

EMS

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E.S. 653 Gila meadows

OATH OF ASSISTANTS

We hereby certify that we assisted **Thomas F. Myers**
Chief Surveyor, Forest Service in surveying all those

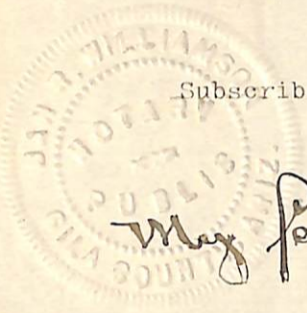
parts or portions of Homestead ~~Survey~~ **Exchange** Survey No. **653**, in the State of **Arizona** which are represented in the following field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for

H. L. Taylor

C. V. Christman

Subscribed and sworn to before me this *4th* day of *February*, 19*28*.

May Penn expires Jan 4 - 1929. *Lawrence B. Williamson*
Notary Public



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~~ **Office of Public Lands Surveys**, dated ~~Oct. 13~~ *1927*, and the laws of the United States, I have well, faithfully, and truly, in my own proper person, surveyed a tract of land

~~XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX~~, for Exchange
Exchange, under the Act of **March 20**, 1922 and **January 18**, 1927
the same to be known as ~~XXXXXXXXXXXXXXXXXXXX~~ Survey No. **653**
situated within the **Crook** National Forest, in
surveyed Section **1**, Township **1 S.**, Range **15 E.**, and
Un-surveyed Section **4**, Township **1 S.**, Range **16 E.**,
Un- " " **5** " **1 S.** " **16 E.**
Un- " " **6** " **1 S.** " **16 E.**

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
[Forest Service Title.]

Subscribed and sworn to before me this *8th* day of *February*, 19*28*

Edwin S French
Notary Public

My Commission Expires June 2, 1930



8-2349



EXCHANGE
~~HOUSTEAD/EMERY~~ SURVEY NO. 653

75

CROOK NATIONAL FOREST

STATE OF ARIZONA

1.

Chains

The tract of land embraced in this survey is largely occupied and improved by the Gila Meat Company of Globe, Arizona, which it is proposed to grant to said Company in exchange for timber lands desired by the Forest Service, and designated as Exchange Survey No. 653.

The land embraced in this survey is situated in Sec. 1 T. 1 S. R. 15 E., surveyed and accepted and in what will probably be when surveyed Secs. 4, 5 and 6 T. 1 S. R. 16 E. Gila and Salt River Base and Meridian, Crook National Forest, Arizona.

The survey was commenced November 3, 1927 and executed with a Buff and Buff Transit No. 10019 equipped with Smith Solar attachment.

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.

Surveyed under the Acts of March 20, 1922 and January 18, 1927.

November 3, 1927.

At my station which is approximately 11.00 chs. east of the Standard Cor. Secs. 34 and 35 T. 1 N. R. 15 $\frac{1}{2}$ E. in lat. 33°22'39" N., Long. 110°45'18" W. from Globe Quadrangle U.S.G.S.

I observe Polaris as follows:

Reference mark east of star - a tree on edge of rock bluff about 5 miles dist.

Watch time	telescope	Angle from star to mark
------------	-----------	-------------------------

5 h. 47 m. 10 s. p.m.	direct	2°20'
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<u>5 h. 49 m. 48 s. p.m.</u>	reversed	<u>2°18'</u>
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Mean	5 h. 48 m. 29 s.	2°19'
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23 m. 01 s. corr. to l.m.t.

5 h. 25 m. 28 s.

Set

My watch with Western Union time today and made to read correct 105th meridian standard time - which by difference in longitude at this point is 23 m. 01 s. fast on l.m.t.

76

CROOK NATIONAL FOREST

STATE OF ARIZONA

2.

Chains	Greenwich m.t. U.C. Polaris Nov. 3, 1927	10 h. 47.7 m. p.m.
	Corr. for long.	<u>1.2 m.</u>
	l.m.t. U.C. Polaris Nov. 3, 1927	10 h. 46.5 m. p.m.
	l.m.t. obsn. Polaris Nov. 3, 1927	<u>5 h. 28.5 m. p.m.</u>
	Hour angle	5 h. 18.0 m.
	Azimuth of Polaris	1° 16.8' E.
	Bearing of Reference Mark	N. 3° 35.8' E.
	Watch time telescope	Angle from star to mark
	5 h. 53 m. 50 s. p.m. Direct	2° 20'
	<u>5 h. 56 m. 30 s. p.m. Reversed</u>	<u>2° 18'</u>
Mean	5 h. 55 m. 10 s. p.m.	2° 19'
	<u>23 m. 01 s. corr. to l.m.t.</u>	
	5 h. 32 m. 09 s. p.m. l.m.t. obsn.	
	l. m. t. U.C. Polaris Nov. 3, 1927	10 h. 46.5 m. p.m.
	l.m.t. obsn. Polaris Nov. 3, 1927	<u>5 h. 32.2 m. p.m.</u>
	Hour Angle	5 h. 14.3 m.
	Azimuth of Polaris	1° 16.6' E.
	Bearing of Reference Mark	N. 3° 35.6' E.
	The bearing of reference mark as determined from the mean of the two observations is N. 3° 35.'7 E. I accept bearing of reference mark as N. 3° 36' E. and from the corresponding meridian all the courses of this survey were deflected by sustained angulation.	
	November 3, 1927.	
	Retracements.	
	November 5, 1927.	
	Beginning at the closing cor. of T. 1 S. Rs. 15 and 16 E. an iron post 3/4 ins. dia. 12 ins. above grd. with brass cap marked and witnessed as described by the office of Public Surveys	
	Thence south	
	Retracing along line between Secs. 1 and 6 T. 1 S. Rs. 15 and 16 E.	
	N/2	
20.94	The 1/4 Cor. between Secs. 1 and 6 - an iron post 1 in. in dia. 10 ins. above ground with brass cap marked and witnessed as described by Office of Public Surveys.	
	True line is South 20.94 chs.	

CROOK NATIONAL FOREST

STATE OF ARIZONA

Chains From the Std. Cor. Secs. 34 and 35 T. 1 N. R. 15 $\frac{1}{2}$ E. a quartz stone
8x6x3 ins. above ground marked and witnessed as described by the
Office of Public Surveys.
Thence West
Retracing along South boundary of Sec. 34.

