25	Centerline railway spur, bears SE.
66.22	Centerline railway spur, bears SE and NW.
66.52	Centerline railway spur, bears SE and NW.
66.94	Centerline westbound track, bears SE and NW.
69.28	Centerline old road parallel to railroad. Ascend W slope.
71.58	Railroad right-of-way fence, bears NW and SE. Ascend steep W slope.
74.25	Fence, bears N and S.
79.85	The 1/4 Sec. Cor. of Secs. 13 and 14, marked by the original monument, a malpais stone, 14x12 ins., 14 ins. above ground, marked 1/4 on W face and witnessed as described in the official record.

Survey of Tract

At point for 1/64 Sec. Cor. on N bdy. NW 1/4 NE 1/4 Sec. 14, and Corner No. 1, Exchange Survey No. 676, set a standard U. S. Forest Service iron post, 3 ft. long, 1 in. in diam., 24 ins. in ground, with bronze cap marked



from which

a pinon, 11 ins. in diam., bears S. 5° 33' E., 152 links dist., marked 1 ES 676 BT.

COCONINO NATIONAL FOREST

STATE OF ARIZONA

- Chains a pinon 8 ins. in diam., bears S. 36° 10' W., 411 links dist., marked 1 ES 676 BT.
- S. 89° 58' W., along N bdy. of tract.
- 9.97 The 1/4 Sec. Cor. between Secs. 11 and 14.
- 14.99 The point for 1/256 Sec. Cor. on N bdy. of NE 1/4 NE 1/4 NW 1/4 Sec. 14 and Corner No. 2 of Exchange Survey No. 676.
set a standard U. S. Forest Service iron post, 3 ft. long, 1 ins. in diam., 28 ins. in ground, with bronze cap marked
S 14 | 2 ES 676 from which
a pinon 14 ins. in diam. bears S. 81° 24' E., 169 links dist., marked 2 ES 676 BT
- a pinon 11 ins. in diam., bears S. 17° 36' W., 211 links dist., marked 2 ES 676 BT
- S. 0° 09' E. along W bdy. of tract. Descend over SW slope.
- 1.37 Road, bears NE and SW.
- 15.05 Centerline of U. S. Highway 66, bears NW and SE.
- 24.74 Fence on N side of right-of-way.
- 24.76 Point for Corner No. 3, Exchange Survey No. 676. On N bdy. of A.T.& S.F.R.R. right-of-way.
Set a standard U. S. Forest Service iron post, 3 ft. long., 1 in. in diam., 28 ins. in ground, with bronze cap marked
3 ES 676
1947 from which
a pinon 28 ins. in diam., bears N. 71° 14' W., 529 links dist., marked 3 ES 676 BT
From this point, the temp. 1/256 Sec. Cor. on E-W centerline bears S. 0° 09' E., 15.12 chains dist.
Thence along bdy. of A.T.& S.F.R.R. right-of-way,
N. 86° 36' E.
- 1.72 Train rail marker 3 ft. high, and point for Corner No. 4, Exchange Survey No. 676.
Alongside marker, set a standard U. S. Forest Service ~~marker~~ iron post 3 ft. long, 1 in. in diam., 24 ins. in ground, with bronze cap marked
4 ES 676
1947
- N. 39° 24' W.
- 1.51 Train rail marker 3 ft. high and point for Corner No. 5, Exchange Survey No. 676.
Alongside marker, set a standard U. S. Forest Service iron post 3 ft. long, 1 in. in diam., 24 ins. in ground, with bronze cap marked

COCONINO NATIONAL FOREST

STATE OF ARIZONA

8.

Chains

5 ES 676

1947

from which

a pinon 16 ins. in diam., bears N. 85° 58' E., 394 links dist., marked 5 ES 676 BT

a pinon 26 ins. in diam., bears N. 9° 51' E., 466 links dist., marked 5 ES 676 BT

N. 86° 36' E. fence

1.51 Train rail marker 3 ft. high, 6 links N.

2.87 End of tangent, fence 4 links N of line.

Thence on long curve by traverse, as follows:

N. 87° 06' E., 0.81 chains Fence 3 links N of line

N. 88° 06' E., 0.82 chains " 2 " " "

N. 89° 36' E., 0.87 chains " 1 " " "

S. 88° 24' E., 0.87 chains Cross fence

S. 86° 24' E., 0.87 chains

S. 84° 24' E., 0.87 chains

S. 82° 24' E., 0.87 chains Ascend W slope highway fill

S. 80° 24' E., 0.87 chains W edge U. S. Highway 66

S. 78° 24' E., 0.87 chains Cross hwy. Descend E slope of fill.

S. 76° 24' E., 0.87 chains Descend E slope of field

S. 74° 24' E., 0.87 chains E track railway spur

S. 72° 24' E., 0.87 chains

S. 70° 24' E., 0.32 chains Point for Corner No. 6, Exchange Survey No. 676

This point falls in road where monument cannot be established. Cannot set witness on line to N due to gravel pit.

