

**HES**

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**4**

**9**







OATH OF ASSISTANTS

We hereby certify that we assisted  
**Chief Surveyor, Forest Service**  
[Forest Service Title.]

**Thomas F. Myers**  
in surveying all those

parts or portions of Homestead Entry Survey No. **649**, 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 **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.**

*C. A. Moberg*  
Chainman  
*Bonnie M. Brewer*  
Chainman

Subscribed and sworn to before me this **3rd** day of

**March**, 19 **27**

*Thomas F. Myers*  
Chief Surveyor

OATH OF SURVEYOR

I, **Thomas F. Myers, Chief Surveyor, Forest Service**  
[Forest Service Title.]

do solemnly swear that, in strict conformity with the special instruc-  
tions of the United States Surveyor General for **Arizona**, dated  
**August 20**, 19 **26**, and the laws of the United States, I have  
well, faithfully, and truly, in my own proper person, surveyed a tract  
of land

~~XX~~, for **Exchange**  
, under the Act of **March 20, 1922** and **May 11, 1926**  
the same to be known as ~~XXXXXXXXXXXXXXXXXXXX~~ Survey No. **649**  
situated within the **Exchange** **Sitgreaves** National Forest, in  
surveyed Section **23**, Township **9 N.**, Range **22 E.**, ~~xxx~~  
~~XX~~

of the **Gila and 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

*Thomas F. Myers*  
Chief Surveyor  
[Forest Service Title.]

Subscribed and sworn to before me this **8th** day of

*March*, 19**27**.

*Bonnie M. Brewer*  
Notary Public



My Commission Expires Sept. 30, 1928



SITGREAVES 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 May 11, 1926. Surveyed under special instructions of the Office of Public Surveys for the State of Arizona, dated August 20, 1926; surveyed under the Acts of March 20, 1922, and May 11, 1926. Survey commenced March 1, 1927, and executed with a Berger Light Mountain Transit No. 12484.

I test the adjustments of the transit and make necessary corrections.

All distances are horizontal and were reduced from measurements made directly on the slopes with a 400 link steel tape. The slope angles were determined with a clinometer.

March 1, 1927.

At my station near Cor. No. 1 of HES. 206, hereinafter described in Latitude  $34^{\circ}10'33''$  N., Longitude  $109^{\circ}58'30''$  W. from Forest Service Base Map, at 5 h. 10 m. 32 s. p.m. l.m.t., I observe Polaris with telescope direct, reading an angle of  $90^{\circ}10'00''$  from star to right to reference mark; about 20 chs. distant.

Greenwich M.T. U.C. Polaris, March 1, 1927, 3 h. 0.7m. 00s. p.m.  
Correction for Longitude 1.2m

l.m.t. U.C. Polaris, March 1, 1927, 2 h. 59.5m. 00s. p.m.

l.m.t. Observation Polaris, March 1, 1927, 5 h. 10.5m. 00s. p.m.

Hour angle 2 h. 11.0m. 00s.

Azimuth of Polaris  $0^{\circ}43.1' W.$

Bearing of reference mark  $N.89^{\circ}26'.9 E.$

At same station at 5 h. 12 m. 50 s. p.m. l.m. t., I again observe Polaris with telescope reversed reading an angle of  $90^{\circ}10'$  from star to right to same reference mark.

l.m.t. U.C. Polaris March 1, 1927, 2 h. 59.5 m. p.m.

l.m.t. Obsn. Polaris March 1, 1927, 5 h. 12.8 m. p.m.

Hour angle 2 h. 13.3 m.



SITGREAVES NATIONAL FOREST

STATE OF ARIZONA.

2.

Chains

Azimuth of Polaris  $0^{\circ}43'.8$  W.

Bearing of Reference Mark  $N.89^{\circ}26'.2$  E.

The bearing of reference mark as determined from the mean of the two observations is  $N. 89^{\circ}26'.6$  E. I accept bearing of reference mark as  $N. 89^{\circ}27'$  E., and from the corresponding meridian all courses of this survey were deflected by sustained angulation.

Note: My watch is set for 105th meridian time and compared with Western Union at Albuquerque on February 28, 1927, and found to be correct.

RETRACEMENT.

March 1, 1927.