5.15 Fall .2 lk. south of closing cor. between Secs. 1 and 6, T. 1 S.,
Rs. 15 and 16 E. previously described.

39.87 Fall .6 lk. South of Std. 1/4 Cor. on South Bdy. of Sec. 34 T. 1 N.
R. 15 $\frac{1}{2}$ E. - a quartz stone 12x8x8 ins. above ground marked and
witnessed as described by the Office of Public Surveys.
True line is West 39.87 chs.
November 5, 1927.

November 6, 1927.

Return to std. cor. Secs. 34 and 35 T. 1 N. R. 15 $\frac{1}{2}$ E. previously
described.
Thence East
Retracing along south boundary of Sec. 35, W/2

39.74 Fall 4 lks. South of Std. 1/4 Cor. on South bdy. of Sec. 35, a
quartz stone 10x8x5 ins. above ground marked and witnessed as des-
cribed by the Office of Public Surveys.
True line is N. 89°56' E. 39.74 chs.

Thence East
Retracing along South bdy. of Sec. 35 E/2

40.19 Fall 4 $\frac{1}{2}$ lks. South of witness Cor. to std. Cor. Secs. 35 and 36
a sandstone 10x8x4 ins. above ground marked and witnessed as
described by the Office of Public Surveys.
W. C. is 25 lks. East of true point for std. cor. secs. 35 and 36
True line is N. 89°56' E. 39.94 chs.

From point for Std. Cor. Secs. 35 and 36
Thence East
Retracing along south bdy. of Sec. 36 W/2

.25 W. C. to Std. Cor. Secs. 35 and 36 previously described.

CROOK NATIONAL FOREST

STATE OF ARIZONA

4.

Chains	
39.98	Fall 5 1/2 lks. South of Std. 1/4 Cor. on South bdy. of Sec. 36 a schist stone 8x6x4 ins. above ground, marked and witnessed as described by Office of Public Surveys. True line is N. 89°55' E. 39.98 chs.
	Thence East
	Retracing along south bdy. of Sec. 36 E/2
39.89	Fall 5 1/2 lks. South of Std. Twp. Cor. T. 1 N. Rs. 15 1/2 and 16 E. A porphyry stone 8x6x4 ins. above ground marked and witnessed as described by the Office of Public Surveys. True line is N. 89°55' E. 39.89 chs.
	Thence East
	Retracing South Bdy. Sec. 31 T. 1 N. R. 16 E.
28.17	Fall 3 lks. South of Std. Twp. closing cor. on West bdy. of White Mountain Indian Reservation, a quartz stone 6x6x4 ins. above ground, marked and witnessed as described by the Office of Public Surveys. True line is N. 89°56' E. 28.17 chs.
	Thence S. 8°21' W.
	Retracing along West. bdy. of White Mountain Indian Reservation
37.45	Fall 9 lks. N. 81°39' W. of 65 mile Cor. A granite rock 15x12x11 ins. marked as described by Office of Public Surveys, loosely set in small mound of stone. I reset same stone 12 ins. in ground. True line is S. 8°13' W. 37.45 chs.
	Thence S. 8°21' W.
	Retracing West. bdy. White Mountain Indian Reservation between 65 and 66 mile cors.
41.50	Make careful search for witness cor. to 65 1/2 mile cor. but find no evidence of same.
80.09	The 66 mile cor. on west bdy. of White Mountain Indian Reservation a granite rock 16x9x9 ins. above ground in small mound of stone. Thence N. 8°21' E. On true line along West bdy. White Mountain Indian Reservation.

EXCHANGE
~~HOME/STEAD/ENTRY~~ SURVEY NO. 653

CROOK NATIONAL FOREST

STATE OF ARIZONA

Chains,
38.543 Proportionate point for W.C. 65 1/2 mile cor. determined by the follow-
ing proportion 80.00 : 38.50 :: 80.09 : x = 38.543.

At this point I set a tufa stone 30x14x6 ins. 20 ins. in ground
marked WC WMIR WB 65 1/2 on East face, and alongside drive an iron
bar 36 ins. long 24 ins. in the ground.

80.09 The 65 mile cor. on W. bdy. White Mountain Indian Reservation pre-
viously described.

November 6, 1927

Retracement of Easement of Arizona
Eastern Railway.

November 7, 1927.

Beginning in the center of the railway at the intersection with the
West boundary of the White Mountain Indian Reservation. Whence 65
mile Cor. on W. bdy. of White Mountain Indian Reservation previous-
ly described bears N. 8°21' E. 24.00 chs.

Thence N. 47°13' W. (Record N. 46°38' W.) along center line of
railway.

.51 TO P.C. of 5° curve having a radius of 1146.28 feet and a central
angle of 39°56'. (determined by producing this and succeeding tangent
to point of intersection). The tangent dist. from the P.I. is
416.45 feet. Set temp. stake for P. C.
Thence N. 67°11' W. (Record N. 66°29' W. 618.34 ft.)
On computed long cord of a 5° curve to left having a radius of
1146.28 feet and central angle 39°56' (Record central angle is
39°42')

11.86 To P.T. of 5° curve having a radius of 1146.28 ft. The tangent
dist. is N. 87°09' W. 416.45 ft. from P. I. (Record is N. 86°20' W.
413.8) Set temp. stake for P.T.
Thence N. 87°09' W. (Record N. 86°20' W.)
Along center line of railway

6.91 To P.C. of 5° curve having a radius of 1146.28 ft. and a central
angle of 20°41' (determined by producing this and the succeeding
tangent to point of intersection). The tangent dist. from P. I is
209.18 ft. Set temp. stake for P. C.
Thence N. 76°48'30" W. (Record N. 76°05'30" W. 323.77 ft.)

6.

