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ORIGINAL

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SEP 14 1938  
DEC 16 1939

U. S. DEPARTMENT OF AGRICULTURE  
FOREST SERVICE

FIELD NOTES

OF

EXCHANGE  
~~XXXXXXXXXXXXXXXXXXXX~~ SURVEY NO. 664

SITUATED IN THE COCONINO NATIONAL FOREST

ADMINISTRATIVE DISTRICT NO.

In Section 21 , surveyed, Township 21 N. , Range 10 E.

Retracement N/2 E. and W. Boundaries Sec. 21, T. 21 N., R. 10 E.

of the

Gila and Salt River Base and Meridian.

State of

ARIZONA

Exchange  
Applicant for ~~XXXXXX~~ Rabbitt Bros. Lands, Inc.

Residence

Application No. , dated , 19

List No. , dated , 19

Applicant for survey

Residence

H. E. No. , dated , 19

Land Office

Survey executed by **Thomas F. Myers,**  
**Associate C. E. Inspector, Forest Service** [Forest Service Title.]  
Under special instructions dated **June 30** , 19**38**

Survey commenced **July 18** , 19**38**

Survey completed **July 21** , 19**38**

Under Acts of **March 20, 1922 and June 16, 1938.**



OATH OF ASSISTANTS

We hereby certify that we assisted **Thomas F. Myers, Associate C. E. Inspector,**  
**Forest Service** in surveying all those

[Forest Service Title.]

parts or portions of ~~Public Survey~~ **Exchange** Survey No. **664**, 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

NOTE: It would have been very expensive  
and inconvenient to appear before an of-  
ficer to administer oaths to assistants.  
Hence, they were taken by the Associate  
C. E. Inspector.

*James A. Egan*  
*H. K. Hartchner*  
*Hugh C. Graham*  
*W. C. Hosberg*

Subscribed and sworn to before me this 23rd day of

*July*, 1938

*Thomas F. Myers*

OATH OF SURVEYOR

I, **Thomas F. Myers, Associate C. E. Inspector, Forest Service**

[Forest Service Title.]

do solemnly swear that, in strict conformity with the special instruc-  
tions of the ~~United States Surveyor General~~ **Office of Public Surveys** for **Arizona**, dated  
**June 30**, 1938, 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 Acts of **March 20, 1922 and June 16, 1938.**  
the same to be known as ~~Public Survey~~ Survey No. **664**,  
situated within the **Coconino** National Forest, in  
surveyed Section **21**, Township **21 N.**, Range **10 E.**, and  
surveyed Section \_\_\_\_\_, Township \_\_\_\_\_, Range \_\_\_\_\_

of the **Gila & Salt River Base &** 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.

*Thomas F. Myers*

**Associate C. E. Inspector,**  
[Forest Service Title.] **Forest Service.**

Subscribed and sworn to before me this twenty-eighth day of

*July*, 1938

*Arnan R. C. Buyer*  
Notary Public



MY COMMISSION EXPIRES JULY 2, 1939

HOMESTEAD ENTRY SURVEY NO. 664

EXCHANGE  
COCONINO NATIONAL FOREST

STATE OF ARIZONA

Chains

The tract of land embraced in this survey is in private ownership and was surveyed for acquisition by the United States under the Acts of March 20, 1922 and June 16, 1938.  
Applicant for Exchange - Babbitt Bros. Lands, Inc.  
The land embraced in this survey is situated in Sec. 21, T. 21 N., R. 10 E., surveyed and accepted, Gila and Salt River Base and Meridian, Coconino National Forest, Arizona.  
Surveyed under special instructions from the Public Survey Office for Arizona, dated June 30, 1938 and designated as Exchange Survey No. 664.  
The survey was commenced July 18, 1938 and executed with a Buff and Buff transit No. 10019.  
I test the adjustments of the transit and make all necessary corrections. All distances are horizontal and were reduced from measurements made directly on the slope with a 400 link steel tape. The slope angles were determined with a clinometer.

July 21, 1938

At my station, which is approximately 11 chs. North of the 1/4 cor. bet. Sec's 20 and 21, T. 21 N., R. 10 E., G. & S.R.B. & M. hereinafter described, in lat. 35° 11' 37" N., long. 111° 20' 30" W. from Forest Service Base Map, I observe Polaris as follows:

Reference mark West of star - a stake set in ground about 8.00 chs. northerly of my station.

<u>Watch Time</u>	<u>Telescope</u>	<u>Angle From Star to Mark</u>
7 h. 24 m. 09 s.	Direct	0° 24'
7 h. 25 m. 18 s.	Reversed	0° 24'
Mean 7 h. 24 m. 43 s.		0° 24'
25 m. 22 s. corr. to l.m.t.		
6 h. 49 m. 21 s. l.m.t. obsn.		

