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U. S. DEPARTMENT OF AGRICULTURE
FOREST SERVICE

FIELD NOTES

OF
EXCHANGE
~~XXXXXXXXXXXXXXXXXXXX~~ SURVEY NO. 665

SITUATED IN THE **COCONINO** NATIONAL FOREST
ADMINISTRATIVE DISTRICT NO. _____

In Section **23** , surveyed, Township **21 N.** , Range **10 E.**

and

Retracement of line bet. Sec's 22 and 23, T. 21 N., R. 10 E.
Retracement of N/2 of line bet. Sec's 23 and 24, T. 21 N., R. 10 E.

of the

Gila & Salt River Base & Meridian.

State of

ARIZONA.

Exchange

Applicant for ~~listings~~ **Babbitt Bros. Lands, Inc.**

Residence

Application No. _____ , dated _____ , 19

List No. _____ , dated _____ , 19

Applicant for survey

Residence

H. E. No. _____ , dated _____ , 19

Land Office

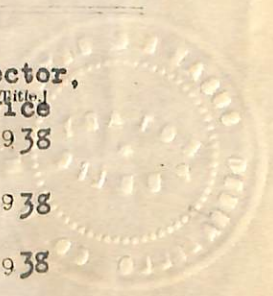
Survey executed by **Thomas F. Myers, Associate C. E. Inspector,**
Forest Service

Under special instructions dated **June 30** , 19**38**

Survey commenced **July 13** , 19**38**

Survey completed **July 16** , 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** in surveying all those **Forest Service**

[Forest Service Title.]

parts or portions of ~~XXXXXXXXXXXX~~ **Exchange** Survey No. **665**, 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:

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

James A. Egan
H. Kaylchner
Hugh C. Graham
W. O. Fosberg

Subscribed and sworn to before me this **23rd** day of

July, 19**38**

Thomas F. Myers

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

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 instructions of the ~~XXXXXXXXXXXX~~ **Office of Public Surveys** for **Arizona**, dated **June 30**, 19**38**, 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 **March 20**, 19**22 & June 16, 1938** the same to be known as ~~XXXXXXXXXXXX~~ Survey No. **665** situated within the **Coconino** National Forest, in surveyed Section **23**, 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, 19**38**

Susan R. C. Beyer
Notary Public



MY COMMISSION EXPIRES JULY 2, 1939

EXCHANGE
HOMESTEAD ENTRY SURVEY NO. 665

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.
Situating in surveyed Sec. 23, T. 21 N., R. 10 E. of the Gila and Salt River Base and Meridian, Coconino National Forest, Arizona.

Surveyed under special instructions from the Office of Public Surveys for Arizona, dated June 30, 1938, and designated as Exchange Survey No. 665.

Survey commenced July 13, 1938 and executed with a Buff and Buff transit No. 10019.

The adjustments of the transit were tested and necessary adjustments made before commencing the survey.

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 13, 1938

At the 1/4 corner between Sec's 23 and 24, T. 21 N., R. 10 E. hereinafter described in latitude 35° 11' 30" N., longitude 111° 17' 21" W. from Forest Service Base Map, I observe polaris as follows:
Reference mark a stake about 5.00 chs. north from sta. Star is east of mark.

Watch Time	Telescope	Angle from Mark to Star
7 h. 40 m. 41 s. pm	Direct	0° 22'
7 h. 42 m. 18 s. pm	Reversed	0° 23'
Mean 7 h. 41 m. 30 s.		0° 22' 30"
25 m. 09 s. corr. to l.m.t.		
7 h. 16 m. 21 s. pm l.m.t. obsn.		

Set my watch with Western Union time today and made to read correct 105th meridian Standard time, which by difference of longitude at this point is 25 m. 09 s. fast on l.m.t.

Greenwich M.T.U.C. Polaris July 14, 1938 6 h. 16.2 m. am
Correction for longitude 1.2

l.m.t. U. C. Polaris July 14, 1938 6 h. 15 m. am
l.m.t. obsn. " July 13, 1938 7 h. 16 m. 21 s. pm

Hour Angle 10 h. 58 m. 39 s.

EXCHANGE
HOMESTEAD ENTRY SURVEY NO. 665

COCONINO NATIONAL FOREST

2.