- Chains On computed long cord of a 5° curve to right having a radius of 1146.28 ft. and a central angle of 20°41' (Record central angle is 20°29')
- 6.24 To P.T. of 5° curve having a radius of 1146.28 ft. The tangent dist. is N. 66°28' W. 209.18 ft. from P.I. (Record is N. 65°51' W. 207.11 ft.) set temp. stake for P. T.
Thence N. 66°28' W. (Record N. 65°51' W.)
Along center line of railway
- 23.44 To P.C. of 7° curve having a radius of 819.02 ft. and a central angle of 29°31' (determined by producing this and the succeeding tangent to point of intersection). The tangent dist. from P. I. is 215.75 ft. Set temp. stake for P. C.
Thence N. 51°42'30" W. (Record N. 50°59'37" W. 419.98 ft.)
On computed long cord of 7° curve to right having a radius of 819.02 ft. and a central angle of 29°31' (Record central angle is 29°42'45")
- 6.32 To P.T. of 7° curve having a radius of 819.02 ft. The tangent dist. from P. I. is N. 36°57' W. 215.75 ft. (Record is N. 36°08'15" W. 217.25 ft.)
Set temp. stake for P. T.
Thence N. 36°57' W. (Record is N. 36°08'15" W.)
Along center line of railway.
- 4.65 To P.C. of 7° curve having a radius of 819.02 ft. and a central angle 45°26' (determined by producing this and the succeeding tangent to point of intersection) The tangent dist. from P. I. is 342.88 ft.
Set temp. stake for P. C.
Thence N. 59°40' W. (Record N. 58°53'15" W. 633.45 ft.)
On computed long cord of 7° curve to left having a radius of 819.02 ft. and a central angle of 45°26' (Record central angle is 45°30')
- 9.58 To P.T. of 7° curve having a radius of 819.02 ft. The tangent dist. from P.I. is N. 82°23' W. 342.88 ft. (Record is N. 81°38'15" W. 343.44 ft.) Set temp. stake for P. T.
Thence N. 82°23' W. (Record N. 81°38'15" W.)

8.

Chains

6.42 To P.T. of 8° curve having a radius of 716.78 ft. The tangent dist. from P. I. is N. 48°52' W. 221.76 ft. (Record is N. 48°11' $\frac{3}{4}$ W. 221.88 ft.) Set temp. stake for P. T.
Thence N. 48°52' W. (Record N. 48°11' $\frac{3}{4}$ W.)

Along center line of railway

4.83 To P. C. of 10° curve having a radius of 573.69 ft. and a central angle of 70°42' (determined by producing this and the succeeding tangent to point of intersection). The tangent dist. from P. I. is 406.95 ft. Set temp. stake for P. C.

Thence N. 84°15' W. (Record N. 83°32' $\frac{3}{4}$ W. 663.84 ft.)

On computed long cord of 10° curve to left having a radius of 573.69 ft. and central angle of 70°42' (Record central angle is 70°42')

10.06 To P.T. of 10° curve having a radius of 573.69 ft. The tangent dist. is S. 60°26' W. 406.95 ft. from P.I. (Record is S. 61°06' $\frac{1}{4}$ W. 406.95 ft.) Set temp. stake for P. T.
Thence S. 60°26' W. (Record S. 61°06' $\frac{1}{4}$ W.)

Along center line of railway

5.94 To P. C. of 8° curve having a radius of 716.78 ft. and a central angle of 36°26' (determined by producing this and the succeeding tangent to point of intersection.) The tangent dist. from P.I. is 235.90 ft. Set temp. stake for P. C.

Thence S. 78°39' W. (Record S. 79°20' W. 448.45 ft.)

On computed long cord of 8° curve to right having a radius of 716.78 ft. and a central angle of 36°26'. (Record central angle is 36°27' $\frac{1}{2}$)

6.79 To P.T. of 8° curve having a radius of 716.78 ft. The tangent dist. is N. 83°08' W. 235.90 ft. from P.I. (Record is N. 82°26' $\frac{1}{4}$ W. 236.07 ft.) Set temp. stake for P. T.

Thence N. 83°08' W. (Record N. 82°26' $\frac{1}{4}$ W.)

Along center line of railway

11.99 To P. C. of 4° curve having a radius of 1432.7 ft. and a central angle of 10°15' (determined by producing this and the succeeding tangent to point of intersection.) The tangent dist. from P.I. is 128.5 ft. Set temp. stake for P. C.

CROOK NATIONAL FOREST

STATE OF ARIZONA

Chains

Along center line of railway

12.34 To P.C. of 8° curve having a radius of 716.78 ft. and a central angle of 44°46' (determined by producing this and the succeeding tangent to point of intersection) The tangent dist. from P.I. is 295.19 ft. Set temp. stake for P.C. Thence N. 60°00' W. (Record N. 59°19' W. 544.46 ft.)

On computed long cord of 8° curve to right having a radius of 716.78 ft. and a central angle of 44°46' (Record of central angle is 44°38½')

8.27 To P.T. of 8° curve having a radius of 716.78 ft. The tangent dist. from P.I. is N. 37°37' W. 295.19 ft. (Record is N. 36°59½' W. 294.28 ft.) Set temp. stake for P.T. Thence N. 37°37' W. (Record N. 36°59½' W.)

Along center line of railway

4.54 To P.C. of 8° curve having a radius of 716.78 ft. and a central angle of 45°38' (determined by producing this and the succeeding tangent to point of intersection.) The tangent dist. from the P. I. is 301.55 ft. Set temp. stake for P.C. Thence N. 60°26' W. (Record N. 59°47'45" W. 555.53 ft.)

On computed long cord of 8° curve to left, having a radius of 716.78 ft. and a central angle of 45°38' (Record of central angle is 45°36')

8.42 To P.T. of 8° curve, having a radius of 716.78 ft. The tangent dist. from P. I. is N. 83°15' W. 301.55 ft. (Record is N. 82°35½' W. 301.3 ft.) Set temp. stake for P.T. Thence N. 83°15' W. (Record N. 82°35½' W.)

Along center line of railway

11.18 To P.C. of 8° curve having a radius of 716.78 ft. and a central angle of 34°23' (determined by producing this and succeeding tangent to point of intersection) The tangent dist. from P. I. is 221.76 ft. Set temp. stake for P.C. Thence N. 66°03'30" W. (Record N. 65°23½' W. 423.92 ft.)

On computed long cord of 8° curve to right, having a radius of 716.78 ft. and a central angle of 34°23' (Record central angle is 34°24')

8.

