U. S. DEPARTMENT OF AGRICULTURE
FOREST SERVICE

FIELD NOTES

EXHIBIT

SURVEY NO. 649

SITUATED IN THE

CIMARRON NATIONAL FOREST

ADDITIONAL DISTRICT NO. 3

In Section 3, surveyed, Township 2 S., Range 12 E.
In Section 35, surveyed, Township 1 S., Range 12 E.

and

Retracement W/2 line between Secs. 34 & 35, T. 1 S., R. 12 E.
part of W/2 S. Bdy. Sec. 35, T. 1 S., R. 12 E.
of the

Gila & Salt River Base and Meridian.

State of
Arizona.

Survey executed by C. A. Long, District Engineer, Forest Service

Under special instructions dated August 16, 1926

Survey commenced August 31, 1926

Survey completed September 8, 1926

OATH OF ASSISTANTS

We hereby certify that we assisted C. A. Long,
District Engineer, Forest Service,
in surveying all those
parts or portions of
Exchange
Surveys 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 incon-
venient to appear before an
officer to administer the oath
to assistants; hence they
were taken by the Surveyor.

Subscribed and sworn to before me this 8th day of
September, 1926.

[Signature]
District Engineer, Forest Service.

OATH OF SURVEYOR

1. C. A. Long, District Engineer, Forest Service

I do solemnly swear that, in strict conformity with the special instruc-
tions of the United States Commissioner Office of Public
Surveys
Dated: August 15, 1926
I have

under the Act of March 30, 1926 and May 11, 1926

situated within the

the same to be known as

surveyed Section 3

Cooke National Forest, in

Township 2 S., Range 12 E., and

surveyed Section 35

Township 1 S., Range 12 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

Subscribed and sworn to before me this 30th day of
September, 1926.

[Signature]
Notary Public.

My Commission Expires: 9/30/28
Chains

The tract of land embraced in this survey is largely occupied and improved by the Magma Copper Company, which it is proposed to grant to the said company in exchange for an equal value of timber land desired by the Forest Service.

The lands embraced in this survey are situated in Sec. 3, T. 2 S., R. 12 E., and Sec. 35, T. 1 S., R. 12 E., Gila and Salt River Base and Meridian, Crook National Forest, Arizona.

Surveyed under special instructions from the Office of Public Surveys for the State of Arizona, dated August 16, 1926, and in accordance with the Acts of March 20, 1922, and May 11, 1926.

The survey commenced August 31, 1926, and was executed with a Buff and Buff Transit No. 10302, equipped with a 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 slopes with a 500 link steel tape. The slope angles were determined with a clinometer.

August 31, 1926.

At the 1/4 section Cor. on the South boundary of Sec. 35, T. 1 S., R. 12 E., Gila and Salt River Base and Meridian, hereinafter described, in Latitude 33°17'30" N., Longitude 111°06'18" W. from township plat of T. 1 S., R. 12 E., Gila and Salt River Base and Meridian, accepted by the Commissioner on January 22, 1926, I observe Polaris as follows: Reference mark is to right of star.
Chains

<table>
<thead>
<tr>
<th>Time</th>
<th>Telescope</th>
<th>Angle from Star to Right</th>
</tr>
</thead>
<tbody>
<tr>
<td>6h 26m 05s</td>
<td>Direct</td>
<td>41°48'00&quot;</td>
</tr>
<tr>
<td>6h 26m 30s</td>
<td>Reversed</td>
<td>41°47'00&quot;</td>
</tr>
</tbody>
</table>

My watch was compared with Western Union time today and made to read correct 105th meridian standard time, which by the difference in longitude at this point is 24m 28s fast on l.m.t.

(1)

G.M.T. U.C. Polaris, Aug. 31, 1926 (Civil date) 3h01m36s a.m.

Sidereal Correction

<table>
<thead>
<tr>
<th></th>
<th>01m18s</th>
</tr>
</thead>
<tbody>
<tr>
<td>3h00m42s</td>
<td></td>
</tr>
</tbody>
</table>

l.m.t. of first observation, plus 12 hrs. 15h01m39s

Hour angle

| 15h01m15s |

Azimuth of star from first observation 180°55'54"

Azimuth of mark

| 222°43'54" | 180°00'00" |

Bearing of mark N. 42°43'54" E.

(2)

G.M.T. U.C. Polaris, Aug. 31, 1926 (Civil date) 3h01'36" a.m.