STATE OF ARIZONA

Chains	Azimuth of Polaris	0° 19.3' E.
	Bearing of ref. mark	N. 0° 03.2' W.
	<u>Watch Time</u>	<u>Telescope</u>
		<u>Angle from Mark to Star</u>
	7 h. 43 m. 26 s. pm	Direct
	7 h. 44 m. 47 s. pm	Reversed
	Mean 7 h. 44 m. 06 s.	0° 23' 30"
	25 m. 09 s. corr. to l.m.t.	
	7 h. 18 m. 57 s. pm l.m.t. obsn.	
	l.m.t. U. C. Polaris July 14, 1938	6 h. 15 m. am
	l.m.t. obsn. " July 13, 1938	7 h. 18 m. 57 s. pm
	Hour Angle	10 h. 56 m. 03 s.
	Azimuth of Polaris	0° 20.2' E.
	Bearing of ref. mark	N. 0° 03.3' W.

The bearing of the reference mark as determined from the mean of the two obsns. is N. 0° 03' 15" W. I accept bearing of reference mark as N. 0° 03' W. and from the corresponding meridian all courses of this survey were deflected by sustained angulation.

RETRACEMENTS

July 13, 1938

Beginning at the 1/4 cor. between Sec's 23 and 24, T. 21 N., R. 10 E. an iron post 1 in. in diameter, 20 in. above ground in mound of stone with brass cap marked and witnessed, as described by the Office of Public Surveys.

Thence N. 0° 01' W.

Retracing line between Sec's 23 and 24 N/2 through cedar and pinon, over gently rolling land.

3.42 A.T. & S.F. Ry. right of way fence bears N. 87° 06' W. and S. 87° 06' E.

4.94 Center S. track A.T. & S.F. Ry. bears N. 87° 06' W. and S. 87° 06' E.

5.16 Center N. track A.T. & S.F. Ry. bears N. 87° 06' W. and S. 87° 06' E.

6.45 A.T. & S.F. Ry. right of way fence bears N. 87° 06' W. and S. 87° 06' E.

40.01 Fall 2 lks. E. of cor. Sec's 13, 14, 23 and 24, T. 21 N., R. 10 E. an iron post 2 ins. in dia. 18 ins. above ground in mound of stone, with brass cap, marked and witnessed as described by Office of Public Surveys.

Thence S. 0° 03' E.

- Chains On true line between Sec's 23 and 24 N/2
- 33.56 A.T.& S.F. Ry. right of way fence bears N. 87° 06' W. and S. 87° 06' E.
- 34.85 Center A.T.& S.F. Ry. North or East bound main line track bears N. 87° 06' W. and S. 87° 06' E.
- 35.07 Center A.T.& S.F. Ry. South or West bound main line track bears N. 87° 06' W. and S. 87° 06' E.
- 36.59 A.T.& S.F. Ry. fence on South boundary of right of way 100 ft. dist. from center of South main tracks. Set point for cor. No. 5 and closing cor. of this survey hereinafter described.
- 40.01 1/4 cor. between Sec's 23 and 24 previously described.

July 13, 1938.

July 14, 1938.

From 1/4 cor. between Sec's 22 and 23, T. 21 N., R. 10 E. an iron post 1 in. in dia. 30 ins. above ground in mound of stone with brass cap, marked and witnessed as described by Office of Public Surveys.

Thence N. 0° 01' W.

Retracing line between Sec's 22 and 23 N/2 through dense juniper and pinon, over gently rolling land along A.T.& S.F. Ry. fence.

8.92 A.T.& S.F. Ry. South main line or West bound track bears N. 87° 06' W. and S. 87° 06' E.

9.14 A.T.& S.F. Ry. North main line or East bound track bears N. 87° 06' W. and S. 87° 06' E.

39.86 Fall 1 lk. W. of cor. Sec's 14,15,22 and 23, T. 21 N., R. 10 E., 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.

True line is South 39.86 chs.

July 14, 1938,

July 15, 1938.

From 1/4 cor. between Sec's 22 and 23, T. 21 N., R. 10 E. previously described.

Thence S. 0° 01' E.

EXCHANGE
HOMESTEAD ENTRY SURVEY NO. 665

COCONINO NATIONAL FOREST

4.