My watch is set for 105th Meridian Standard Time, and compared with Western Union time today at Flagstaff was found to be correct.

Greenwich Mt. U. C. Polaris July 22, 1938	5 h. 44.9 m. am
Corr. for long.	1.2 m.
l.m.t. U. C. Polaris July 22, 1938	5 h. 43.7 m. am
l.m.t. obsn. Polaris July 21, 1938	6 h. 49.3 m. pm
Hour Angle	10 h. 44.4 m.
Azimuth of Polaris	0° 23' 35" E.
Bearing of Reference Mark	N. 0° 0' 25" W.

HOMESTEAD ENTRY SURVEY NO. 664  
EXCHANGE  
COCONINO NATIONAL FOREST  
STATE OF ARIZONA

Chains	Watch Time	Telescope	Angle from Star to Mark
	7 h. 26 m. 36 s.	Direct	0° 25'
	7 h. 27 m. 31 s.	Reversed	0° 25'
	Mean 7 h. 27 m. 03 s.		0° 25'
	25 m. 22 s. corr. to l.m.t.		
	7 h. 01 m. 41 s. l.m.t. obsn.		
	l.m.t. U. C. Polaris July 22, 1938		5 h. 43.7 m. am
	l.m.t. obsn. Polaris July 21, 1938		7 h. 1.7 m. pm
	Hour Angle		10 h. 42 m.
	Azimuth of Polaris		0° 24.3' E.
	Bearing of Reference Mark		N. 0° 0' 42" W.
	Mean bearing of reference mark is N. 0° 0' 33" W. I accept bearing of reference mark as N. 0° 01' W.		
	<u>NOTE:</u> The courses of this survey were run on an assumed azimuth and subsequently corrected to the Meridian as above determined. All courses were carried forward by sustained angulation.		
			July 21, 1938.

RETRACEMENTS

July 18, 1938

Beginning at the 1/4 cor. bet. Sec's 21 and 22, T. 21 N., R. 10 E.  
An iron post 1 in. in dia. 10 ins. above ground with brass cap marked and witnessed as described by Office of Public Surveys.  
Thence N. 0° 02' W.

Retracing line bet. Sec's 21 and 22 N/2.

40.00 Fall 7 lks. West of cor. Sec's 15,16,21 and 22.  
An iron post 2 ins. in dia. 24 ins. above ground in mound of stone with brass cap marked and witnessed as described by Office of Public Surveys.  
Thence S. 0° 04' W.

On true line bet. Sec's 21 and 22 N/2,

2.05 Bottom canyon Young's Creek Course E. asc. 40 ft.

3.30 South rim rock Young's Canyon brs. E. and W.  
Thence over rolling land through dense pinon and cedar.

28.31 A.T.& S.F. Ry. fence along right-of-way North side of track brs.  
N. 89° 39' W. and S. 89° 39' E.

EXCHANGE  
~~HOUSTEAD CENTER~~ SURVEY NO. 664

COCONINO NATIONAL FOREST

STATE OF ARIZONA

Chains

29.63 Center A.T.& S.F. Ry. track bears N. 89° 39' W. and S. 89° 39' E.  
(North main line or East bound track)

29.83 Center A.T.& S.F. Ry. track brs. N. 89° 39' W. and S. 89° 39' E.  
(South main line or West bound track) Set temp. pt.

31.35 A.T.& S.F. Ry. fence along right-of-way brs. N. 89° 39' W. and  
S. 89° 39' E. Set point for Cor. No. 3 of this survey hereinafter  
described.

40.00 1/4 cor. bet. Sec's 21 and 22 previously described.

-----  
From 1/4 cor. bet. Sec's 20 and 21, T. 21 N., R. 10 E.

An iron post 1 in. in dia. 10 ins. above ground with brass cap  
marked and witnessed as described by Office of Public Surveys.

Thence N. 0° 03' W.

Retracing line bet. Sec's 20 and 21, N/2.

39.98 Intersect cor. Sec's 16,17,20 and 21.

a cedar tree 12 ins. in dia. marked and witnessed as  
described by Office of Public Surveys.

NOTE: Pinon bearing trees N. 38 3/4° E. 27 lks. and

N. 86° W. 49 lks. have been fire-killed by wood cutters

burning brush. Trunks of trees have been charred and markings  
nearly obliterated.

Thence S. 0° 03' E.

On true line over level land through pinon and cedar.

27.85 A.T.& S.F. Ry. right-of-way fence brs. N. 89° 39' W. and S. 89° 39' E.

29.16 Center A.T.& S.F. Ry. track brs. N. 89° 39' W. and S. 89° 39' E.  
(North main line or East bound track)

29.36 Center A.T.& S.F. Ry. track brs. N. 89° 39' W. and S. 89° 39' E.  
(South main line or West bound track) Set temp. pt.

