

HES

00647

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OATH OF ASSISTANTS

We hereby certify that we assisted **Thomas F. Myers** Chief Surveyor, Forest Service [Forest Service Title.] in surveying all those parts or portions of ~~XXXXXX~~ Exchange ~~XXXXXX~~ Survey No. 647, in the State of ~~XXXXXX~~ 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 ~~XXXXXX~~ Office of ~~XXXXXX~~ Public Surveys 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.

L. S. Katchner
Forest Ranger
Green Whipple

Subscribed and sworn to before me this 21st day of April, 1926

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 instructions of the United States Surveyor General for Arizona, dated April 13, 1926, and the laws of the United States, I have well, faithfully, and truly, in my own proper person, surveyed a tract of land offered to the United States under the Exchange Act of March 20, 1922, by Frank and Elwin Ellsworth

, No. ~~XXXXXX~~, dated ~~XXXXXX~~, 19 ~~XXXXXX~~, for the same to be known as ~~XXXXXX~~ Exchange ~~XXXXXX~~ Survey No. 647, situated within the **Sitgreaves** National Forest, in surveyed Section 29, Township 10 N., Range 22 E., and surveyed Section ~~XXXXXX~~, Township ~~XXXXXX~~, Range ~~XXXXXX~~,

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

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

Subscribed and sworn to before me this 13th day of July, 1926

Bonnie M. Brewer
Notary Public

My Commission Expires Sept. 30, 1928



SITGREAVES NATIONAL FOREST

STATE OF ARIZONA

1.

Chains Surveyed a tract of land offered by Frank and Elwin Ellsworth, for exchange.

Situated in Sec. 29, T. 10 N., R. 22 E., (surveyed and accepted), Gila and Salt River Base and Meridian, Sitgreaves National Forest, Arizona.

Surveyed under special instructions from the Office of Public Surveys for the State of Arizona, dated April 13, 1926.

Surveyed under the Acts of March 20, 1922 and February 10, 1925.

Survey commenced April 13, 1926 and executed with a Buff and Buff transit No. 10019, 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.

April 13, 1926.

At the Cor. of Secs. 20, 21, 28 and 29, T. 10 N., R. 22 E., hereinafter described, in latitude $34^{\circ}14'15''$ N., longitude $110^{\circ}01'$ W. from Forest Service Base Map, at 9h 06m a.m. app. time, I set off $8^{\circ}56'$ N. on decl. arc and $34^{\circ}14'$ on lat. arc and determine a meridian with the solar. I check this meridian with a series of two altitude obsns. of the sun for Azimuth as follows:

My watch is set for standard 105th Meridian time and checked with Western Union Clock at Williams on April 10 and found to agree within 20 seconds.

1st obsn.

Pos. Tel. Sun	Watch Time	Horizontal Angle	Vertical Angle
Direct \pm	9h 27m 37s	$68^{\circ}06'$	$42^{\circ}50'$
Reversed \mp	9h 29m 18s	$67^{\circ}01'$	$43^{\circ}39'$
Mean		$67^{\circ}33'30''$	$43^{\circ}14'30''$

2nd obsn.

Direct \pm	9h 30m 56s	$67^{\circ}22'$	$43^{\circ}29'$
Reversed \mp	9h 32m 20s	$66^{\circ}21'$	$44^{\circ}14'$
Mean		$66^{\circ}51'30''$	$43^{\circ}51'30''$

Mean declination for 2 obsns. is $8^{\circ}56'24''$ N.

Chains The mean of the two obsns. differ by $0^{\circ}0'07''$ from the meridian as determined by the solar. From the meridian thus determined all the courses of this survey were deflected by sustained angulation.

Retracement -

April 13, 1926.

Beginning at the Cor of Secs. 20, 21, 28 and 29, T. 10 N., R. 22 E., a sandstone $9 \times 12 \times 10$ ins. above ground, marked and witnessed as described by the office of Public Surveys.

Thence S. $89^{\circ}40'$ W.

Retracing line bet. Secs. 20 and 29 E/2.

40.21 Fall 5 links N. of point for $1/4$ Cor. bet. Secs. 20 and 29. Cor. is missing. I restore Cor. from call of witness tree - yellow pine 24 ins. dia. S. $2^{\circ}00'$ E., 216 lks. plainly marked $1/4$ S. BT. The point for other witness tree recorded as yellow pine 5 ins. dia. S. 6° W. 144 lks. falls in cultivated field.