A determination of the position for Cor. Secs. 13, 14, 23 and 24 was made by C. A. Long, District Engineer, Forest Service, on August 24, 1926, by double proportionate measurements from the

Section Corners 1 mile north and south and from the  $\frac{1}{4}$  Sec. Corners  $\frac{1}{2}$  mile East and West. The position thus determined results in an elimination of the road exception along the West boundary of HES. 206 (surveyed by C.A. Long, September 2 to 7, 1914).

The position of the Cor. Secs. 13, 14, 23 and 24 determined by me by running  $S 89^{\circ}27'$  W. 50 lks. from Cor. No. 1 of HES. 206, thence  $S. 0^{\circ}46'$  W. 19.72 chs. places this cor. on the east side of a cattle guard and Cor. of fence from which the fences bear South and East.

By using the position for the Cor. thus determined the retracement of the Sec. lines North one mile and East  $\frac{1}{2}$  mile agrees with the record of HES. 206. This position is further verified by the fact that the point falls in the edge of an old mound of small stone similar to those of the other original corners which are in place.

I therefore reestablish the corner of Sections 13, 14, 23 and 24 from the record of H.E.S. 206 as follows:

Beginning at the Cor. of Secs. 11, 12, 13 and 14, a malpais stone, marked and witnessed as described by the Office of Public Surveys.

Thence  $S. 0^{\circ}46'$  W.



EXCHANGE  
~~HOME-STEAD-ENTRY~~ SURVEY NO. 649

SITGREAVES NATIONAL FOREST

3.

STATE OF ARIZONA.

Chains	Retracing line between secs. 13 and 14.
20.22	Fall 50 lks. west of Cor. No. 2 of H.E.S. 206, a malpais stone 9x7x10 ins. above ground, marked and witnessed as described by the Office of Public Surveys.
39.44	1/4 Sec. Cor. has been destroyed. Point for Cor. falls in center of road.
59.18	Fall 50 lks. S. 89°27' W. of Cor. No. 1 of H.E.S. 206, a basalt stone 6x6x10 ins. above ground, marked and witnessed as described by Office of Public Surveys. Cor. No. 9 of H.E.S. 206, a malpais stone 8x4x10 ins. above ground, marked and witnessed as described by Office of Public Surveys, flag on which is plainly visible; bears N. 89°27' E. 19.96 lks. distant.
78.90	Set temporary point for Cor. Secs. 13, 14, 23 and 24. Point is on east side of road and falls in small mound of stone, which is just north of Cor. of fence. Fences bear south and east.
	From the temporary point for Cor. Secs. 13, 14, 23 and 24. Thence S. 89°50' E.
	Retracing line between Secs. 13 and 24 along outside of fence.
40.32	Intersect the 1/4 cor. between Secs. 13 and 24, which is a basalt stone, set in small mound of stone, marked and witnessed as described by Office of Public Surveys. True line is S. 89°50' E. 40.32 chains, which agrees with record in H.E.S. 206. At the point for Cor. Secs. 13, 14, 23 and 24, as above determined, I set an iron post 3 ft. long 2 ins. dia. 24 ins. in ground, marked on brass cap. T. 9 N R 22 E on North 1926 on South rim S 13 in NE S 14 in NW S 23 in SW and S 24 in SE quadrants, from which I take new bearing tree as follows:



Chains      A yellow pine 16ins. dia. blazed and scribed T 9 N R 22 E S 23  
 bears S 8°56' W. 135 lks.

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From the Cor. Secs. 13, 14, 23 and 24, previously described .  
 Thence West  
 On random line between Secs. 14 and 23 - East half.

39.47      Fall 25 lks. north of 1/4 Sec. Cor. between Secs. 14 and 23, a  
 basalt stone, marked and witnessed as described by the Office  
 of Public Surveys.  
 True line is S. 89°38' W. 39.47'

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Return to Cor. Secs. 13, 14, 23 and 24, previously described.  
 Thence South.

Retracing line between Secs. 23 and 24.

80.38      Fall 56 lks. West of Cor. Secs. 23, 24, 25 and 26, an iron post  
 2 ins. dia. 12 ins. above ground, with brass cap, marked and  
 witnessed as described by the Office of Public Surveys.

---

Thence N. 0°24' W.  
 On true line between Secs. 23 and 24.

20.095      Set a malpais stone 20x10x10 ins., 12 ins. in ground, marked 1/16  
 on W. face for 1/16 Sec. Cor. on East boundary SE/4 Sec. 23;  
 raise mound of stone West of Cor. No witnesses available.