30.88 A.T.& S.F. Ry. fence along right-of-way brs. N. 89° 39' W. and  
S. 89° 39' E. Set point for Cor. No. 2 of this survey hereinafter  
described.

39.98 The 1/4 cor. bet. Sec's 20 and 21 previously described.

-----  
From 1/4 cor. bet. Sec's 20 and 21 previously described.

Thence East.

EXCHANGE  
HOMESTEAD ENTRY SURVEY NO. 664

COCONINO NATIONAL FOREST

STATE OF ARIZONA

Chains Over level land through dense pinon and juniper.  
 79.98 Fall 3 lks. S. of 1/4 cor. bet. Sec's 21 and 22 previously described  
 True line is N. 89° 59' E. 79.98 chs.  
 July 18, 1938.

Retracement Center Line of A.T. & S.F. Ry. Right of Way  
 through Sec. 21, T. 21 N., R. 10 E.

July 19, 1938.

Beginning at a point in center of South main line track (West bound track) on line bet. Sec's 21 and 22 previously determined.

Thence N. 89° 39' W.

Along center South main track.

79.97 Intersect point on line bet. Sec's 20 and 21 previously determined.

BOUNDARIES OF SURVEY

Beginning at the 1/4 cor. bet. Sec's 20 and 21 previously described.

I adopt the 1/4 cor. for Cor. No. 1 of this survey and alongside to East set a limestone 26x10x5 ins. 16 ins. in ground marked 1 ES 664 on E. face. Whence from cor.

a juniper 7 ins. in dia. brs. N. 2° E. 30 lks. dist. blazed and scribed 1 ES 664 + BT

a juniper 8 ins. in dia. brs. S. 48° 30' E. 81 lks. dist. blazed and scribed 1 ES 664 + BT

Lat. 35° 11' 30" N. Long. 111° 20' 30" W. from Forest Service Base Map.

Mag. decl. 8:00 am 14° 49' E. Mean mag. decl. 14° 44.8' E.

Thence N. 0° 03' W.

Along sec. line bet. Sec's 20 and 21, N/2.

9.10 To Cor. No. 2 and closing cor. on line bet. Sec's 20 and 21.

Deposit a limestone 3x3x4 ins. marked with a + 14 ins. in ground over which set a limestone 20x10x4 ins. marked + on top for point CC on East face, and 2 ES 664 on SE face. Raise mound of stone 3 ft. base 2 ft. high on line 3 ft. S. 89° 39' E. of cor. Whence from cor.

a pinon 12 ins. in dia. brs. S. 73° W. 84 lks. dist. blazed

HOMESTEAD ENTRY SURVEY NO. 664

EXCHANGE  
COCONINO NATIONAL FOREST

STATE OF ARIZONA

Chains

and scribed CC 2 ES 664 + BT

a juniper 8 ins. in dia. brs. S. 19° E. 13 lks. dist. blazed

and scribed CC 2 ES 664 + BT

a juniper 9 ins. in dia. brs. S. 27° E. 187 lks. dist. blazed

and scribed CC 2 ES 664 + BT

1/4 cor. bet. Sec's 20 and 21 previously described brs. S. 0° 03' E.  
9.10 chs. dist.

Cor. Sec's 16,17,20 and 21 previously described brs. N. 0° 03' W.  
30.88 chs. dist.

-----  
Thence S. 89° 39' E.

Along S. bdy. of A.T.& S.F. Ry. right-of-way 100 ft. dist. from  
center of South main track, along Ry. fence.

79.97 To Cor. No. 3 and closing corner on line bet. Sec's 21 and 22.

Deposit a limestone 4x2x5 ins. marked with a + 14 ins. in ground  
over which set a limestone 24x6x8 ins. marked + on top for exact  
point, CC on W. face and 3 ES 664 on SW face. Raise mound of  
stone 3 ft. base 2 ft. high on line N. 89° 39' W. 3 ft. dist.

Whence from cor.

a juniper 10 ins. in dia. brs. S. 62° 30' W. 133 lks. dist.

blazed and scribed CC 3 ES 664 + BT

a juniper 6 ins. in dia. brs. S. 20° W. 119 lks. dist. blazed

and scribed CC 3 ES 664 + BT

1/4 cor. bet. Sec's 21 and 22 previously described brs. S. 0° 04' W.  
8.65 chs. dist.

Cor. Sec's 15,16,21 and 22 previously described brs. N. 0° 04' E.  
31.35 chs. dist.

-----  
Thence S. 0° 04' W.