Sidereal Correction

| 01'12" |
| 3h00'24" |

l.m.t. of second obse, plus 12 hrs. 15h04'04"

Hour angle

| 15h03'40" |

Azimuth of star from second obse. 180°56'27"

Azimuth of mark

| 222°43'27" | 180°00'00" |

Bearing of mark N. 42°43'27" E.

The mean of the two observations gives the bearing of reference mark as N. 42°43'40" E., and from which the courses of this survey are referred.
Chains

September 2, 1926.

RETRACMENTS

Beginning at the 1/4 Sec. Cor. on the South boundary of Sec. 35, T. 1 S., R. 12 E., Gila and Salt River Base and Meridian, which is an iron post with brass cap, marked and witnessed as described by the Office of Public Surveys of Phoenix, Arizona.

Thence N. 89°55' W.

On the record course, along South boundary of Sec. 35.

39.52

Fall 2 lks. north of the original Cor. of Secs. 34 and 35, T. 1 S., R. 12 E., which is a trachite stone alongside of which there is an iron post with brass cap, marked and witnessed as described by the Office of Public Surveys.

True course N. 89°57'00" W. 39.52 chs.

From the 1/4 Sec. Cor. between Secs. 34 and 35, T. 1 S., R. 12 E., Gila and Salt River Base and Meridian, which is an iron post marked and witnessed as described by the Office of Public Surveys.

Thence N. 0°01'00" W.

Retracing line between Secs. 34 and 35. The Cor. of Secs. 26, 27, 34 and 35 being plainly visible.

18.80

Set temporary point for Cor. No. 1 E.S. 648.

40.03

Intersect the Cor. of Secs. 26, 27, 34 and 35, which is an iron post firmly set, marked and witnessed as described by the Office of Public Surveys.

True course N. 0°01'00" W. 40.03 chs.

September 2, 1926.

From Cor. No. 10, addition to Superior Township.

Which is also the NE. Cor. of the Isphamig Lode claim, alongside of which there is an iron post with
Chainsrass cap, marked and witnessed as described by the
Office of Public Surveys.
Thence S. 64°30' W.
On the record course and distance along the West
boundary of addition to Superior Townsite and the East
boundary of Ispheming Lode claim.
17.55
The record distance for Cor. #1 of the addition to the
Townsite of Superior. This point falls in middle of
street and the corner has been destroyed in grading
the street. Set temporary point for Cor. No. 1 of
the addition to the Townsite of Superior.
Thence N. 70°51'00" E.
On the record course from Cor. 1 - 2 of the addition
to the Townsite of Superior, measuring from the
temporary point previously set.
12.12
Set temporary point from which Cor. No. 2, addition to
the Townsite of Superior, which is an iron post with
brass cap flush with street level, marked and witnessed
as described by the Office of Public Surveys.
Bears N. 52°12'00" W. 4 lks. distant.
I compute the move for temporary point set for Cor. No. 1
A.S.T. as follows:
X : 4 = 17.55 : 29.68, hence X = 2.4 lks. I return
to the temporary point set for Cor. #1 A.S.T. and
move it 2.4 lks. N. 52°12'00" W. and set for Cor. No.
1 A.S.T. a limestone 6x14x18", marked with a / and 2.S.T.
on flat side and bury same 6" below the street level,
over the / I set a 1" pipe 6" long showing flush with
street level, whence the NW. Cor. of concrete coping
around porch of adobe house bears S. 01°24'00" W. 69
lks. distant.
An electric light pole on N. side of street bears
Chains

N. 48°08'00" E. 54 1ks. dist.
The NE. Cor. of an adobe house belonging to Jim Garrett
bears S. 49°11'00" W. 153 1ks. dist.
The true bearing of line 10 - 1 A.S.T. is S. 04°34'00"
W. 17.54 chains and line 1 - 2 A.S.T. is N. 79°47'00"
W. 12.11 chains distant.

From the NE. Cor. of the Magma Arizona Railroad Station
Grounds easement at Superior, Arizona, which is a 4x4"
wooden post, 24" above ground with a tack in center.
Thence N. 62°20'1" W.
On the record course given in the easement.