Chains

6.42 To P.T. of 8° curve having a radius of **716.78 ft.** The tangent dist. from P. I. is $N. 48^\circ 52' W. 221.76$ ft. (Record is $N. 48^\circ 11' \frac{1}{2} W. 221.88$ ft.) Set temp. stake for P. T.
Thence $N. 48^\circ 52' W.$ (Record $N. 48^\circ 11' \frac{1}{2} W.$)

Along center line of railway

4.83 To P. C. of 10° curve having a radius of **573.69 ft.** and a central angle of $70^\circ 42'$ (determined by producing this and the succeeding tangent to point of intersection). The tangent dist. from P. I. is **406.95 ft.** Set temp. stake for P. C.

Thence $N. 84^\circ 13' W.$ (Record $N. 83^\circ 32' \frac{1}{2} W. 663.84$ ft.)

On computed long cord of 10° curve to left having a radius of **573.69 ft.** and central angle of $70^\circ 42'$ (Record central angle is $70^\circ 42'$)

10.06 To P.T. of 10° curve having a radius of **573.69 ft.** The tangent dist. is $S. 60^\circ 26' W. 406.95$ ft. from P.I. (Record is $S. 61^\circ 06' \frac{1}{2} W. 406.95$ ft.) Set temp. stake for P. T.

Thence $S. 60^\circ 26' W.$ (Record $S. 61^\circ 06' \frac{1}{2} W.$)

Along center line of railway

5.94 To P. C. of 8° curve having a radius of **716.78 ft.** and a central angle of $36^\circ 26'$ (determined by producing this and the succeeding tangent to point of intersection.) The tangent dist. from P.I. is **235.90 ft.** Set temp. stake for P. C.

Thence $S. 78^\circ 39' W.$ (Record $S. 79^\circ 20' W. 448.45$ ft.)

On computed long cord of 8° curve to right having a radius of **716.78 ft.** and a central angle of $36^\circ 26'$. (Record central angle is $36^\circ 27' \frac{1}{2}$)

6.79 To P.T. of 8° curve having a radius of **716.78 ft.** The tangent dist. is $N. 83^\circ 08' W. 235.90$ ft. from P.I. (Record is $N. 82^\circ 26' \frac{1}{2} W. 236.07$ ft.) Set temp. stake for P. T.

Thence $N. 83^\circ 08' W.$ (Record $N. 82^\circ 26' \frac{1}{2} W.$)

Along center line of railway

11.99 To P. C. of 4° curve having a radius of **1432.7 ft.** and a central angle of $10^\circ 15'$ (determined by producing this and the succeeding tangent to point of intersection.) The tangent dist. from P.I. is **128.5 ft.** Set temp. stake for P. C.

EXCHANGE
~~HOMESTEAD/ENTRY~~ SURVEY NO. 653

CROOK NATIONAL FOREST

STATE OF ARIZONA

Chains . Thence N. 88°15'30" W. (Record N. 87°34' W. 256.17 ft.)
 On computed long cord of 4° curve to left having a radius of
 1432.7 ft. and a central angle of 10°15' (Record central angle
 is 10°15 $\frac{1}{2}$ ')
 31.88 To P.T. of 4° curve having a radius 1432.7 ft. The tangent dist.
 is S. 86°37' W. 128.5 ft. from P. I. (Record is S. 87°18 $\frac{1}{4}$ ' W.
 128.6 ft.) Set temp. stake for P. T.
 Thence S. 86°37' W. (Record S. 87°18 $\frac{1}{4}$ ' W.)
 Along center line of railway
 27.69 To P.C. of 3°30' curve having a radius of 1637.3 ft. and a central
 angle of 36°43' (determined by producing this and the succeeding
 tangent to point of intersection).
 The tangent dist. from P. I. is 543.34 ft. Set temp. stake for P.C.
 Thence N. 75°01'30" W. (Record N. 74°19'45" 1031.8 ft.)
 On computed long cord of 3°30' curve to right having a radius of
 1637.3 ft. and a central angle of 36°43' (Record central angle is
 36°44')
 15.63 To P.T. of 3°30' curve having a radius of 1637.3 ft. The tangent
 dist. from P.I. is N. 56°40' W. 543.34 ft. (Record is N. 55°57 $\frac{3}{4}$ ' W.
 543.59 ft.) Set temp. stake for P. T.
 Thence N. 56°40' W.
 Along center line of railway.
 19.76 To point of intersection with line between Sec. 1 T. 1 S. R. 15 E.
 and Sec. 34 T. 1 N. R. 15 $\frac{1}{2}$ E. G. & S. R. B. & M.
 The closing cor. between Secs. 1 and 6 T. 1 S. Rs. 15 and 16 E.
 previously described bears E. 24.80 chs.
 The Std. Cor. Secs. 34 and 35 T. 1 N. R. 15 $\frac{1}{2}$ E. previously des-
 cribed bears East 29.95 chs.
 November 7, 1927.

BOUNDARIES EXCHANGE SURVEY

November 8, 1927.

Beginning at Cor. No. 1 on west bdy. of White Mtn. Indian
 Reservation at a point 184 lks. N. 8°21' E. of center line of
 Arizona Eastern Railway.

CROOK NATIONAL FOREST

STATE OF ARIZONA

10.

Chains Deposit a quartzite stone 2x5x7 ins. marked with a + 14 ins. in ground over which set a granite stone 16x8x6 ins. (no larger stone available) marked +, for point 1 E S 653 on W and W M I. R WB on E. face; raise md. stone 2 ft. base $1\frac{1}{2}$ ft. high northwest of cor. Drive an angle iron 2 ins. wide 3 ft. long 2 ft. in ground alongside of Cor. to south. No witnesses available. The 65 mile cor. (on west bdy. of White Mtn. Indian Reservation previously described bears N. $8^{\circ}21'$ E. 22.16 chs. The W.C. to $65\frac{1}{2}$ mile Cor. on West bdy. White Mountain Indian Reservation previously described bears S. $8^{\circ}21'$ W. 19.39 chs. The P.C. of 5° curve to left in center line of Arizona Eastern Railway easement bears S. $23^{\circ}37'55''$ W. 159 lks. Lat. $33^{\circ}22'06''$ N. Long. $110^{\circ}43'$ W. from Globe Quadrangle USGS. Mag. decl. at 8 a.m. $14^{\circ}18'$ E. Mean Mag. decl. $14^{\circ}15.4'$ E. Thence N. $67^{\circ}58'40''$ W. On computed long cord of curve to left having a radius of 1246.28 ft. and a central angle $38^{\circ}20'40''$. The actual boundary of this survey bet. cors. 1 and 2 is the arc of a circle of the given radius and central angle. 12.40 To Cor. No. 2. Deposit a schist stone 2x4x5 ins. marked with a + 18 ins. in ground, over which set a quartzite stone 24x10x6 ins. marked + for the point and 2 ES 653 on N. face. No witnesses available. The P.T. of 5° curve to left in center line of Arizona Eastern Railway easement bears S. $2^{\circ}51'$ W. 151.5 lks. Thence N. $87^{\circ}09'$ W. Along North bdy. of Arizona Eastern Railway easement - parallel to center line of railway 100 ft. dist. therefrom. 6.91 To Cor. No. 3 Deposit a schist stone $1\frac{1}{2}$ x5x6 ins. marked with a + 18 ins. in ground, over which set a quartzite stone 24x11x6 ins. marked + for the point and 3 E S 653 on N. face. No witnesses available.