At point for Cor. I set a sandstone $18 \times 10 \times 12$ ins. (no longer stone available) 12 ins. in ground - mkd. $1/4$ on N. face - whence Yellow pine 24 ins. dia. bears S. $2^{\circ}00'$ E. 216 lks.

Marked $1/4$ S. BT. (Old BT).

A yellow pine 15 ins. dia. bears N. $7^{\circ}00'$ W. 145 lks. The blaze on this tree was cut into and showed marks of old witness tree.

This tree is erroneously recorded in original notes as S 6° W 144 lks.

True line is S. $89^{\circ}36'$ W. 40.21 chs.

Thence S. $89^{\circ}40'$ W.

Retracing line bet. Secs. 20 and 29 W/2.

39.95 The Cor. of Secs. 19, 20, 29 and 30, a sandstone $7 \times 10 \times 10$ ins. above ground, marked and witnessed as described by office of Public Surveys.

April 13, 1926.

SITGREAVES NATIONAL FOREST

STATE OF ARIZONA

31

Chains April 14, 1926.

From the Cor. of Secs. 20, 21, 28 and 29 previously described.

Thence S. $0^{\circ}05'$ E.

Retracing line bet. Secs. 28 and 29.

40.00 Point for $1/4$ Cor. falls in plowed ground. I find original cor. stone in pile of stone on fence line about 4 chs. NW of point for Cor.

80.68 Fall 9 links W. of Cor. Secs. 28, 29, 32 and 33 a sandstone $5 \times 10 \times 20$ ins; (Record $15 \times 10 \times 25$) lying on top of ground in small mound of stone. Marked and witnessed as described by the Office of Public Surveys. At same point I reset same stone 10 ins. in ground.

Thence N. $0^{\circ}09'$ W.

On true line bet. Secs. 28 and 29

40.34 At this point I set original $1/4$ Cor. stone, a sandstone $16 \times 10 \times 6$ ins. marked $1/4$ on W. face, 16 ins. below surface, N. and alongside cor. stone ~~xxx~~ set a cedar post 6' long 8" dia. 24" in the ground as a marker for $1/4$ cor. The gable on S. side of A. J. Merrill's house bears N. $48^{\circ}00'$ W. Center of stone chimney of Frank Ellsworth's house bears S. $6^{\circ}02'$ W.

A yellow pine 30" dia. Hazed and scribed $1/4$ S 29 BT bears N. 62° $55'$ W. 262 lks (New BT).

60.51 Set temporary point for $1/16$ sec. cor.

80.68 Cor. Secs. 20, 21, 28 and 29 previously described.

From Cor. Secs. 28, 29, 32 and 33 previously described.

Thence S. $89^{\circ}57'$ W.

Retracing line bet. Secs. 29 and 32 E/2.

40.01 Fall 13 links N. of $1/4$ cor. bet. Secs. 29 and 32, a sandstone $5 \times 14 \times 20$ ins. (Record lava stone $18 \times 10 \times 6$) lying on top of ground in edge of small mound of stone, marked as described by Office of Public Surveys. I reset same stone 12 ins. in ground and raised mound of stone west of cor.

A pine stump 14 ins. dia. - tree sawed and lying on top of stump as it fell bears N. $9^{\circ}30'$ W. $8\frac{1}{2}$ links marked $1/4$ S. BT. (Old bearing tree but not recorded in original field notes.)

Thence N. $89^{\circ}46'$ E.

On true line bet. Secs. 29 and 32

150

EXCHANGE
~~HOMESTEAD ENTRY~~ SURVEY NO. 647

SITGREAVES NATIONAL FOREST

4.

STATE OF ARIZONA

Chains
24.50

Set temp. point for cor. No. 14 of this survey hereinafter described.

40.01

Cor. secs. 28, 29, 32 and 33 previously described.

Return to 1/4 cor. bet. Secs. 29 and 32 previously described.

Thence S. 89°57' W.

Retracing line bet. Secs. 29 and 32 W/2.

40.10

Fall 102 lks. N. of cor. Secs. 29, 30, 31 and 32, a sandstone
10x14x10 ins. above ground well set, marked and witnessed as de-
scribed by Office of Public Surveys.