STATE OF ARIZONA

Chains Retracing line between Sec's 22 and 23 S/2, through dense pinon and cedar.

40.01 Fall 2 lks. West of cor. to Sec's 22, 23, 26 and 27, an iron post 2 ins. in dia. 16 ins. above ground in mound of stone with brass cap, marked and witnessed as described by Office of Public Surveys. Thence N. 0° 03' W. On true line between Sec's 22 and 23 S/2.

39.84 Set point for cor. No. 2 and closing cor. of this survey hereinafter described.

40.01 1/4 cor. between Sec's 22 and 23 previously described. The retracements above described close with the remaining boundaries of the Sec. as of record. Therefore, further retracements are unnecessary.

RETRACEMENTS - Center Line A.T.& S.F. Ry. Right of Way through Sec. 23, T. 21 N., R. 10 E.

From point in center of South track or West bound main line track A.T.& S.F. Ry. on line between Sec's 22 and 23, T. 21 N., R. 10 E. Whence 1/4 cor. between Sec's 22 and 23 bears S. 8.92 chs. Thence S. 87° 06' E. Along center South track or West bound main line track.

52.13 Corner station ground at Angell and right of way fence bears S. 2° 54' W. 100 ft. dist. Fence bears S. 87° 06' E. and S. 2° 54' W. SE cor. Angell Station ground fence bears S. 2° 54' W. 600 ft. dist. Fences bear N. 87° 06' W. and N. 2° 54' E. from SE cor. station grounds.

80.01 Intersect Sec. line between Sec's 23 and 24. 4.94 chs. N. 0° 03' W. from 1/4 cor. between Sec's 23 and 24 previously described. July 15, 1938.

BOUNDARIES OF EXCHANGE SURVEY No. 665.

July 16, 1938.
Beginning at cor. No. 1.
Identical with cor. Sec's 22, 23, 26 and 27 previously described.

- Chains I adopt same for cor. No. 1 of this survey and alongside to NE set limestone 20x6x12 ins. marked 1 ES 665 on NE face, replace mound of stone around cor. Whence from cor.
- a juniper 6 ins. in dia. brs. N. 22° E. 42 lks. dist. blazed
(Note: This tree forks at ground
and scribed 1 ES 665 + BT (line, one fork of which is marked
as a bearing tree for cor. Sec's 22, 23, 26 and 27.)
- a juniper 6 ins. in dia. brs. S. 78° E. 44 lks. dist. blazed
and scribed 1 ES 665 + BT
- Latitude 35° 11' N. Longitude 111° 18' 21" W. from Forest Service
Base Map.
- Mag. decl. at 8:00 am 14° 49' E. Mean mag. decl. 14° 44.8' E.
- Thence N. 0° 03' W. over gently rolling land through dense pinon
and juniper.
- 39.84 To cor. No. 2 and closing cor. on line between Sec's 22 and 23.
Mark + on solid limestone ledge over which set limestone 25x6x11 ins.
marked + on top for the point, CC on E face, and 2 ES 665 on SE
face; surrounded by mound of stone 3 ft. base 1 1/2 ft. high.
Raise mound of stone 3 ft. base 2 ft. high on line S. 87° 06' E. of
cor. 3 ft. dist. Whence from cor.
- a juniper 7 ins. in dia. brs. S. 4° W. 70 lks. dist. blazed
and scribed CC 2 ES 665 + BT
- a pinon 8 ins. in dia. brs. S. 72° E. 142 lks. dist. blazed
and scribed CC 2 ES 665 + BT
- 1/4 cor. between Sec's 22 and 23 previously described brs. N. 0°
03' W. 17 lks.
- Cor. Sec's 22, 23, 26 and 27 previously described brs. S. 0° 03' E.
39.84 chs.
- Thence S. 87° 06' E.
- Over gently rolling land, through pinon and juniper. Fence North
of line, 15 lks. dist.
- 4.55 Cor. fence fences bear S. and WNW
- 7.56 Cor. fence fences bear S. and S. 87° 06' E. on line
- 15.15 Road bears N. and S. 20 ft. wide
- 52.13 To cor. No. 3.
At SE cor. Railway station grounds at Angell also cor. of fence.

EXCHANGE
HOMESTEAD ENTRY SURVEY NO. 665

COCONINO NATIONAL FOREST

6.