CROOK NATIONAL FOREST

STATE OF ARIZONA

Chains The P. C. of a 5° curve to right in center line of Arizona Eastern
Railway easement bears S. 2°51' W. 151.5 lks.

Thence N. 76°48'30" W.

On computed long cord of a curve to right having a radius of
1046.28 ft. and a central angle of 20°41'. The actual bdy. of this
survey bet. cors. 3 and 4 is the arc of a circle of the given
radius and central angle.

5.69 To Cor. No. 4

Deposit a quartzite stone 2x3x7 ins. mkd. with a + 16 ins. in the
ground, over which set a quartzite stone 24x8x10 ins. marked +
for the point and 4 E S 653 on N. face.

No witnesses available.

The P. T. of a 5° curve to right in the center line of Arizona
Eastern Railway easement bears S. 23°32' W. 151.5 lks.

Thence N. 66°28' W.

Along N. bdy. of Arizona Eastern Railway easement - parallel to
center line of railway 100 ft. dist. therefrom

23.44 To Cor. No. 5

Deposit a schist stone 1 1/2x5x7 ins. marked with a + 16 ins. in
ground over which set a rhyolite stone 22x3x8 ins. (no larger
stone available) marked + for the point and 5 ES 653 on NE face.
No witnesses available.

The P. C. of 7° curve to right in center line of Arizona Eastern
Railway easement bears S. 23°32' W. 151.5 lks.

Thence N. 51°42'30" W.

On computed long cord of a curve to right having a radius of
719.02 ft. and central angle of 29°31'. The actual bdy. of this
survey bet. cors. 5 and 6 is the arc of a circle of the given radius
and central angle.

CROOK NATIONAL FOREST

STATE OF ARIZONA

12.

Chains
5.55'

To Cor. No. 6

Deposit a schist stone 2x3x3 ins. marked with a + 16 ins. in ground over which set a red granite stone 24x8x10 ins. marked + for the point and 6 E S 653 on N E face.

No witnesses available.

The P T of a 7° curve to right in center line of Arizona Eastern Railway easement bears S 53°03' W. 151.5 lks.

Thence N. 36°57' W.

Along N. bdy. of Arizona Eastern Railway easement - parallel to center line of railway 100 ft. dist. therefrom

4.65 To Cor. No. 7

Deposit a schist stone 2x3x7 ins. marked with a + 16 ins. in the ground over which set a quartzite stone 22x18x5 ins. (no larger stone available) marked + for point and 7 E S 653 on NE face.

No witnesses available.

The P.C. of 7° curve to left in center line of Arizona Eastern Railway easement bears S. 53°03' W. 151.5 lks.

Thence N. 59°40' W.

On computed long cord of a curve to left having a radius of 919.02 ft. and central angle of 45°26'. The actual bdy. of this survey bet. cors. 7 and 8 is the arc of a circle of the given radius and central angle.

10.75 To Cor. No. 8

Deposit a quartzite stone 4x6x8 ins. marked with a + 16 ins. in the ground over which set a granite stone 26x14x10 ins. marked + for the point and 8 E S 653 on N. face.

No witnesses available.

The P.T. of a 7° curve to left in center line of Arizona Railway easement bears S. 7°57' W. 151.5 lks.

Thence N. 82°23' W.

Along N. bdy. of Arizona Eastern Railway easement - parallel to center line of railway 100 ft. dist. therefrom.

Chains
12.34

To Cor. No. 9

Deposit a quartzite stone 2x6x6 ins. marked with a +14 ins. in ground over which set a quartzite stone 18x8x11 ins. (no larger stone available) marked 9 E S 653 on N. face
No witnesses available.

The P. C. of an 8° curve to right in center line of Arizona Eastern Railway easement bears S. 7°37' W. 151.5 lks.

Thence N. 60°00' W.

On computed long cord of a curve to right having a radius of 616.78 ft. and central angle of 44°46'. The actual bdy. of this survey bet. cors. 9 and 10 is the arc of a circle of the given radius and central angle.

7.12 To Cor. No. 10

Deposit a quartzite stone 3x5x5 ins. marked with a +18 ins. in the ground over which set a quartzite stone 22x5x14 ins. marked + for the point and 10 E S 653 on N.E. face.
No witnesses available.

The P.T. of an 8° curve to right in center line of Arizona Eastern Railway easement, bears S. 52°23' W. 151.5 lks.

Thence N. 37°37' W.

Along north bdy. of Arizona Eastern Railway easement - parallel to center line of railway 100 ft. dist. therefrom

4.54 To Cor. No. 11

Deposit a quartzite stone 2x3x5 ins. marked with a +20 ins. in ground over which set a quartzite stone 24x14x6 ins. marked + for point and 11 E S 653 on NE face.
No witnesses available.

The P.C. of an 8° curve to left in center line of Arizona Eastern Railway easement bears S. 52°23' W. 151.5 lks.

Thence N. 60°26' W.

On computed long cord of a curve to left having a radius of 816.78 ft. and a central angle of 45°38'. The actual bdy. of this survey is the arc of a circle of the given radius and central angle.

14.

Chains

9.60

To Cor. No. 12

Deposit a quartzite stone 3x6x6 ins. marked with a + 20 ins. in ground, over which set a quartzite stone 24x8x8 ins. marked + for the point and 12 E S 653 on N. face.
No witnesses available.