40.19      Set a malpais stone 20x8x12 ins. in ground, marked 1/4 on West  
 face for reestablished 1/4 Sec. Cor. between Secs. 23 and 24. No  
 witnesses available. Point is in edge of cultivated field.

80.38      The Cor. Secs. 13, 14, 23 and 24, previously described.

March 1, 1927.

March 2, 1927.  
 From the Cor. to Secs. 23, 24, 25 and 26 , previously described.  
 Thence West.  
 On random line between Secs. 23 and 26 (Record S. 89°45' W.)

40.02      Fall 38 1/2 lks. N. of 1/4 Sec. Cor. between Secs. 23 and 26, an  
 iron post firmly set, marked and witnessed as described by the



Chains Office of Public Surveys.

Thence N.  $89^{\circ}27'$  E.

On true line between Secs. 23 and 26.

20.01 Set a malpais stone 20x18x6 ins. 12 ins. in ground, marked + on top and  $1/16$  on N. face for  $1/16$  Sec. Cor. on South boundary of SE/4 Sec. 23. Raise mound of stone 3 ft. base, 2 ft. high north of Cor.

40.02 Intersect the Cor. Secs. 23, 24, 25 and 26, previously described.

---

From the  $1/4$  Sec. Cor. between Secs. 14 and 23, previously described.

Thence South.

On random meridional line through center Sec. 23.

80.68 Intersect the  $1/4$  Sec. Cor. between Secs. 23 and 26 previously described.

Thence North.

On true Meridional  $1/4$  Sec. line through center Sec. 23.

20.17 Set temporary point for  $1/16$  Sec. Cor. center S/2.

40.34 Set temporary point center  $1/4$  Sec. Cor.

80.68 Intersect  $1/4$  Sec. Cor. between Secs. 14 and 23 previously described.

---

Return to  $1/4$  Sec. Cor. between Secs. 23 and 24 previously described.

Thence West.

On random latitudinal line through center Sec. 23.

79.63 Fall 35 lks. North of point for  $1/4$  Sec. Cor. between Secs. 22 and 23, which I restore from witness trees. The original corner has been destroyed. Set a malpais stone 25x6x18 ins. 18 ins. in ground, marked  $1/4$  on West face, whence:

An oak 10 ins. dia. now badly decayed, marked  $1/4$  S B T bears N  $66^{\circ}00'$  W. 65 lks. (original BT.)

A yellow pine 20 ins. dia. marked  $1/4$  S BT bears S.  $85^{\circ}$  E. 13 lks. (original BT)

The notes describe this bearing tree as being an oak. I cut into the pine tree and find original marks. I count the growth rings, which number 43, which would fix the time it was blazed and scribed



Chains

as 1883.

I establish new bearing trees.

A yellow pine 24 ins. dia. blazed and scribed 1/4 S 23 BT bears

S. 63°E. 41 lks.

A yellow pine 20 ins. dia. blazed and scribed 1/4 S 22 BT bears

S. 64°45' W. 147 lks.

Thence N. 89°45' E.

On true latitudinal 1/4 Sec. line through Sec. 23.

39.89

Intersect meridional 1/4 Sec. line north 20 lks. from temporary point for center 1/4 Sec. Cor. I move temporary points for center 1/4 Sec. Cor. and 1/16 Sec. Cor. center S/2 North 20 and 10 lks. respectively.

59.76

Set temporary point for 1/16 Sec. Cor. center E/2.

79.63

The 1/4 Sec. Cor. between Secs. 23 and 24 previously described.

---

Return to 1/16 Sec. Cor. on East boundary Sec. 23 - SE/4 previously described.

Thence West.

On random latitudinal 1/16 Sec. line through center SE/4.

39.88

Fall 21 lks. North of temporary 1/16 Sec. Cor. center S/2.

Thence N. 89°42' E.

On true latitudinal 1/16 Sec. line through center SE/4.

19.94

Set temporary 1/16 Sec. Cor. center SE/4.

39.88

The 1/16 Sec. Cor. on East boundary Sec. 23 SE/4 previously described.

---

Return to 1/16 Sec. Cor. on South boundary Sec. 23, SE/4 previously described.

Thence North.

On random meridional 1/16 Sec. line through center SE/4.