STATE OF ARIZONA

Chains Fences bear N. 87° 06' W. and N. 2° 54' E.
 Marker for cor. of station grounds is an iron rail showing 3 ft.
 above ground, firmly set in ground. I adopt marker for cor. No. 3
 of this survey and mark same + on top for exact point and 3 ES 665
 on bottom of flange which faces S. Whence
 a juniper 6 ins. in dia. brs. S. 32° W. 141 lks. dist.
 blazed and scribed 3 ES 665 + BT
 a pinon 6 ins. in dia. brs. N. 44° 30' E. 127 lks. dist.
 blazed and scribed 3 ES 665 + BT

 Thence N. 2° 54' E.
 Over gently rolling land along Railway station ground fence.

7.57 To cor. No. 4
 At cor. of fence for Railway station grounds and Railway right of
 way on S. side of track. Fences bear S. 87° 06' E. and S. 2° 54' W.
 Identical with marker used for cor. of Railway station grounds, an
 iron rail showing 4 ft. above ground firmly set in ground. I adopt
 marker for cor. No. 4 of this survey and mark same + on top for
 exact point and 4 ES 665 on bottom of flange which faces S., raise
 mound of stone 3 ft. base 2 ft. high, SE of cor. Whence from cor.
 a juniper 6 ins. in dia. brs. S. 78° 30' E. 105 lks. dist.
 blazed and scribed 4 ES 665 + BT
 a juniper 6 ins. in dia. brs. S. 37° E. 75 lks. dist.
 blazed and scribed 4 ES 665 + BT

 Thence S. 87° 06' E.
 Over gently rolling land. Railway right of way fence on line.

27.51 To cor. No. 5 and closing cor. on line between Sec's 23 and 24.
 Deposit limestone 1x4x4 ins. marked with a + 14 ins. in ground over
 which set a limestone 22x8x8 ins. marked + on top for exact point
 CC on W. and 5 ES 665 on SW face. Raise mound of stone 3 ft. base
 2 ft. high on line N. 87° 06' W. of cor. Whence from cor.
 a pinon 7 ins. in dia. brs. S. 53° 30' E. 29 lks. dist.
 blazed and scribed CC 5 ES 665 + BT
 a juniper 6 ins. in dia. brs. S. 47° W. 176 lks. dist.
 blazed and scribed CC 5 ES 665 + BT

EXCHANGE
~~HOMESTEAD~~ ENTRY SURVEY NO. 665

COCONINO NATIONAL FOREST

STATE OF ARIZONA

Chains

Thence S. 0° 03' E.

Over gently rolling land through pinon and juniper.

3.42 To cor. No. 6

Identical with 1/4 cor. between Sec's 23 and 24 previously described.

I adopt 1/4 cor. for cor. No. 6 of this survey and alongside to W. set limestone 24x3x6 ins. 12 ins. in ground to solid rock, marked 6 ES 665 on W. face. Rebuild mound stone around cor. Whence from cor.

a juniper 7 ins. in dia. brs. N. 52° 30' W. 27 lks. dist. blazed and scribed 6 ES 665 + BT

a juniper 8 ins. in dia. brs. S. 72° W. 65 lks. dist. blazed and scribed 6 ES 665 + BT

Thence S. 0° 01' E.

Adopting record course and distance on line between Sec's 23 and 24 S/2.

40.00 To cor. No. 7

Identical with cor. Sec's 23, 24, 25 and 26 an iron post 2 ins. in dia. 12 ins. above ground with brass cap marked and witnessed as described by Office of Public Surveys.

I adopt Sec. cor. for cor. No. 7 of this survey alongside to NW set limestone 24x8x10 ins. 14 ins. in ground marked 7 ES 665 on NW face. Whence

a juniper 6 ins. in dia. brs. N. 79° W. 152 lks. dist. blazed and scribed 7 ES 665 + BT

a pinon 7 ins. in dia. brs. N. 46° W. 201 lks. dist. blazed and scribed 7 ES 665 + BT

Thence N. 89° 54' W.