The P. T. of an 8° curve to left in center line of Arizona Eastern Railway easement, bears S. 6°45' W. 151.5 lks.

November 8, 1927.

November 9, 1927.

Thence N. 83°15' W. 57.310

Along North Bdy. of Arizona Eastern Railway easement - parallel to center line 100 ft. dist. therefrom

11.18

To Cor. No. 13

Deposit a schist stone 2x5x5 ins. marked with a + 16 ins. in ground over which set a granite stone 26x8x14 ins. marked + for the point and 13 E S 653 on N. face.
No witnesses available.

The P.C. of an 8° curve to right in center line of Arizona Eastern Railway easement, bears S. 6°45' W. 151.5 lks.

Thence N. 66°03'30" W.

On computed long cord of a curve to right having a radius of 616.78 ft. and a central angle of 34°23'. The actual bdy. of this survey is the arc of a circle of the given radius and central angle.

5.52

To Cor. No. 14

Deposit a quartzite stone 3x4x8 ins. marked with a + 20 ins. in the ground, over which set a granite stone 26x10x14 ins. marked + for the point and 14 E S 653 on NE face.
No witnesses available.

The P. T. of an 8° curve to right in center line of Arizona Eastern Railway easement bears S. 41°08' W. 151.5 lks.

Thence N. 48°52' W.

CROOK NATIONAL FOREST

STATE OF ARIZONA

.15.

Chains Along North bdy. of Arizona Eastern Railway easement parallel to center line 100 ft. dist. therefrom

4.83 To Cor. No. 15

Deposit a schist stone 3x4x4 ins. marked with a + 20 ins. in the ground over which set a granite stone 24x10x11 ins. marked + for the point and 15 E S⁶⁵³ on NE face.

No witnesses available.

The P. C. of a 10° curve to left in center line of Arizona Eastern Railway easement brs. S. 41°08' W. 151.5 lks.

Thence N. 84°13' W.

On computed long cord of a curve to left having a radius of 673.69 ft. and a central angle of 70°42'. The actual bdy. of this survey is the arc of a circle of the given radius and central angle.

11.81 To Cor. No. 16

Deposit a quartzite stone 3x4x5 ins. marked with a + .18 ins. in grd. over which set a rhyolite stone 26x10x14 ins. marked + for the point and 16 ES 653 on N. face.

No witnesses available.

The P. T. of 10° curve to left in center line of Arizona Eastern Railway easement bears S. 29°34' E. 151.5 lks.

Thence S. 60°26' W.

Along N. bdy. of Arizona Eastern Railway easement parallel to center line 100 ft. dist. therefrom

5.94 To Cor. No. 17

Deposit a schist stone 2x3x8 ins. marked with a + 18 ins. in the ground over which set a granite stone 24x10x12 ins. marked + for the point and 17 ES 653 on NW face.

No witnesses available.

The P.C. of an 8° curve to right in center line of Arizona Eastern Railway easement brs. S. 29°34' E. 151.5 lks.

Thence S. 78°39' W.

On computed long cord of a curve to left having a radius of 616.78

90

EXCHANGE
~~HOMESTEAD/LIVERY~~ SURVEY NO. 653

CROOK NATIONAL FOREST

STATE OF ARIZONA

. 16.

Chains 190 ft., and a central angle of $36^{\circ}26'$. The actual boundary of this survey is the arc of a circle of the given radius and central angle.

5.84 To Cor. No. 18

Deposit a schist stone $2 \times 5 \times 5$ ins. marked with a + 18 ins. in the ground over which set a green quartzite stone $22 \times 10 \times 12$ ins. (no longer stone available) marked + for the point and 18 ES 653 on N. face.

No witnesses available.

The P.T. of an 8° curve to right in center line of Arizona Eastern Railway easement bears S. $6^{\circ}52'$ W. 151.5 lks.

Thence N. $83^{\circ}08'$ W.

Along North bdy. of Arizona Eastern Railway easement parallel to center line 100 ft. dist. therefrom.

11.99 To Cor. No. 19

Deposit a schist stone $1 \frac{1}{2} \times 4 \times 5$ ins. marked with a + 18 ins. in ground over which set a granite stone $24 \times 8 \times 6$ ins. marked + for the point and 19 E.S. 653 on N face.

No witnesses available.

The P.C. of a 4° curve to left in the center line of Arizona Eastern Railway easement brs. S. $6^{\circ}52'$ W. 151.5 lks.

Thence N. $88^{\circ}15'30''$ W.

On computed long cord of a curve to left having a radius of 1532.7 ft. and a central angle of $10^{\circ}15'$. The actual boundary of this survey is the arc of a circle of the given radius and central angle.

4.15 To point for Cor. 20

Point for cor. falls in middle of Gila Meat Company's ditch - and would not be permanent if set at true point. Therefore, at a point S. $86^{\circ}37'$ W. 23 lks. dist. on solid grd. I set witness cor. as follows:

Chains

Deposit a schist stone 2x5x7 ins. marked with a + 16 ins. in the
grd. over which set a schist stone 24x9x6 ins. marked + for the
point 20 E S 653 on N. and W C on E. face.

True point for Cor. bears N. 86°37' E. 23 lks.

From true point for Cor. the P.T. of 4° curve to left in center
line of Arizona Eastern Railway easement brs. S. 3°23' E. 151.5 lks.

From true point for Cor.

Thence S. 86°37' W.

Along N. bdy. of Arizona Eastern Railway easement parallel to
center line 100 ft. dist. therefrom.

27.69 To Cor. No. 21

Deposit a schist stone 1¹/₂x5x6 ins. marked with a + 16 ins. in grd.
over which set a granite stone 24x8x10 ins. marked + for the point
and 21 E S 653 on N. face.

No witnesses available.

The P.C. of a 3°30' curve to right in center line of Arizona Eastern
Railway easement brs. S. 3°23' E. 151.5 lks.

Thence N. 85°03'30"W.

On the long cord of a curve to right having a radius of 1537.3 ft.
and a central angle of 16°39'. The actual bdy. of this survey
is the arc of a circle of the given radius and central angle.