True line is S. 88°30' W. 40.11 chains.

April 14, 1926.

April 15, 1926.

Thence N. 0°05' W.

Retracing line bet. Secs. 29 and 30 S/2.

41.42

Fall 2 lks. East of 1/4 cor. bet. Secs. 29 and 30., a sandstone
8x12x14 ins. above ground well set, marked and witnessed as de-
scribed by Office of Public Surveys.

True line is N. 0°07' W. 41.42 chains.

Thence N. 0°05' W.

Retracing line bet. Secs. 29 and 30 N/2.

39.90

Fall 27 lks. East of cor. secs. 19, 20, 29 and 30 previously de-
scribed.

Thence S. 0°28' E.

On true line bet. Secs. 29 and 30 N/2.

19.95

Set temp. point for 1/16 cor. and cor. No. 3 of this survey herein-
after described.

39.90

The 1/4 cor. bet. Secs. 29 and 30 previously described.

April 15, 1926.

April 16, 1926.

From the 1/4 sec. cor. bet. secs. 20 and 29 heretofore described.

Thence south on a random meridional 1/4 sec. line through center of
sec. 29.

Chains	
80.52	<p>Fall 35 lks. west of the 1/4 sec. cor. bet. secs. 29 and 32 heretofore described</p> <p>True course S. 0°-15' E. 80.52</p> <hr/> <p>From the 1/4 sec. cor. bet. secs. 28 and 29 heretofore described thence</p> <p>West on a random latitudinal 1/4 sec. line through center of sec. 29.</p>
80.00	<p>Fall 25$\frac{1}{2}$ lks. north of the 1/4 sec. cor. bet. secs. 29 and 30 heretofore described.</p> <p>Return on a true course N. 89°-49' E.</p>
39.87	<p>Intersect the meridional 1/4 sec. line S. 0°-15' E. 40.08 chains from the 1/4 cor. on N. boundary sec. 29 and N. 0°-15' W. 40.44 chains from the 1/4 cor. on S. boundary sec. 29. Set temp. pt. for center of section.</p>
80.00	<p>The 1/4 cor. on E. boundary sec. 29, the place of beginning.</p> <p style="text-align: right;">April 16, 1926.</p> <hr/> <p>April 17, 1926.</p> <p>From the temp. point set for center 1/4 cor. of sec. 29 thence N. 0°-15' W.</p>
20.04	<p>Set temp. point for 1/16 cor. and what will be cor. #4 of E. S. 647.</p>
40.08	<p>The 1/4 cor. on N. boundary sec. 29 heretofore described.</p> <hr/> <p>From the temp. point for the 1/16 cor. on W. boundary NW 1/4 sec. 29. Thence east on a random 1/16 line through center of NW 1/4 sec. 29.</p>
39.90	<p>Fall 16 lks. south of the temp 1/16 point set on E. boundary NW 1/4 True course N. 89°-46' E. 39.90</p> <hr/> <p>From the temp. point set for 1/16 cor. on W. boundary NE 1/4; thence east on a random latitudinal 1/16 line through NE 1/4 sec. 29.</p>
40.25	<p>Fall 18$\frac{1}{2}$ lks south of the temp. 1/16 cor. set on E. boundary NE 1/4 sec. 29.</p> <p>True course N. 89°-44' E. 40.25</p> <p style="text-align: right;">April 17, 1926.</p>

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EXCHANGE
~~HOMESTEAD ENTRY~~ SURVEY NO. 647

SITGREAVES NATIONAL FOREST

6.

STATE OF ARIZONA

Chains

Boundaries of Exchange Survey #647

April 20, 1926.

Beginning at cor. #1

Identical with the cor. of secs. 29, 30, 31 and 32 heretofore described, I mark a + on top of sec. cor. for cor. #1 of the survey, and alongside to the NE set a sandstone 6x6x20 ins. 12 ins. in the ground marked 1 E.S. 647 on NE face;

Whence a juniper 10" dia. bears N. 62°-05' W. 43 lks. dist.

A pine 12" dia. bears S. 27°-20' E. 78 lks. dist.

Each blazed and scribed 1 + E.S. 647 B.T.

Latitude 34°13'24" N. Longitude 110°02'03" W. from Forest Service base map.