20.18

Intersect latitudinal 1/16 Sec. line N. 89°42' E. 7 lks. from temporary point for 1/16 Cor. center SE/4 previously recorded.

40.30

Fall 15 lks. East of temporary 1/16 Sec. Cor. center E/2 previously recorded.



EXCHANGE  
HOMESTEAD-ENTRY SURVEY NO. 649

SITGREAVES NATIONAL FOREST

STATE OF ARIZONA.

Chains

True line is S. 0°13' E. 40.30 chs.

I move temporary point for 1/16 Sec. Cor. center SE/4, S. 89°42'

W. 1/2 lk.

Whence temporary 1/16 center S/2 bears S. 89°42' W. 19.935 chs.

1/16 Cor. on E. boundary SE/4 bears N. 89°42' E. 19.945 chs.

March 2, 1927.

BOUNDARIES OF EXCHANGE SURVEY NO. 649

March 3, 1927.

Beginning at Cor. No. 1, also 1/16 Sec. Cor. center E/2 Sec. 23.

Deposit a malpais stone 2x3x4 ins. marked with a + 16 ins. in

ground, over which set a malpais stone 24x8x12 ins., marked +

on top and 1 ES 649 on SW face and 1/16 on E. face; raise mound

of stone 3 ft. base, 2 ft. high SW. of Cor., whence:

A pine 8 ins. dia. blazed and scribed 1/16 I ES 649 + BT bears

S. 13°48' E. 46 lks.

A pine 24 ins. dia. blazed and scribed 1/16 I ES 649 + BT bears

N. 29°58' W. 56 lks.

The 1/4 Sec. Cor. between Secs. 23 and 24 previously described

bears N. 89°45' E. 19.87 chs. distant.

Latitude 34°09'41" N. Longitude 109°58'50" W. from Forest Service  
Base Map.

The Magnetic declination at 8 a.m. is 14°30' E., mean Mag. decl.

14°27' E.

Thence S. 0°13' E.

On meridional 1/16 Sec. line through center SE/4 Sec. 23.

19.92 Center line bears East and South.

20.12 To Cor. No. 2 and 1/16 Sec. Cor. at center SE/4 Sect 23.

Deposit a malpais stone 3x3x4 ins., marked with a + 16 ins. in

ground, over which set a malpais stone 24x10x12 ins., marked +

on top, 2 ES 649 on NW. face and 1/16 on E. face, whence;

A pine 26 ins. dia. blazed and scribed 2 + ES 649 BT bears S. 51°

20' W. 101 lks.



EXCHANGE

HOMESTEAD ENTRY SURVEY NO. 649

SITGREAVES NATIONAL FOREST

8.

STATE OF ARIZONA.

Chains

An oak 16 ins. dia., blazed and scribed 2 + ES 649 BT bears N. 56°50' W. 155 lks.

The 1/16 Sec. Cor. on E. Boundary SE/4 Sec. 23 bears N. 89°42' E. 19.945 chs. and

1/16 Sec. Cor. on S. boundary SE/4 Sec. 23 bears S. 0°13' E. 20.18 chs.

Thence S. 89°42' W.

Along latitudinal 1/16 Sec. line through center SE/4 Sec. 23.

.21 Road, bears North and South.

.54 Road to Lakeside Station bears N. and S.

3.30 To Cor. No. 3.

Deposit a malpais stone 3x4x4 ins., marked with a + 16 ins. in ground, over which set a malpais stone 24x10x14 ins., marked + on top and 3 ES 649 on NE face; raise mound of stone 2 ft. base, 1 1/2 ft. high NE. of Cor., whence:

An oak 16 ins. dia., blazed and scribed 3 + ES 649 bears N. 66° 14' E. 74 lks.

A pine 12 ins. dia. blazed and scribed 3 + ES 649 bears S. 15° E. 62 lks.

Thence N. 36°52' W.

Along edge of dense young pine and along old fence line.

8.79 To Cor. No. 4.

Deposit a malpais stone 2x4x4 ins., marked with a + 16 ins. in the ground, over which set a malpais stone 24x4x14 ins., marked a + on top and 4 ES 649 on E. face.

Raise mound of stone 3 ft. base, 2 ft. high E. of Cor., whence:

A yellow pine 14 ins. dia., blazed and scribed 4 + ES 649 BT bears N. 69°47' E. 85 lks. distant.