6.74 To Cor. No. 22 and closing Cor. on twp. line bet. Secs. 1 and 6
T. 1 S. Rs. 15 and 16 E.

Deposit a schist stone 3x4x4 ins. marked with a + 20 ins. in grd.
over which set a schist stone 26x8x12 ins. marked + for the point
and CC 22 ES 653 on N. face.

No witnesses available.

The twp. closing cor. of T. 1 S. Rs. 15 and 16 E. previously des-
cribed brs. North 12.80 chs.

The 1/4 Cor. bet. Secs. 1 and 6 T. 1 S. Rs. 15 and 16 E. previously
described brs. South 8.14 chs.

Note: Point for Cor. No. 22 was determined by deflection angles

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EXCHANGE
~~HOMESTEAD/LAND~~ SURVEY NO. 653

CROOK NATIONAL FOREST

STATE OF ARIZONA

18.

computed from R.
3°48' 40"
page 384

Chains for a curve of $3^{\circ}44'$ to right, run to pt. of intersection with the twp. line, and the long cord distance measured from Cor. No. 21.

Thence N. $66^{\circ}42'$ W.

On the long cord of a curve to right having a radius of 1537.3 ft. and a central angle of $20^{\circ}04'$. The actual bdy. of this survey is the arc of a circle of the given radius and central angle.

8.12 To Cor. No. 23

Deposit a schist stone $1\frac{1}{2} \times 5 \times 5$ ins. marked with a + 18 ins. in the ground over which set a schist stone $24 \times 5 \times 11$ ins. marked + for the point and 23 ES 653 on NE face.

No witnesses available.

The P.T. of a $3^{\circ}30'$ curve to right in the center line of the Arizona Eastern Railway easement brs. S. $33^{\circ}20'$ W. 151.5 lks.

Thence N. $56^{\circ}40'$ W.

Along north bdy. of Arizona Eastern Railway easement parallel to center line 100 ft. dist. therefrom.

17.46 To Cor. No. 24 and closing Cor. on twp. line bet. Sec. 1 T. 1 S.

R. 15 E. and Sec. 34 T. 1 N. R. $15\frac{1}{2}$ E.

Deposit a sandstone $1 \times 6 \times 7$ ins. marked with a + 20 ins. in grd. over which set a sandstone $30 \times 12 \times 18$ ins. marked + for the point 24 E S 653 on E S E face and CC on E face.

No witnesses available.

The twp. closing cor. of Secs. 1 and 6, T. 1 S. Rs. 15 and 16 E. previously described brs. East 22.04 chs.

The std. Cor. Secs. 34 and 35 T. 1 N. R. $15\frac{1}{2}$ E. previously described brs. East 27.19 chs.

The std. $1/4$ Cor. on S. bdy. of Sec. 34 T. 1 N. R. $15\frac{1}{2}$ E. previously described brs. west 12.68 chs.

The center line Arizona Eastern Railway easement brs. West 2.76 chs.

Thence East

Along South bdy. Sec. 34 T. 1 N. R. $15\frac{1}{2}$ E.

CROOK NATIONAL FOREST
STATE OF ARIZONA

Chains

22.04 The Twp. closing Cor. of Secs. 1 and 6 T. 1 S. Rs. 15 and 16 E. previously described.

27.19 The Std. Cor. Secs. 34 and 35 T. 1 N. R. 15 $\frac{1}{2}$ E. previously described.

Thence N. 89°56' E.

Along South bdy. Sec. 35 T. 1 N. R. 15 $\frac{1}{2}$ E. W/2

39.74 To std. 1/4 cor. on S. bdy. Sec. 35 T. 1 N. R. 15 $\frac{1}{2}$ E. previously described.

Thence N. 89°56' E.

Along S. bdy. Sec. 35 T. 1 N.R. 15 $\frac{1}{2}$ E. E/2

39.94 To pt. for std. Cor. Secs. 35 and 36 T. 1 N.R. 15 $\frac{1}{2}$ E. which is 25 lks. W. of W.C. previously described.

From true pt. for Cor.

Thence N. 89°55' E.

Along S. bdy. of Sec. 36 T. 1 N.R. 15 $\frac{1}{2}$ E. W/2

.25 W C Std. Cor. Secs. 35 and 36 previously described.

39.98 To Std. 1/4 Cor. on S. bdy. of Sec. 36 T. 1 N.R. 15 $\frac{1}{2}$ E. previously described.

Thence N. 89°55' E.

Along S. bdy. Sec. 36 T. 1 N.R. 15 $\frac{1}{2}$ E. E/2

39.89 To std. Cor. T. 1 N. Rs. 15 $\frac{1}{2}$ and 16 E. previously described.

Thence N. 89°56' E.

Along S. bdy. Sec. 31 T. 1 N. R. 16 E.

28.17 To std. twp. closing Cor. Sec. 1 and 6, T. 1 S. Rs. 15 and 16 E. on W. bdy. of White Mountain Indian Reservation previously described.

Thence S. 8°13' W.

Along W. bdy. of White Mountain Indian Reservation

37.45 To 65 mile Cor. on W. bdy. of White Mountain Indian Reservation previously described.

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EXCHANGE
~~HOMESTEAD ENTRY~~ SURVEY NO. 653

CROOK NATIONAL FOREST

STATE OF ARIZONA

205

Chains

Thence S. 8°21' W.

Along W. bdy. of White Mountain Indian Reservation

22.16 To Cor. No. 1 of this survey, the point of beginning.

November 9, 1927.

AREA

Area in Sec. 1 T. 1 S. R. 15 E. surveyed..... 15.54 Acres

Area in Secs. 4, 5, and 6, T. 1 S. R. 16 E. unsurveyed.... 512.22 "

Total Area..... 527.76 Acres

CONFLICTS

There are no conflicts.

Survey completed November 9, 1927.

Thomas J. Meyer
Chief Surveyor, Forest Service.