Magnetic declination at 8 a.m. 14°45' E. mean magnetic declination 14°42' E.

Thence N. 0°-07' W.

Along line bet. secs. 29 and 30 S/2

41.42

To Cor. #2

Identical with 1/4 cor. bet. Secs. 29 and 30 previously described.

I mark same stone + on top for cor. No. 2 of this survey and alongside to E. set a sandstone 18x5x14 ins. 10 ins. in ground marked 2 E. S. 647 on E. face.

Thence N. 0°28' W.

Along line bet. secs. 29 and 30 N/2

19.95

To Cor. No. 3 also 1/16 cor. and closing cor. on line bet. Secs. 29

and 30 N/2. Deposit a sandstone 1 1/2 x 4 x 5 ins. marked with a +

14 ins. in ground over which set a sandstone 20x5x12 ins. (no longer stone available) marked a + on top, 1/16 on N. and CC

3 E.S. 647 on E. face. No stone available for mound.

Pine 20 ins. dia. bears S. 42°29' W. 43 lks.

Pine 30 ins. dia. bears S. 4°19' W. 102 lks.

Each marked 1/16 CC 3 E.S. 647 x BT.

Thence N. 89°-46' E.

Along latitudinal 1/16 sec. line through NW 1/4 sec. 29 through

Chains	dense stand of pine timber and pine reproduction.
12.00	Wash 10 lks. wide course north.
14.60	Pole fence bears N. and S., and joins E. and W. wire fence 30 lks. S. of line.
39.90	To cor. #4 and 1/16 sec. cor. on E. boundary NW 1/4 sec. 29, deposit a sandstone 3x4x4" marked with a + 14" in the ground over which set a sandstone 10x14x24" marked a + on top, 1/16 on W. face and 4 E. S. 647 on S. face. Raise mound of stone 3' base 2' high S. of cor. whence a yellow pine 20" dia. bears N. 79-40 E. 26 lks. dist. A black jack pine 11" dia. bears S. 09-45 E. 64 lks. dist. each blazed and scribed 4 E.S. + 647 B.T. The 1/4 cor. on N. boundary sec. 29 heretofore described bears N. 0-15 W. 20.04 ch. The temp. point set for center 1/4 sec. cor. bears S. 0-15 E. 20.04 ch.
	Thence N. 89-44 E.
	Along latitudinal 1/16 sec. line through NE 1/4 sec. 29 and along N. side of wire fence 30 lks. dist. through dense pine timber.
32.20	Irrigation ditch 5 lks. wide 6" deep course north.
32.47	To cor. #5 Deposit a sandstone 2x4x5" marked with a + 18" in the ground over which set a sandstone 8x12x24 ins. marked with a + on top and 5 E.S. 647 on SW face. Raise mound of stone 2' base 1 1/2' high SW of cor. whence a pine 11" dia. bears west 9 lks. dist. a pine 14" dia. bears N. 0-05 W. 49 lks dist. each blazed and scribed 5 + E.S. 647 BT. The temp. 1/16 cor. on E. boundary NE 1/4 sec. 29 bears N. 89-44 E. 7.78 chains dist.
	Thence S. 1°33' E. Along west side of Showlow - Lakeside Road
3.83	To Cor. No. 6 at Cor. of fence, fences bear S. and W. Deposit a sandstone 2x4x4 ins. marked with a + 18 ins. in ground

8.

Chains

over which set a sandstone 24x6x10 ins. marked + on top and 6
E. S. 647 on W. face, raise mound of stone 2 ft. base $1\frac{1}{2}$ ft. high
W. of Cor.

No witnesses available - Pits impracticable.

April 20, 1926.

April 21, 1926.

Thence N. $88^{\circ}35'$ W.

Along outside of fence.

1.75 To Cor. No. 7 at Cor. fence, fences bear southerly and easterly.

Deposit a sandstone 2x4x6 ins. marked with a + 16 ins. in
ground over which set a sandstone 24x10x11 ins. marked + on top
for point and 7 E S 647 on W. face, raise mound stone 2 ft. base
 $1\frac{1}{2}$ ft. high W. of Cor. whence

Pine 10 ins. dia. bears N. $1^{\circ}15'$ W. 79 lks.

Pine 28 ins. dia. bears S. $83^{\circ}45'$ W. 133 lks.