6.06
Intersect the remains of a 4"x4" wooden post, marking the
NW. Cor. of the Magma Arizona Railroad Station Grounds
Basement. To perpetuate the Cor., I set a 2" iron post
with brass cap, 26" in the ground, deposit a porphyry
stone 4x4x5", marked with a /, marked M.A.R.G, in SE.
quadrent of brass cap and 1926 on South rim.
Raise a mound of stone 3 ft. base 2 ft. high South of
Cor., whence the original Cor. to Secs. 34 and 35, now
an angle pt.
bears N. 70°33'00" W. 11.22 chs. (Record N. 70°40'30"
W. 11.25 chs.).

Thence S. 27°40'00" W.
On the record course and distance along the West
boundary of the Magma, Arizona Railroad Station Grounds
Basement.

12.51
The record distance for point of curve to the right
having a radius of 673.7 feet, and a central angle of
24°24'30", I set a temporary point at this place for
point of curve (call this point A). The computed
bearing and distance of the long chord of given
radius and central angle gives this as S. 44°52'15" W. 398.5 feet.

Thence S. 44°52'15" W.

On the computed bearing and distance of the long chord of a curve to the right having a radius of 673.7 feet and a central angle of 54°24'30".

The record distance.

To Point of tangency of a curve of 673.7 ft. radius and a central angle of 34°24'30". Set temporary point for P.T. (call this point B).

Thence S. 62°04'30" W.

On the record course and distance of a tangent connecting two curves on the West boundary of the Magma Arizona Railroad Station Grounds Baseline at Superior, Arizona.

0.72

The record distance to P.C. of a curve of 473.7 ft. radius and a central angle of 29°38'30" set temporary point for P.C. (call this point C).

Thence S. 51°45'15" W.

On the computed long chord of a curve to the left having a radius of 473.7 feet and a central angle of 20°38'30".

2.57

The record distance to P.T. of a curve having a radius of 473.7 feet and central angle of 20°38'30", set temporary point from which the original monument, marking this P.T., bears N. 64°00'00" W. 336 chs. distant. The original monument is a 4"x4" wooden post 2 ft. above ground and badly decayed. I restore this Cor. as follows: Set a porphyry stone 10x12x24", two-thirds in the ground, over a red granite stone 3x5x5" marked with a /, Cor. stone marked with a / on top and M.A.R.C. on SE. face. Place old post alongside. No witnesses, (call this point D). Point "D" will be
Chains

Cor. No. 19 of E.S. No. 648.

I compute the moves for Points A, B, and C as follows:

For Point A. X. : .035 = 12.81 : 22.15, hence X = .0208 chs.
For Point B. X. : .035 = 19.58 : 22.15, hence X = .0206 chs.
For Point C. X. : .035 = 19.58 : 22.15, hence X = .0218 chs.

I move Points A, B and C N. 64° 00' 00" W., .0208, .0206, and .0218 chs. respectively, which by computation gives the following bearings and distances between these points.

NW. Cor to Point A S. 27° 45' 00" W. 12.81 chs.
Points A to B S. 44° 55' 00" W. 5.04"
Points B to C S. 62° 10' 00" W. 0.73"
Points C to D S. 51° 50' 00" W. 2.55"

At Point "A" I deposit a sandstone 2x3x5", marked with a / 20", in the ground, over which set a granite stone 8x14x30", marked with a / on top and M.A.R.C. on SE. face. Raise mound of stone 3 ft. base, 2 ft. high W. of Cor., whence the NE. Cor. of galvanized iron scale house of the Magma Arizona Railroad bears S. 45° 20' 00" W. 80 lks. distant.

The NW. Cor. of galvanized iron freight depot of the Magma Arizona Railroad bears S. 19° 45' 00" E. 120 lks. distant. Point "A" will be Cor. No. 16 of E.S. No. 648.

At Point "B" I deposit a red granite stone 2x3x4", 18" in the ground, over which I set a red quartzite stone 10x14x24", marked with a / on top and M.A.R.C. on SE. face. Raise mound of stone 3 ft. base, 2 ft. high NW. of Cor. No other witnesses available. Point "B" will be Cor. No. 17 of ES. No. 648.

At Point "C" I deposit a granite stone 3x5x4", marked with a / 18" in the ground, over which set a porphyry stone 14x18x24", marked with a / on top and M.A.R.C.
EXCHANGE
HOMESTEAD ENTRY. SURVEY NO. 648
CROOK NATIONAL FOREST
STATE OF ARIZONA

Chains on SE. face. Raise mound of stone 3 ft. base, 2 ft. high, NW. of Cor. No other witnesses available.
Point "C" will be Cor. No. 16 of E.S. No. 648.