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EXCHANGE
 TABLING AND CALCULATIONS OF HOMESTEAD ENTRY SURVEY NO. 653, STATE OF ARIZONA

CORNERS.	BEARING.	DISTANCE.	LATITUDES.		DEPARTURES.		DOUBLE M. D.	N. AREAS.		S. AREAS.	
			NORTH	SOUTH	EAST	WEST					
22 - CC 176	North	12.80	12 80				0 00				
CC - 34-35 176 - 80	East	5.15			5 15		5 15				
Sec. 35 - Sec. 36	N. 89° 56' E.	79.68	09		79 68		89 95	4 50			
Sec. 36 - Sec. 31	N. 89° 55' E.	79.87	11		79 87		249 44	17 46			
Sec. 31 - CC-WMIR	N. 89° 56' E.	28.17	03		28 17		357 45	3 57			
CC-WMIR-65 Mi. Cor.	S. 8° 13' W.	37.45		37 07		5 35	380 26		14103 84		
65 Mi. - Cor. 1	S. 8° 21' W.	22.16		21 93		3 22	371 68		8154 66		
1 - 2	N. 67° 58' 38" W.	12.40	4 65			11 49	356 97	1659 91			
2 - 3	N. 87° 09' W.	6.91	34			6 90	338 58	115 12			
3 - 4	N. 76° 48' 30" W.	5.69	1 30			5 54	326 14	423 98			
4 - 5	N. 66° 28' W.	23.44	9 36			21 49	299 11	2796 68			
5 - 6	N. 51° 42' 30" W.	5.55	3 44			4 36	273 26	940 01			
6 - 7	N. 36° 57' W.	4.65	3 72			2 80	266 10	989 89			
7 - 8	N. 59° 40' W.	10.75	5 43			9 28	254 02	1379 33			
8 - 9	N. 82° 23' W.	12.34	1 64			12 23	232 51	381 32			
9 - 10	N. 60° 00' W.	7.12	3 56			6 17	214 11	762 23			
10 - 11	N. 37° 37' W.	4.54	3 60			2 77	205 17	738 61			
11 - 12	N. 60° 26' W.	9.60	4 74			8 35	194 05	919 80			
12 - 13	N. 83° 15' W.	11.18	1 31			11 10	174 60	228 73			
13 - 14	N. 66° 03' 30" W.	5.52	2 24			5 05	158 45	354 93			
14 - 15	N. 48° 52' W.	4.83	3 18			3 64	149 76	476 24			
15 - 16	N. 84° 13' W.	11.81	1 19			11 75	134 37	159 90			
16 - 17	S. 60° 26' W.	5.94		2 93		5 17	117 45		344 13		
								12352 21		22602 63	

6
5
E

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EXCHANGE
 TABLING AND CALCULATIONS OF ~~ADJUSTED~~ ~~ADJUSTED~~ SURVEY NO. 653, STATE OF ARIZONA

#22

CORNERS.	BEARING.	DISTANCE.	LATITUDES.		DEPARTURES.		DOUBLE M. D.	N. AREAS.	S. AREAS.	
			NORTH.	SOUTH.	EAST.	WEST.				
	Brought forward	407.55	62 73	61 93	192 87	136 66		12352 21	22602 63	
17 - 18	S. 78° 39' W	5.84		1 15		5 73	106 55		122 53	
18 - 19	N. 83° 08' W.	11.99	1 43			11 90	88 92	127 16		
19 - 20	N. 88° 15' 30" W.	4.15	13			4 15	72 87	9 47		
20 - 21	S. 86° 37' W.	27.69		1 63		27.64	41 08		67 78	
21 - 22	N. 85° 03' 30" W.	6.74	58			6 72	6 72	3 70		
		463.92	64 87	64 71	192 87	192 80		12492 54	22792 94	
Error in Lat. & Dep.			64 71		192 80				12492 54	
Closing Error 1/2657			16		07				20) 10300 40	Acres
			64 76	64 76	192 81	192 81			515 02	
Formula used for figuring area segments A equals			$\frac{R}{2} (L - C \cos 1/2 \Delta)$						- 2 80	
	Area in Segment				1 - 2		- .870	Acres .8703		
	" " "				3 - 4	.098		.098		
	" " "				5 - 6	.133		.133		
	" " "				7 - 8		- .781	.781		
	" " "				9 - 10	.337		.337		
	" " "				11 - 12		- .625	.625		
	" " "				13 - 14	.154		.154		
	" " "				15 - 16		-1 .512	1.512		
	" " "				17 - 18	.183		.183		
	" " "				19 - 20		- .026	.026		
	" " "				21 - 22	.110		.110		
						1.015	-3.814	equals - 2.80		

9814
 1011
 1799
 2.80

97

ET

DATE	DESCRIPTION	AMOUNT	CHECK NO.	INITIALS	REMARKS
1931
1932
1933
1934
1935
1936
1937
1938
1939
1940
1941
1942
1943
1944
1945
1946
1947
1948
1949
1950

AMOUNT

1931

1940

1950

(1 - 1)

...

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EXCHANGE

TABLING AND CALCULATIONS OF ~~HOMESTEAD ENTRY~~ SURVEY NO. 653, STATE OF ARIZONA

#23

8-2340

CORNERS.	BEARING.	DISTANCE.	LATITUDES.		DEPARTURES.		DOUBLE M. D.	N. AREAS.	S. AREAS.	
			NORTH.	SOUTH.	EAST.	WEST.				
					Area in Sec. 1 Surveyed					
25 - $\frac{CC}{176}$	East	22.04'			22 04'		22 05'			
$\frac{CC}{176}$ - 22	South	12.80'		12 80'			44 10'		564 48'	
22 - 23	N. 66° 42' W.	8.12'	3 21'			7 46'	36 64'	117 61'		
23 - 24	N. 56 40' W.	17.46'	9 59'			14 59'	14 59'	139 92'		
		60.42	12 80	12 80	22 04	22 05		257 53'	564 48'	
						22 04			257 53	
						01			20) 306 95'	Acres
Closing Error	1/6042		12 80	12 80	22 05	22 05			15 347'	
					Area Segment 22 - 23				+ 19	
									15 537'	Acres
	Formula for figuring Area Segment: A equals $\frac{B}{2} (L - C \cos \frac{1}{2} \Delta)$									

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APPROVAL

PUBLIC SURVEY OFFICE

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

Phoenix, Arizona, March 21, 1930.

The foregoing field notes of Homestead Entry Survey No.

653

executed by **Thomas F. Myers, Chief Surveyor,** [Forest Service Title.]
under his special instructions, dated -----, 19-- , having
been critically examined, and the necessary corrections and explanations
made, the said field notes, and the surveys they describe, are hereby
approved.

John D. Adams

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

Office Cadastral Engineer.