Each marked 7 E S 647 + BT.

Thence S. $18^{\circ}33'$ W.

Along foot of E. slope.

6.07 To Cor. No. 8.

Deposit a sandstone 3x5x5 ins. marked with a + 14 ins. in ground
over which set a sandstone 22x8x14 ins. (no longer stone available)
marked + on top for point and 8 E S 647 on W. face, raise mound
of stone 2 ft. base $1\frac{1}{2}$ ft. high W. of cor. whence

Pine 10 ins. dia. bears N. $10^{\circ}05'$ E. 48 lks.

Pine 8 ins. dia. bears S. $81^{\circ}05'$ W. 15 lks.

Each marked 8 E S 647 x BT

Thence S. $41^{\circ}09'$ W.

Along foot of E. slope.

5.48 To Cor. No. 9.

Deposit a malpais stone 2x4x5 ins. marked with a + 16 ins. in
ground over which set sandstone 26x10x12 ins. marked + on top
and 9 E S 647 on W. face, raise mound stone 2 ft. base $1\frac{1}{2}$ ft. high

Chains

W. of cor. whence

Pine 24 ins. dia. bears S. 76°43' W. 148 lks.

Pine 24 ins. dia. bears N. 28°36' W. 83 lks.

Each marked 9 E S 647 x BT.

Thence S. 23°44' E.

Along outside of fence

8.28 To Cor. No. 10

Deposit a sandstone 2x4x6 ins. marked with a + 14 ins. in ground over which set a sandstone 24x12x14 ins. marked + on top and 10 E S 647 on W. face; raise a mound of stone 2 feet base 1½ ft. high W. of cor. whence

Pine 8 ins. dia. bears S. 63°30' E. 67 lks.

Pine 8 ins. dia. bears S. 28°45' W. 45 lks.

Each marked 10 E. S. 647 + BT

Thence S. 22°00' E.

Across foot of rocky E. slope.

5.86 To Cor. No. 11.

Deposit a granite stone 3x5x6 ins. marked with a + 14 ins. in ground over which set a sandstone 24x8x12 ins. marked + on top for point and 11 E S 647 on W. face; raise mound of stone 2 ft. base 1½ ft. high west of cor. whence

Pine 30 ins. dia. bears N. 66°30' W. 106 lks.

Pine 11 ins. dia. bears N. 64°08' E. 77 lks.

Each marked 11 E S 647 + BT

Thence S. 25°58' W.

Along foot of rocky E. slope.

6.42 To Cor. No. 12.

Deposit a granite stone 2x3x3 ins. marked with a + 14 ins. in ground over which set a sandstone 24x8x10 ins. marked + on top and 12 E S 647 on W. face; raise a mound of stone 2 ft. base 1½ ft. high W. of Cor. whence;

Pine 24 ins. dia. bears S. 42°55' W. 106 lks.

10.

STATE OF ARIZONA

Chains

Pine 20 ins. dia. bears N. 50°37' W. 90 lks.
Each marked 12 E. S. 647 + BT.

Thence S. 19°24' E.

Along foot of E. slope

10.73

To Cor. No. 13.

Deposit a granite stone 2x5x6 ins. marked with a + 14 ins. in ground over which set a sandstone 26x10x12 ins. marked + on top for point and 13 E S 647 on W. face; raise mound of stone 2 feet base 1½ ft. high W. of cor. whence;

Pine 9 ins. dia. bears N. 51°00' W. 107 lks.

Pine 9 ins. dia. bears S. 89°15' W. 85 lks.

Each marked 13 E S 647 + BT.

Thence S. 20°37' W

19.22

To cor. No. 14 and closing cor. on line bet. secs. 29 and 32.

Deposit a sandstone 2x2x4 ins. marked with a + 20 ins. in the ground over which set a sandstone 30x14x7 ins. marked + on top for point, CC on NE, and 14 E S 647 on NW faces; raise mound of stone 2 ft. base 1½ ft. high on closing line N. 20°37' E of Cor. whence

Pine 24 ins. dia. bears N. 85°00' E. 53 lks.

Pine 20 ins. dia. bears N. 13°30' W. 72 lks.

Each marked CC 14 E S 647 + BT

Cor. Secs. 28, 29, 32 and 33 previously described bears N. 89°46' E 15.51 Chs. 1/4 cor. bet. Secs. 29 and 32 previously described bears S. 89°46' W. 24.50 chs.