September 4, 1926.

Beginning at Point "D", on the West boundary of Magma Arizona Railroad Station Grounds Basement at Superior, Arizona, and what will be Cor. #19, of E. S. No. 648, here to fore described.

Thence S. 44°29'00" W.
Along West boundary Magma Arizona Railroad Station Grounds Basement at Superior, Arizona, the SW. Cor. being plainly visible.

4.98 Intersect the SW. Cor. of Magma Arizona Railroad Station Grounds Basement at Superior, Arizona, which is a 4"x4" wooden post with tack in center, firmly set in mound of stone and projecting 24" above ground.

Thence S. 48°34'00" E.
On record course along South boundary Magma Arizona Railroad Station Grounds Basement at Superior, Arizona.

9.58 Fall 3/10 lk. North of the SE. Cor. of Magma, Arizona Railroad Station Grounds Basement at Superior, Arizona, which is a 4"x4" wooden post, 24" above ground and badly decayed. I restore this Cor. by depositing a limestone 1"x4"x6", marked a / 18 ins. in the ground, over which I set a limestone 10x12x24", marked a / on top and M.A.R.C. on North face. Raise mound of stone 3 ft. base 2 ft. high North of Cor. No other witnesses available.

True course of this line is S. 48°35'00" E. 9.58 chs.

From Cor. #3, E.E.S., 439, which is a basalt stone showing
Chains

(10x12x5" record)

5x12x16" above ground, marked and witnessed as described in the notes of that survey.

Thence S. 57°22'00" W.

On the record course and distance, on line 3 - 2 of HES. No. 439.

14.66 Fall 2-2/10 lks. S. 32°36'00" E. of Cor. No. 2 of HES. No. 439, which is a diorite stone showing 5x10x12" above ground, marked and witnessed as described in the notes of HES. No. 439.

Thence N. 57°27'00" E.

On a true course on line 2 - 3 of HES. No. 439.

7.49 Intersect the South boundary of Magma Arizona Railroad Station Grounds, Eastemt, from which the SW. Cor. of same bears N. 46°33'00" W. 5.46 chs. and the SE. Cor. of same bears S. 46°33'00" E. 4.12 chs. distant. Set temporary point for Cor. No. 21 of E3. No. 648.

14.66 Cor. No. 3 of HES. No. 439, the place of beginning.

From Cor. No. 2 HES. No. 439 herefore described.

Thence S. 32°11'00" W.

On the record course and distance of line 2 - 1 of HES. No. 439.

7.24 Intersect Cor. No. 1 of HES. No. 439, which is also Cor. No. 1 of HES. 438, which is a diorite stone showing 10x6x10" above ground, marked and witnessed as described in the notes of HES. No. 438 and 439.

NOTE

The instructions for the survey specified that Sec. 36, T. 1 S., R. 12 E., will be subdivided in order to place the North boundary of this survey on the latitudinal lines through the SW. \( \frac{1}{4} \) NW\( \frac{1}{2} \) and the SE\( \frac{1}{4} \)NW\( \frac{1}{2} \). However, this was not done as it was
EXCHANGE
KOMOKHUMA #1 SURVEY NO. 649
CROOK NATIONAL FOREST
STATE OF ARIZONA

Chains
determined on the ground by the Forest Service and
Magma Copper Co. that such a boundary would be un-
desirable.

Cor. 1 of Silver Tip Extension M.S. 3144. Corners 1, 3
and 4 of Reddy Pay M.S. 3144.

Corners 1, 2, 3 and 4 of Jumbo M.S. No. 3144, and Cor.
#9 of the addition to Superior Townsite was submerged
to a depth of 10 to 30 feet in the tailings from the
mill, and these lines were not retraced as it was im-
possible to do so; furthermore some of these mill site
boundaries were retraced by Sidney E. Blount, U. S.
Surveyor in connection with the survey of Addition to
Superior Townsite in June, 1917, and found to be well
within limits. I therefore adopt as the record courses
and distances in this survey for the purpose of closing
the tract and assign corner numbers at the appropriate
angle points without actually setting corners 3, 5 and
6 of this tract.

September 5, 1925.