S. 0° 07' E., 80 links dist., set a standard U. S. Forest Service iron post 3 ft. long, 1 in. in diam., 24 ins. in the ground, for witness corner, with bronze cap marked

WC
6 ES 676

1947

from which

a train rail right-of-way marker bears S. 81° 19' E., 301 links dist.

centerline railway spur bears S. 50° W., 23 links dist.

From true point for Corner No. 6, the 1/64 Sec. Cor. on E-W centerline bears S. 0° 07' E., 15.54 chains dist.

From true point for corner

N 0° 07' W., along E bdy. of tract.

COCONINO NATIONAL FOREST

STATE OF ARIZONA TO STATE

9.

Chains

- 0.94 S edge of gravel pit.
- 6.94 N edge of gravel pit and top of ridge, descend N slope.
- 7.94 Road, bears NW and SE.
- 9.94 Old road, bears NW and SE.
- 11.94 Enter scattered pinon and cedar timber.
- 24.35 To Corner No. 1, Exchange Survey No. 676, the place of beginning.

This tract includes the $W\frac{1}{2}NW\frac{1}{4}NE\frac{1}{4}$, $E\frac{1}{2}E\frac{1}{2}NE\frac{1}{4}NW\frac{1}{4}$, the portion of the $NW\frac{1}{4}SW\frac{1}{4}NE\frac{1}{4}$ and $NE\frac{1}{4}NE\frac{1}{4}SE\frac{1}{4}NW\frac{1}{4}$, lying N of the A.T. & S.F.R.R. right-of-way, in Sec. 14, T. 21 N., R. 9 E., containing 35.11 acres.

Chains

Chains

0.34 Edge of gravel pit.

6.31 Edge of gravel pit and top of ridge, descend N slope.

7.31 Road, bears NW and SE.

9.00 Old road, bears NW and SE.

11.54 Inter sectioned chain and other timber.

24.52 To corner No. 1, Stansbury Survey No. 670, the place of beginning.

This tract includes the NW 1/4, Sec. 12, T. 21 N., R. 21 E., Coconino Co., Arizona, the portion of the W. 1/2, Sec. 12, T. 21 N., R. 21 E., Coconino Co., Arizona, lying E of the S. 1/2, T. 21 N., R. 21 E., Coconino Co., Arizona, containing 32.11 acres.

- 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. 676

U. S. GOVERNMENT PRINTING OFFICE 6-8772

No.	COURSE	DISTANCE	LATITUDES		DEPARTURES		DOUBLE MERIDIAN DISTANCE	NORTH AREAS	SOUTH AREAS	TOTALS	
			NORTH	SOUTH	EAST	WEST				LATITUDE	DEPARTURE
CLOSURE OF WEST 5/8 OF N/2 SEC. 14, T. 21 N., R. 9 E.											
	NW 1/4 Cor., Sec. 14, T. 21 N., R. 9 E.										
	N. 0° 09' W.	39 87	39 87				0 10				
	NW Sec. Cor., Sec. 14, T. 21 N., R. 9 E.										
	N. 89° 58' E.	50 09	03		50 09						
	Mid pt. N bdy. NW 1/4 NE 1/4 Sec. 14, T. 21 N., R. 9 E.										
	S. 0° 07' E.	39 89		39 89	08						
	Mid pt. S bdy. SW 1/4 NE 1/4 Sec. 14, T. 21 N., R. 9 E.										
	N. 89° 58' W.	50 00	03				50 00				
	NW 1/4 Cor., Sec. 14, T. 21 N., R. 9 E.										
		179 85	39 93	39 89	50 17		50 10				
			<u>39 89</u>		<u>50 10</u>						
			04		07						
	Closing error = 1/2231										

APPROVAL

DEPARTMENT OF THE INTERIOR

BUREAU OF LAND MANAGEMENT

PUBLIC SURVEY OFFICE

Phoenix, Arizona
October 21, 1947

The foregoing field notes of EXCHANGE SURVEY
NO. 676,

executed by Aaron F. Jones, Civil Engineer,
Forest Service, under his special instructions,
dated April 23, 1947, having been critically
examined, and the necessary corrections and
explanations made, the said field notes, and
the surveys they describe, are hereby approved.