Thence S. 89°46' W.

Along line bet. secs. 29 and 32

24.50

To cor. #15,

Identical with the 1/4 cor. bet. secs. 29 and 32 heretofore described.

I mark a + on top of the 1/4 cor. for cor. No. 15 of this survey and alongside to the NW set a sandstone 5x10x20 ins.,

EXCHANGE
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SITGREAVES NATIONAL FOREST

STATE OF ARIZONA

11.

Chains

12" in the ground marked 15 E S 647 on the N. face. No larger stone available.

A pine 6" dia. bears N. 44-15^o E. 26 lks dist. blazed and scribed 1/4 S 29-15 + E S 647 BT.

A pinon 11" dia. bears S. 44-30^o W. 41 lks. dist. blazed and scribed 1/4 S 32-15 + E S 647 BT.

Thence S. 88-30^o W

Along line bet. secs. 29 and 32

W 1/2 over rolling land through dense timber.

40.11 To cor. #1, the place of beginning.

Area

Total Area 417.62 Acres.

Survey completed April 21, 1926.

Thomas F. Myers

Chief Surveyor.

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HOMESTEAD ENTRY SURVEY NO. 15

NATIONAL FOREST

STATE OF

Chains



SITGREAVES NATIONAL FOREST

STATE OF ARIZONA

12.

Chains

Computation Direct Solar Observation.

Lat. 34°14'15" N. Long. 110°01' W.

1st
Obsn.

Pas. tel.	Sun	Watch time	Horizontal Angle	Vertical Angle
Direct	+	9h 27m 37s	68°06'	42°50'
Reversed	+°	9h 29m 18s	<u>67°01'</u>	<u>43°39'</u>
Mean			67°33'30"	43°14'30"
Refr.				- 1'02"
Parallax				+ 06"
Decl. 8°56'24" N.				43°13'34"

$$\text{Cos. A.} = \frac{\text{Sin } 8^{\circ}56'24''}{\text{Cos. } 34^{\circ}14'15'' \text{ Cos. } 43^{\circ}13'34''} - \tan.34^{\circ}14'15'' \tan 43^{\circ}13'34''$$

$$\text{Sin } 8^{\circ}56'24'' = 9.1914512 +$$

$$\text{Cos } 34^{\circ}14'15'' = 9.9173545$$

$$\text{Cos } 43^{\circ}13'34'' = \underline{9.8625229}$$

$$9.7798774$$

$$\underline{9.7798774}$$

$$9.4115738 = .25797 +$$

$$\text{Tan. } 34^{\circ}14'15'' = 9.8328642$$

$$\text{Tan. } 43^{\circ}13'34'' = \underline{9.9730911}$$

$$9.8059553$$

$$.63967 +$$

$$\underline{.25797}$$

$$.38170$$

$$\text{Cos. A} = \text{S } 67^{\circ}33'40'' \text{ E}$$

$$\text{Mean Horizontal Angle } \underline{67^{\circ}33'30''}$$

$$\text{Diff. } \dots \dots \dots 10''$$

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HOMESTEAD ENTRY SURVEY NO.

U.S. DEPARTMENT OF AGRICULTURE

NATIONAL FOREST

STATE OF

Chains		
100.00	100.00	
100.00	100.00	
100.00	100.00	
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SITGREAVES NATIONAL FOREST

STATE OF ARIZONA

13.

Chains

Computation Direct Solar Observation.

2nd.
obsn.

Pas. tel.	Sun	Watch time	Horizontal Angle	Vertical Angle
Direct	+	9h 30m 56s	67°22	43°29
Reversed	+	9h 32m 20s	<u>66°21</u>	<u>44°14</u>
Mean			66°51'30"	43°51'30"
Parallax				+ .06"
Refr.				<u>- 1'02"</u>
				43°50'34"