A yellow pine 12 ins. dia., blazed and scribed 4 + ES 649 BT bears N. 66°28' W. 33 lks. distant.



EXCHANGE  
HOMESTEAD ENTRY SURVEY NO. 649

SITGREAVES NATIONAL FOREST

STATE OF ARIZONA.

#9

Chains	Thence N. 3° 40' E.
	Descend gradual N. slope through pine reproduction and along old fence line.
3.76	To Cor. No. 5.
	<p>Deposit a malpais stone 4x4x8 ins., marked with a + 16 ins. in the ground, over which set a malpais stone 24x8x12 ins., marked a + on top and 5 ES 649 on SE face. Raise mound of stone 3 ft. base, 2 ft. high SE. of Cor., whence:</p> <p>An oak 12 ins. dia. blazed and scribed 5 + ES 649 BT bears N. 54°47' E. 91 lks. distant.</p> <p>A yellow pine 26 ins. dia. blazed and scribed 5 + ES 649 BT bears S. 41°00' E. 61 lks. distant.</p>
	Thence N. 49°47' E.
	Along gradual N. slope, through scattering pine timber, and along old fence line.
1.00	Cor. of fence from which fences bear west and N. 49°47' E. Continue along E. side of fence 3 lks. distant.
2.78	<p>To Cor. No. 6, a malpais stone in place, showing 14x20x6 ins. above ground. I chisel a + for the point and 6 ES 649 on SE face. Raise mound of stone 3 ft. base, 2 ft. high SE. of Cor., whence:</p> <p>An oak 14 ins. dia., blazed and scribed 6 + ES 649 BT bears S. 12° 15' W. 14 lks. distant.</p> <p>A yellow pine 6 ins. dia., blazed and scribed 6 + ES 649 BT bears S. 70°15' E. 15 lks. distant.</p>
	Thence N. 17°36' E.
	Through dense pine reproduction and along E. side of wire fence 3 lks. distant.
3.18	To Cor. No. 7.
	Deposit a malpais stone 4x4x5 ins., marked with a + 18 ins. in the ground, over which set a malpais stone 28x6x12 ins., marked



EXCHANGE  
HOMESTEAD-ENTRY SURVEY NO. 649

SITGREAVES NATIONAL FOREST

#10

STATE OF ARIZONA

Chains

a + on top and 7 ES 649 on E. face. Raise mound of stone 3 ft. base, 2 ft. high East of Cor., whence:

A yellow pine 18 ins. dia., blazed and scribed 7 + ES 649 BT bears S. 54°25' E. 70 lks. distant.

Thence N. 3°52' E.

Along E. side of wire fence 4 lks. distant.

4.50 To Cor. No. 8 on latitudinal 1/4 Sec. line through center of Sec.

23, Deposit a malpais stone 3x4x4 ins., marked with a + 18 ins.

in the ground, over which set a malpais stone 28x10x14 ins.,

marked a + on top and 8 ES 649 on SE face. Raise mound of stone

3 ft. base, 2 ft. high SE. of Cor., whence:

A yellow pine 26 ins. dia., blazed and scribed 8 + ES 649 BT.

bears S. 79°15' E. 60 lks. distant.

An oak 12 ins. dia., blazed and scribed 8 + ES 649 BT bears S.

2°08' E. 97 lks. distant.

The temporary point for center 1/4 Sec. Cor. of Sec. 23, previ-

ously recorded bears S. 89°45' W. 15.02 chs. distant.

Thence N. 89°45' E.

Along latitudinal 1/4 Sec. line through Sec. 23.

.59 Fence, bears WNW and ESE.

1.00 Road bears N. and S.

1.70 Cor. fence, fences bear N. and West.

3.50 Billie Creek, 10 lks. wide, 6 ins. deep, course NW.

4.85 To Cor. No. 1, the place of beginning.

AREA

Total Area - - - - - 12.58 Acres.

Survey completed March 3, 1927.

*Thomas J. Meyer*  
Chief Surveyor



- 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.