Frank W. Chapin
Office Cadastral Engineer.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
GENERAL LAND OFFICE
CADASTRAL ENGINEERING SERVICE
PUBLIC SURVEY OFFICE

103 U.S. Court House
Phoenix, Arizona

April 23, 1947

SPECIAL INSTRUCTIONS

EXCHANGE SURVEY NO. 676

Township 21 North, Range 9 East,

Gila and Salt River Meridian.

Office authority for the issuance of Special Instructions for the necessary field work of this survey is contained in Bureau of Land Management decision dated March 21, 1947.

The applicant is the Forest Service in order to identify on the ground and determine the area of the lands in Sec. 14 selected by the A.T. and S.F. Railway Co. and described as that portion of the $W\frac{1}{2}NW\frac{1}{4}NE\frac{1}{4}$, $NW\frac{1}{4}SW\frac{1}{4}NE\frac{1}{4}$, $N\frac{1}{2}SW\frac{1}{4}SW\frac{1}{4}NE\frac{1}{4}$, $E\frac{1}{2}E\frac{1}{2}NE\frac{1}{4}NW\frac{1}{4}$, $E\frac{1}{2}NE\frac{1}{4}SE\frac{1}{4}NW\frac{1}{4}$, $NE\frac{1}{4}SE\frac{1}{4}SE\frac{1}{4}NW\frac{1}{4}$, lying north of the A. T. and S.F. Railway Co. right-of-way.

Method of Procedure

Retrace the line between Secs. 11 and 14. On this line at a point determined by proportionate measurement, establish the $1/64$ sec. cor. at midpoint of north boundary of $NW\frac{1}{4}NE\frac{1}{4}$ Sec. 14. Also on this line, establish the $1/256$ sec. cor. at midpoint of the north boundary of $NE\frac{1}{4}NE\frac{1}{4}NW\frac{1}{4}$ Sec. 14.

Determine the center of section 14 at intersection of north-south and east-west center lines. At one-fourth the distance from center $\frac{1}{4}$ sec. cor. to the $\frac{1}{4}$ sec. cor. of secs. 13 and 14, set temp. $1/64$ sec. cor. From this point run true line northerly to the $1/64$ sec. cor. established between secs. 11 and 14. At intersection with north boundary of railroad right-of-way, establish the southeast corner of the selection. At one-eighth the distance from the center $\frac{1}{4}$ sec. cor. to the $\frac{1}{4}$ sec. cor. of secs. 14 and 15, set temp. $1/256$ sec. cor. From this point run true line northerly to the $1/256$ sec. cor. established bet. secs. 11 and 14. At intersection with the north boundary of the railroad right-of-way establish the southwest corner of the selection.

This area may be divided into two tracts by the establishment of a common corner at the intersection of the north-south center line of sec. 14 and north boundary of the railroad right-of-way.

Having established the limiting corners, the survey of the boundaries of the selected lands will be completed.

The corner monuments will consist of iron posts and be appropriately marked.

General

In addition to these special instructions, the Manual of Land Surveying will be the guide for all technical procedure.

Upon completion of the field work, the field notes of the survey will be prepared in triplicate which along with a plat of the survey drawn to scale, will be mailed to the Public Survey Office at Phoenix for checking and approval.

Should conditions arise appearing to demand additional instructions or which apparently make these special instructions inapplicable as prepared, the chief of field party will be expected to submit a report of the situation with such recommendations as may be responsive to the authorization.

This survey will be designated as EXCHANGE SURVEY No. 676.

Frank W. Chapin

Office Cadastral Engineer.

Approved:

May 28, 1947
Fred W. Johnson

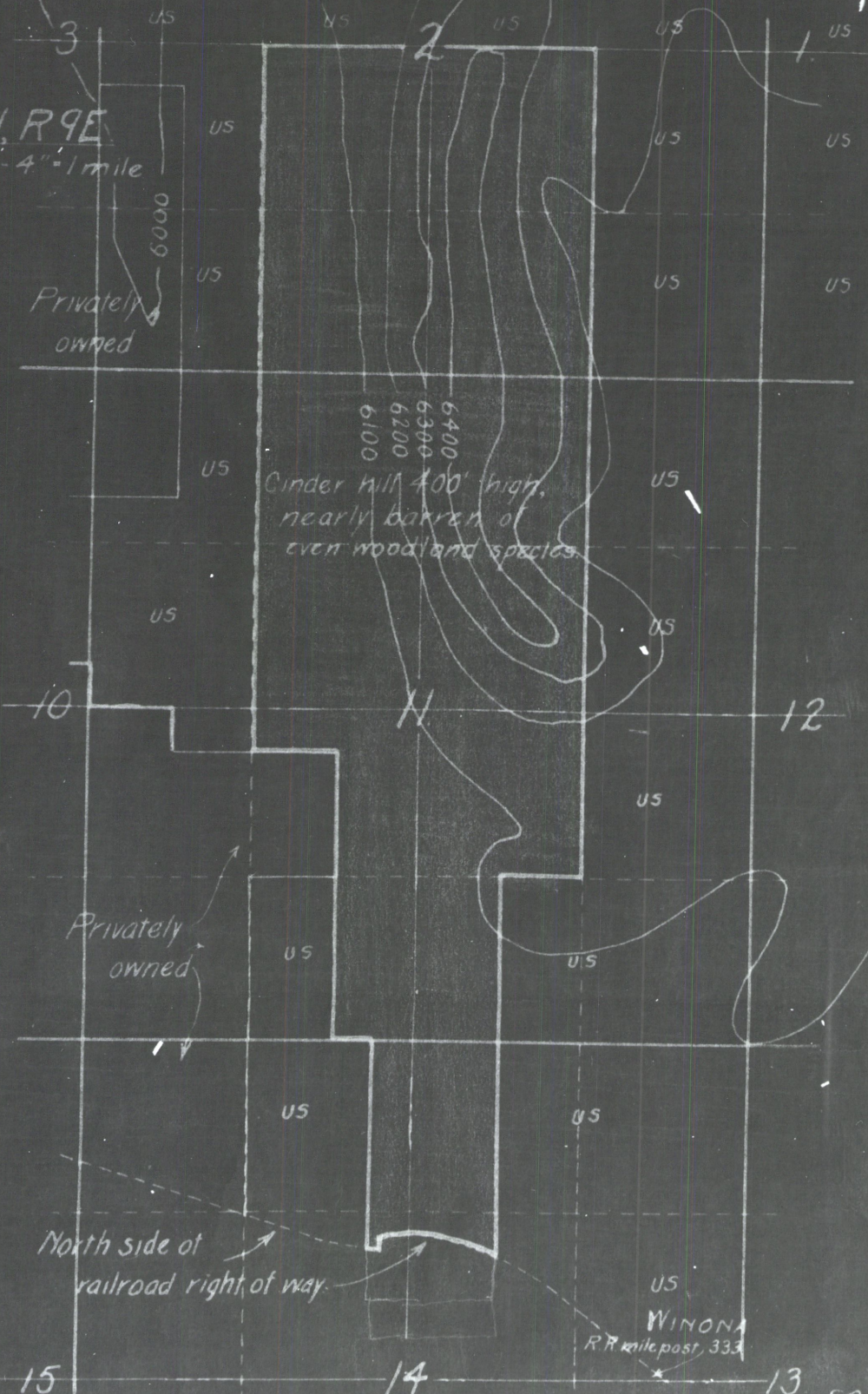
Director.

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ACQUISITION
Exchange
AT&S.F.RyCo
3/28/46

SELECTED LAND

T21N, R9E

Scale - 4" = 1 mile



Privately owned
6000

6100
6200
6300
6400
6500
Cinder hill 400' high,
nearly barren of
even woodland species

Privately owned

North side of
railroad right of way

WINONA
R.R. mile post 333

13 Roland
Rottly
4/11/46

(Copy)
UNITED STATES
DEPARTMENT OF THE INTERIOR
Bureau of Land Management
Washington 25, D.C.

Mar 21 1947

DECISION

Atchison, Topeka and : Forest Exchange
Santa Fe Railway Company : Land for Land
Coconino National Forest : 2115293 "K" (Phoenix)

Conditional Approval

On July 2, 1946 the Assistant Secretary of Agriculture recommended favorable consideration by this Department of a proposed exchange with the Atchison, Topeka and Santa Fe Railway Company, 121 East Sixth Street, Los Angeles 14, California, of land within the Coconino National Forest, Arizona, for land within the same forest, pursuant to the act of March 20, 1922 (42 Stat. 465) as amended by the act of February 28, 1925 (43 Stat 1090, 16 U.S.C. secs. 485, 486).