Decl. 8°56'24" N

$$\text{Cos } A = \frac{\text{Sin } 8^{\circ}56'24''}{\text{Cos } 34^{\circ}14'15'' \text{ Cos } 43^{\circ}50'34''} - \tan. 34^{\circ}14'15'' \tan. 43^{\circ}50'34''$$

$$\text{Sin } 8^{\circ}56'24'' = 9.1914512$$

$$\text{Cos } 34^{\circ}14'15'' = 9.9173545$$

$$\text{Cos } 43^{\circ}50'34'' = \underline{9.8580818}$$

$$9.7754363 \qquad \underline{9.7754363}$$

$$9.4160149 =$$

$$.26063$$

$$\text{Tan } 34^{\circ}14'15'' = 9.8328642$$

$$\text{Tan } 43^{\circ}50'34'' = \underline{9.9824520}$$

$$9.8153162 = .65361$$

$$\underline{.26063}$$

$$.39298$$

$$\text{Cos. } A = \text{S } 66^{\circ}51'34'' \text{ E}$$

Mean Horizontal Angle 66°51'30"

Diff. 04"

DIRECTIONS.—1. Carry out calculations to two decimals only.

2. In balancing Latitudes and Departures do not obliterate or change the original figures.

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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 ENTRY~~ SURVEY NO. 647, 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° 07' W.	41.42	41 42 ³			08 ⁶	36	14 91			
2 - 3	N. 0° 28' W	19.95	19.95			16 ³	15	2 99			
3 - 4	N. 89° 46' E.	39.90	16		39 90 ²		39 92	6 79			
4 - 5	N. 89° 44' E.	32.47	15		32 47 ⁴		112 33	16 85			
5 - 6	S. 01 35' E.	3.83		3 83	10		144 92			555 04	
6 - 7	N. 88° 35' W.	1.75	04			1 75	143 27	5 73			
7 - 8	S. 18° 33' W.	6.07		5 75		1 93 ²	139 60			802 70	
8 - 9	S. 41° 09' W.	5.48		4 13		3 61	134 07			553 70	
9 - 10	S. 23° 44' E.	8.28		7 58	3 33 ⁴		133 80			1014 20	
10 - 11	S. 22° 00' E.	5.86		5 43	2 20		139 34			756 62	
11 - 12	S. 25° 58' W.	6.42		5 77		2 81 ⁸⁰	138 74			800 53	
12 - 13	S. 19° 24' E.	10.73		10 12	3 56		139 51			1411 84	
13 - 14	S. 20° 37' W.	19.22		17 99		6 77 ⁶	136 32			2452 40	
14 - 15	S. 89° 46' W.	24.50		10		24 50 ⁴⁹	105 07			10 51	
15 - 1	S. 88° 30' W.	40.11		1 05 ⁷		40 10 ⁰⁸	40 50			42 12	
		265.99	61 72 ⁴	61 75 ⁴	81 56 ⁶⁷	81 71 ⁶²		47 27		8399 66	
				61 72		81 56				47 27	
				03		15				20 18352 39	(417.62 acres
											O.K.
	Closing error	1/1739									E

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NO	DATE	DESCRIPTION	AMOUNT	CHECK NO	BANK	INTEREST	TOTAL	DATE
1	12 31	1 - 1
2	01 01	2 - 2
3	02 01	...	...	...	...	...	...	3 - 3
4	03 01	...	...	...	...	...	...	4 - 4
5	04 01	...	...	...	...	...	...	5 - 5
6	05 01	...	...	...	...	...	...	6 - 6
7	06 01	...	...	...	...	...	...	7 - 7
8	07 01	...	...	...	...	...	...	8 - 8
9	08 01	...	...	...	...	...	...	9 - 9
10	09 01	...	...	...	...	...	...	10 - 10
11	10 01	...	...	...	...	...	...	11 - 11
12	11 01	...	...	...	...	...	...	12 - 12
13	12 01	...	...	...	...	...	...	13 - 13
14	01 01	...	...	...	...	...	...	14 - 14
15	02 01	...	...	...	...	...	...	15 - 15
16	03 01	...	...	...	...	...	...	16 - 16
17	04 01	...	...	...	...	...	...	17 - 17
18	05 01	...	...	...	...	...	...	18 - 18
19	06 01	...	...	...	...	...	...	19 - 19
20	07 01	20 - 20
21	08 01	21 - 21
22	09 01	22 - 22
23	10 01	23 - 23
24	11 01	24 - 24
25	12 01	25 - 25

...