TABLING AND CALCULATIONS OF HOMESTEAD ENTRY SURVEY NO. 649, STATE OF Arizona

CORNERS.	BEARING.	DISTANCE.	LATITUDES.		DEPARTURES.		DOUBLE M. D.	N. AREAS.		S. AREAS.	
			NORTH.	SOUTH.	EAST.	WEST.					
1 - 2	S 0°13' E.	20.12		20 12 <sup>10</sup>		08 <sup>10</sup>		17 04		342 50	
2 - 3	S.89°42' W.	3.30		02		3 30		13 84			28
3 - 4	N.36°52' W.	8.79	7 03			5 27		5 27	37 05		
4 - 5	N. 3°40' E.	3.76	3 75		24			24	90		
5 - 6	N. 49°47' E.	2.78	1 80		2 12			2 60	4 68		
6 - 7	N.17°36' E.	3.18	3 03		96			5 68	17 21		
7 - 8	N. 3°52' E.	4.50	4 49		30			6 94	31 16		
8 - 1	N.89°45' E.	4.85	02		4 85			12 09	24		
		51.28	20 12	20 14 <sup>2</sup>	8 55 <sup>7</sup>	8 57		91 24		342 78	
				20 12		8 55				91 24	
	Error in Lat. and Dep.			02		02					
	Closing error 1/1813									20/ 251 54	
										12 58 acres	Et
	Closure E/2 Sec. 23.										
	North	80.68	80 68								
	N. 89°38' E.	39.47	25		39 47						
	S. 0°24' E.	80.38		80 38	56						
	S. 89°27' W.	40.02		38		40 02					
			80 93	80 76	40 03	40 02					
			80 76		40 02						
			17		01						

13

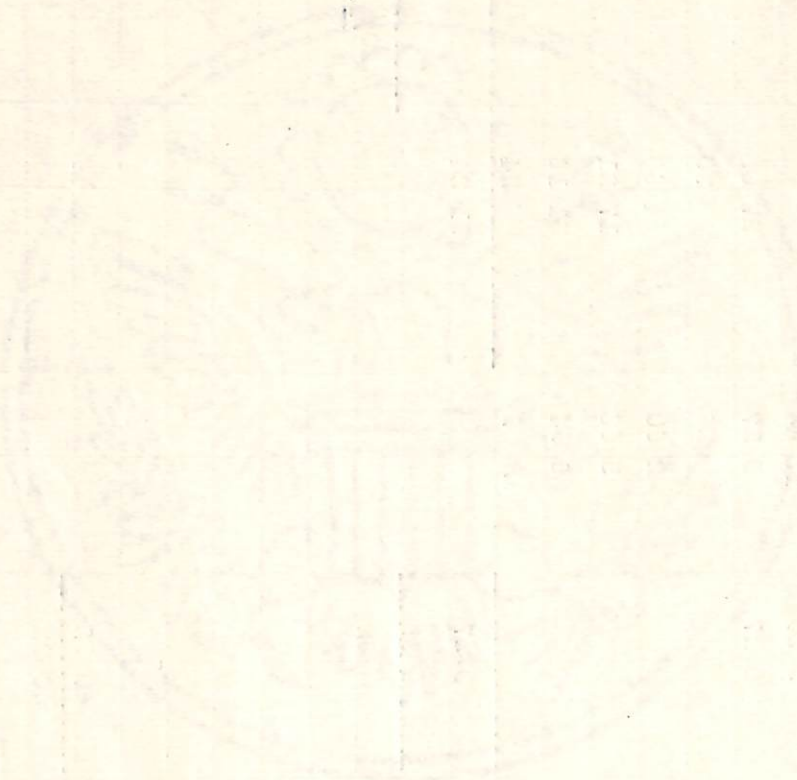


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APPROVAL

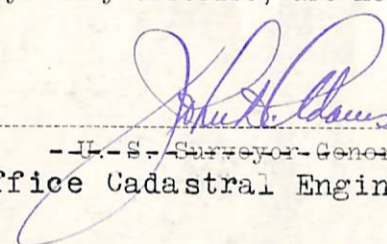
PUBLIC SURVEY OFFICE,  
~~Office of the United States Surveyor General,~~

Phoenix, Arizona, March 28, 1927

The foregoing field notes of ~~Homestead Entry~~ <sup>Exchange</sup> Survey No.

649

executed by **Thomas F. Myers, Chief Surveyor,** [Forest Service Title]  
under his special instructions, dated **August 20**, 1926, 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.~~  
**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.

**John D. Adams**  
-----  
~~U. S. Surveyor General.~~  
**Office Cadastral Engineer**





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