The applicant offers the SE $\frac{1}{4}$ sec. 15, lots 15, 22, sec. 27, T. 19 N., R. 6 E., G. & S.R.M., Arizona, 239.55 acres. In exchange for the offered land the applicant selects the E $\frac{1}{2}$ SW $\frac{1}{4}$, W $\frac{1}{2}$ SE $\frac{1}{4}$ sec. 2, E $\frac{1}{2}$ NW $\frac{1}{4}$, W $\frac{1}{2}$ NE $\frac{1}{4}$, N $\frac{1}{2}$ NW $\frac{1}{4}$ NE $\frac{1}{4}$ SW $\frac{1}{4}$, E $\frac{1}{2}$ NE $\frac{1}{4}$ SW $\frac{1}{4}$, E $\frac{1}{2}$ SE $\frac{1}{4}$ SW $\frac{1}{4}$, NW $\frac{1}{4}$ SE $\frac{1}{4}$, W $\frac{1}{2}$ SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 11, that portion of the W $\frac{1}{2}$ NW $\frac{1}{4}$ NE $\frac{1}{4}$, NW $\frac{1}{4}$ SW $\frac{1}{4}$ NE $\frac{1}{4}$, N $\frac{1}{2}$ SW $\frac{1}{4}$ SW $\frac{1}{4}$ NE $\frac{1}{4}$ lying north of the A.T. and S.F. Railroad right-of-way, that portion of the E $\frac{1}{2}$ E $\frac{1}{2}$ NE $\frac{1}{4}$ NW $\frac{1}{4}$, E $\frac{1}{2}$ NE $\frac{1}{4}$ SE $\frac{1}{4}$ NW $\frac{1}{4}$ and NE $\frac{1}{4}$ SE $\frac{1}{4}$ SE $\frac{1}{4}$ NW $\frac{1}{4}$ lying north of the A.T. and S.R. Railroad right of way, both in secs. 14, all in T. 21 N., R. 9 E., G. & S.R.M., Arizona, approximately 480 acres.

The offered land is subject to easements which may not be of record and to reservations contained in United States patents.

The SE $\frac{1}{4}$ sec. 15, T. 19 N., R. 6 E., is subject to an easement for right-of-way for National Forest Highway No. 7, U.S. Alternate No. 89, outstanding in the State of Arizona, or County of Coconino, and to a lease for a rearing pond outstanding in the Fish and Game Department of the State of Arizona.

A reservation of the fissionable source materials will be made by the United States in the selected land in accordance with the act of August 1, 1946 (Public Law 535, 79th Congress).

The selected land is subject to a reservation to the United States of an easement and right-of-way for United States Highway No. 66 as now located and defined, and the right of the United States, its officers, agents, or employees to maintain, operate, repair or improve the same as long as needed or used for or by the United States.

2115293 "K" (Phoenix)

Land survey instructions should be requested by the Forest Service of the Public Survey Office to identify on the ground the two selected tracts in the $W\frac{1}{2}NW\frac{1}{4}NE\frac{1}{4}$, $NW\frac{1}{4}SW\frac{1}{4}NE\frac{1}{4}$, $N\frac{1}{2}SW\frac{1}{4}SW\frac{1}{4}NE\frac{1}{4}$, $E\frac{1}{2}E\frac{1}{2}NE\frac{1}{4}NW\frac{1}{4}$, $E\frac{1}{2}NE\frac{1}{4}SE\frac{1}{4}NW\frac{1}{4}$, $NE\frac{1}{4}SE\frac{1}{4}SE\frac{1}{4}NW\frac{1}{4}$ sec. 14, T. 21 N., R. 9 E., and to establish the area of these tracts.

The Assistant Secretary of Agriculture states that the public interest will be benefited by the exchange, that the offered land is valuable chiefly for national forest purposes, unoccupied by adverse claimants, and that the lands selected in the exchange do not exceed the offered land in value, due consideration having been given to the above mentioned reservations.

In view thereof, and as there are no apparent objections, the proposed exchange is hereby approved, subject to the submission of acceptable title to the offered land, compliance with the law and regulations, and to any intervening valid objections.

The applicant should submit a recorded general warranty deed of conveyance to the United States, which deed should recite that the consideration for the conveyance is the exchange therefor of land not greater in value than the offered land, and there should be made a reference to the acts of Congress under which the exchange is made. Revenue stamps in the amount of \$11.00 should be affixed to the deed and canceled.

As the lands in this exchange are located in Coconino County, the Acting Manager is directed, in issuing his order for publication, to designate The Coconino Sun at Flagstaff as the medium of publication.

The applicant is allowed sixty days from receipt hereof within which to file a formal application with the Acting Manager of the District Land Office at Phoenix, Arizona, and all other papers required by the regulations, paragraphs 148.5 to 148.14 inclusive, Circular No. 863e, copy attached.

(sgn) Fred W. Johnson

Director

Approved: Mar. 21, 1947
(sgd) G. Girard Dauder

Assistant Secretary of the Interior.

Attachments.