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EXCHANGE

TABLING AND CALCULATIONS OF ~~HOME~~STEAD-ENTRY SURVEY NO. 647, STATE OF ARIZONA

8-2349

CORNERS.	BEARING.	DISTANCE.	LATITUDES.		DEPARTURES.		DOUBLE M. D.	N. AREAS.	S. AREAS.
			NORTH.	SOUTH.	EAST.	WEST.			
			CLOSURE OF SE 1/4 SEC. 29		40	13			
	N. 89° 49' E.	40.13	13			11			
	S. 0° 09' E.	40.34		40 34					
	S. 89° 46' W.	40.01		16		40 01			
	N. 0° 15' W.	40.44	40 44			18			
			40 57	40 50	40 24	40 19			
			CLOSURE OF SW 1/4						
	S. 88° 30' W.	40.11		1 05		40 10			
	N. 0° 07' W.	41.42	41 42			08			
	N. 89° 49' E.	39.87	13		39 87				
	S. 0° 15' E	40.44		40 44	18				
			41 55	41 49	40 05	40 18			
			CLOSURE OF NW 1/4						
	N. 0° 28' W.	39.90	39 90			32			
	N. 89° 40' E.	39.95	23		39 95				
	S. 0° 15' E.	40.08		40 08	17				
	S. 89° 49' W.	39.87		13		39 87			
			40 13	40 21	40 12	40 19			

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1. 00	001	20.00	00 01	00 02	00 03
2. 00	002	00.00	00 04	00 05	00 06
3. 00	003	00.00	00 07	00 08	00 09
4. 00	004	00.00	00 10	00 11	00 12
5. 00	005	00.00	00 13	00 14	00 15
6. 00	006	00.00	00 16	00 17	00 18
7. 00	007	00.00	00 19	00 20	00 21
8. 00	008	00.00	00 22	00 23	00 24
9. 00	009	00.00	00 25	00 26	00 27
10. 00	010	00.00	00 28	00 29	00 30



UNITED STATES OF AMERICA
 DEPARTMENT OF THE INTERIOR
 BUREAU OF LAND MANAGEMENT
 WASHINGTON, D. C. 20250

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EXCHANGE

TABLING AND CALCULATIONS OF ~~HOMESTEAD~~ ENTRY SURVEY NO. 647, STATE OF ARIZONA

8-2340

CORNERS.	BEARING.	DISTANCE.	LATITUDES.		DEPARTURES.		DOUBLE M. D.	N. AREAS.	S. AREAS.
			NORTH.	SOUTH.	EAST.	WEST.			
			CLOSURE OF NE 1/4						
	N. 89° 36' E.	40.21	28		40 21				
	S. 0° 09' E.	40.34		40 34	11				
	S. 89° 49' W.	40.13		13		40 13			
	N. 0° 15' W.	40.08	40 08						
			40 36	40 47	40 32	40 30			
			CLOSURE OF SEC. 29						
	N. 0° 07' W.	41.42	41 42						
	N. 0° 28' W.	39.90	39.90						
	N. 89° 40' E.	39.95	23		39 95				
	N. 89° 36' E.	40.21	28		40 21				
	S. 0° 09' E.	80.68		80 68	21				
	S. 89° 46' W.	40.01		16		40 01			
	S. 88° 30' W.	40.11		1 05		40 10			
			81 83	81 89	80 37	80 51			

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APPROVAL

PUBLIC SURVEY OFFICE

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

Phoenix, Arizona, November 18 , 1926

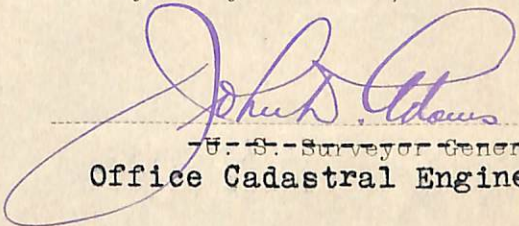
The foregoing field notes of ~~Homestead Entry Survey No.~~

EXCHANGE SURVEY NO. 647

executed by **Thomas F. Myers, Chief Surveyor,**

[Forest Service Title]

under his special instructions, dated **April 13** , 19**26** 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.

5-2349

John D. Adams
U. S. Surveyor General.
Office Cadastral Engineer

REVISED

Office of the United States Attorney General

Washington, D.C.

The following table shows the number of cases

disposed of during the year

1907

1907

5

Handwritten mark resembling a stylized 'E' or '3'.