Adopting record course and distance on line between Sec's 23 and 26 E/2

39.96 To cor. No. 8

Identical with 1/4 cor. between Sec's 23 and 26 an iron post 1 in. in dia. 10 ins. above ground, with brass cap marked and witnessed as described by Office of Public Surveys. I adopt the 1/4 cor. for

40

EXCHANGE
HOMESTEAD ENTRY SURVEY NO. 665

COCONINO NATIONAL FOREST

8.

STATE OF ARIZONA

Chains cor. No. 8 of this survey and alongside to N. set limestone 22x4x7
 ins. 14 ins. in ground marked 8 ES 665 on N. face. Whence
 a juniper 10 ins. in dia. brs. N. 47° E. 9 lks. dist. blazed
 and scribed 8 ES 665 + BT
 a juniper 7 ins. in dia. brs. N. 87° W. 136 lks. dist. blazed
 and scribed 8 ES 665 + BT

 Thence N. 89° 54' W.

Adopting record course and dist. on line between Sec's 23 and 26 W/2
 39.96 To cor. No. 1 previously described and place of beginning.

July 16, 1938.

 Total area 323.19 acres

 Survey completed July 16, 1938.

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

- 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
 TABLING AND CALCULATIONS OF ~~HOMESTEAD~~ SURVEY NO. 665, STATE OF ARIZONA

8-2349

CORNERS.	BEARING.	DISTANCE.	LATITUDES.		DEPARTURES.		DOUBLE M. D.		N. AREAS.		S. AREAS.	
			NORTH.	SOUTH.	EAST.	WEST.						
1 - 2	N. 0° 03' W.	39.84	39 ⁸³ 84				03		03	1	19	
2 - 3	S. 87° 06' E.	52.13		2 64 ⁶⁶	52 06 ⁰⁷			52 07			138	51
3 - 4	N. 2° 54' E.	7.57	7 56		38			104 52	790	17		
4 - 5	S. 87° 06' E.	27.51		1 39	27 47			132 37			183	99
5 - 6	S. 0° 03' E.	3.42		3 42 ⁰²				159 84			546	65
6 - 7	S. 0° 01' E.	40.00		40 00	01			159 85			6,394	00
7 - 8	N. 89° 54' W.	39.96	07 ⁰⁵				39 96 ⁹⁵	119 91	6	00		
8 - 1	N. 89° 54' W.	39.96	07 ⁰⁵				39 96 ⁹⁵	40 01	2	00		
		250.39	47 ⁴⁹ 54	47 ⁹ 45	79 ³ 92		79 ³ 95		799	36	7,263	15
			47 45				79 92				799	36
	Error in lat. and dep.		09				03				20 16.463	79
											323	19 acres
	Closing error 1/2639											

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STATE OF TEXAS

COUNTY OF ...

...
1-1
1-2
1-3
1-4
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1-6
1-7
1-8
1-9
1-10

STATE OF TEXAS ...

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

TABLING AND CALCULATIONS OF ~~HOMESTEAD SURVEY~~ SURVEY NO. 665, STATE OF ARIZONA Sec. 23 Closure

8-2349

CORNERS.	BEARING.	DISTANCE.	LATITUDES.				DEPARTURES.				DOUBLE M. D.	N. AREAS.	S. AREAS.	
			NORTH.		SOUTH.		EAST.		WEST.					
1/4 Cor. 23-24 - Cor. 13-14-23-24	N. 0° 03' W.	40.01	40	01					03					
N Bdy (Record) Sec. 23	S. 89° 57' W.	79.86							79	86				
N/2 W Bdy. (Retraced)	South	39.86			39	86								
S/2 W Bdy (")	S. 0° 03' E.	40.01			40	01		03						
S Bdy. (Record)	S. 89° 54' E.	79.92					79	92						
S/2 E Bdy. (Record)	N. 0° 01' W.	40.00	40	00						01				
		319.66	80	01	80	08	79	95	79	90				
	Closing error 1/3716													

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Project name: 1/1/10

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APPROVAL
PUBLIC SURVEY OFFICE

~~Office of the United States Surveyor General,~~

Phoenix, Arizona, December 27, 1938

The foregoing field notes of ~~Homestead Entry Survey No.~~

EXCHANGE SURVEY NO. 665

executed by Thomas F. Myers, Associate C.E. Inspector, Forest Service
[Forest Service Title.]
under his special instructions, dated June 30, 1938, ~~xxxx~~, 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.