Along line bet. Sec's 21 and 22 N/2

Over level land through scattering pinon and cedar.

8.65 To Cor. No. 4

Identical with 1/4 cor. bet. Sec's 21 and 22 previously described  
I adopt 1/4 cor. for Cor. No. 4 of this survey and alongside to  
West set limestone 20x4x8 ins. 12 ins. in ground. Marked 4 ES 664



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HOMESTEAD ENTRY SURVEY NO. 664  
EXCHANGE  
COCONINO NATIONAL FOREST  
STATE OF ARIZONA

Chains

On West face. Whence from cor.

a pinon 5 ins. in dia. brs. S. 60° 30' W. 7 lks. dist. blazed  
and scribed 4 ES 664 + BT

a pinon 9 ins. in dia. brs. N. 13° W. 164 lks. dist. blazed  
and scribed 4 ES 664 + BT

Thence S. 89° 59' W.

Along latitudinal 1/4 sec. line through center sec.

Over level land through dense pinon and cedar.

79.98 To Cor. No. 1 previously described and place of beginning.

July 19, 1938.

AREA

Area of Survey 70.97 acres

Survey completed July 21, 1938.

*Thomas E. Meyer*  
Associate C. E. Inspector,  
Forest Service.



Счетная книга № 5 за 1958 г.

15.10.58	100.00	100.00	100.00	100.00	100.00	100.00
16.10.58	100.00	100.00	100.00	100.00	100.00	100.00
17.10.58	100.00	100.00	100.00	100.00	100.00	100.00
18.10.58	100.00	100.00	100.00	100.00	100.00	100.00
19.10.58	100.00	100.00	100.00	100.00	100.00	100.00
20.10.58	100.00	100.00	100.00	100.00	100.00	100.00
21.10.58	100.00	100.00	100.00	100.00	100.00	100.00
22.10.58	100.00	100.00	100.00	100.00	100.00	100.00
23.10.58	100.00	100.00	100.00	100.00	100.00	100.00
24.10.58	100.00	100.00	100.00	100.00	100.00	100.00
25.10.58	100.00	100.00	100.00	100.00	100.00	100.00
26.10.58	100.00	100.00	100.00	100.00	100.00	100.00
27.10.58	100.00	100.00	100.00	100.00	100.00	100.00
28.10.58	100.00	100.00	100.00	100.00	100.00	100.00
29.10.58	100.00	100.00	100.00	100.00	100.00	100.00
30.10.58	100.00	100.00	100.00	100.00	100.00	100.00
31.10.58	100.00	100.00	100.00	100.00	100.00	100.00
Итого	3000.00	3000.00	3000.00	3000.00	3000.00	3000.00

100.00

Счетная книга № 5 за 1958 г. (mirrored text from reverse side)

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.

~~EXCHANGE~~  
~~HOMESTEAD ENTRY~~  
TABLING AND CALCULATIONS OF SURVEY NO. 664, STATE OF ARIZONA

8-2349

CORNERS.	BEARING.	DISTANCE.	LATITUDES.		DEPARTURES.		DOUBLE M. D.		N. AREAS.		S. AREAS.				
			NORTH.	SOUTH.	EAST.	WEST.									
Line 1 - 2	N. 0° 3' W.	9.10	9	10				01	01		09				
2 - 3	S. 89° 39' E.	79.97			49 <sup>46</sup>	79	97 <sup>98</sup>			79	98	36	79		
3 - 4	S. 0° 04' E.	8.65		8	65				01	159	95	1,383	57		
4 - 1	S. 89° 59' W.	79.98		01	02 <sup>00</sup>				79	98 <sup>96</sup>	79	98			
		177.70	9	10	9	16	79	97	79	98	80	89	1,420	36	
				9	10									89	
	Error in lat. and dep.				06								20	1,419.47	
	Closing error 1/2643													70	97 acres

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APPROVAL  
PUBLIC SURVEY OFFICE

~~Office of the United States Surveyor General~~

Phoenix, Arizona, January 27, 1938

The foregoing field notes of ~~Home Exchange Survey No. 664~~

EXCHANGE SURVEY NO. 664

executed by Thomas F. Myers, Associate C.E. Inspector, Forest Service  
[Forest Service Title.]  
under his special instructions, dated June 30, 1938, ~~1938~~, having  
been critically examined, and the necessary corrections and explanations  
made, the said field notes, and the surveys they describe, are hereby  
approved.

*Sherman C. Fiske*  
~~XXXXXXXXXXXXXXXXXXXX~~  
Office Cadastral Engineer

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.

Sherman C. Fiske  
~~XXXXXXXXXXXXXXXXXXXX~~  
Office Cadastral Engineer