BOUNDARIES OF E. S. NO. 649

which is also a closing corner on the line 26, Sec. 34
Sec. 1 of this survey, 20 acres 438.4 acres. Sec.
53' x 54', marked with a 2' 25 ins. in the ground, over
which I set a 2" iron post 33" long, with brass cap,
marked 1926 on South rim, CC on closing line and 1 BS
648 in SE. quadrant, and T 18 S R 12 S 34 in W. half.
Raise a mound of stone 3 ft. base 2 ft. high on
closing line. Pits impracticable. No other witnesses
available.

The Cor. to Secs. 26 - 27, 34, and 35, T. 1 S., R. 12 E.
heretofore described, bears N. 0°01'00" W. 81.43 chs.
distant.

The 1/4 Cor. between Secs. 34 and 35, T. 1 S., R. 12 E.
Chains determined on the ground by the Forest Service and Magna Copper Co. that such a boundary would be undesirable.

Cor. 1 of Silver Tip Extension M.S. 3144. Corners 1, 3 and 4 of Reddy Pay M.S. 3144.

Corners 1, 2, 3 and 4 of Jumbo M.S. No. 3144, and Cor. #9 of the addition to Superior Townsite was submerged to a depth of 10 to 30 feet in the tailings from the mill, and these lines were not retracted as it was impossible to do so; furthermore some of these mill site boundaries were retraced by Sidney E. Blount, U. S. Surveyor in connection with the survey of Addition to Superior Townsite in June, 1917, and found to be well within limits. I therefore adopt as the record courses and distances in this survey for the purpose of closing the tract and assign corner numbers at the appropriate angle points without actually setting corners 3, 5 and 6 of this tract.

September 5, 1928.

BOUNDARIES OF E.S. NO. 649

which is also a closing corner on the line 20th S, Sec. 34

Per Cor. No. 1 of this survey, I deposit a duplicate curb
3x3x3/4", marked with a G, 28 ins. in the ground, over which I set a 2" iron post 33" long, with brass cap, marked 1926 on South rim. 30 on closing line and 1 ES 649 in SE quadrant, and T 1 S R 12 S 34 in W. half. Raise a mound of stone 3 ft. base 2 ft. high on closing line. Fits immostracible. No other witnesses available.

The Cor. to Secs. 26 - 27, 34, and 35, T. 1 S., R. 12 E.

Heretofore described, bears N. 0°01'00" W. 21.43 chs.
distant.

The 1/4 Cor. between Secs. 34 and 35, T. 1 S., R. 12 E.
Chains here to fore described, bears E. 0°01'00" E. 18.60 chs. distant.

Magnetic declination at 8 a.m. 15°30'00" E. Mean magnetic declination 15°27'00" E.

Latitude 33°18'08" N., Longitude 111°06'49" W. from Public Survey Office plat of T. 1 S., R. 12 W.

Thence S. 77°39'00" E.

Descend steep SE. slope over open land.

1.60 Dry wash 20 lks. wide, course S. 25°00'00" W.

Ascend NW. slope.

13.00 Top of ridge bears N. 20°00'00" E., and S. 30°00'00" W.

Descend.

17.50 Dry wash 20 lks. wide, course S. 20°00'00" W.

Ascend.

20.00 Top of ridge bears N. 20°00'00" E., and S. 20°00'00" W.

Descend.

22.00 Dry wash 10 lks. wide, course S. 30°00'00" W.

Ascend.

23.00 Top of ridge bears N. 30°00'00" E., and S. 30°00'00" W.

Descend.

29.31 To Cor. No. 2, identical with Cor. No. 2 of Silver Tip Extension M. S. 3144, which is a wooden post, 4"x4"x34" above ground with tack in center and firmly set in mound of stone; alongside of post to the west I set a limestone 10x14x28" marked 2 ES 648 on SW. face.

Raise mound of stone 4 ft. base, 3 ft. high around Cor. Pile impracticable; no other witnesses available.

Thence S. 13°45'00" E.

Adopting the record course and distance of line 2 - 1 of Silver Tip Extension M. S. No. 3144, without actually running the line.

5.30 To Cor. No. 3, identical with Cor. No. 1 of Silver Tip
EXCHANGE
HOMESTEAD ENTRY SURVEY NO. 648.
CROOK NATIONAL FOREST
STATE OF ARIZONA

Chains

Extension M.S. No. 3144. This point falls in tailings pond and Cor. is buried about 16 ft. deep. No Cor. set at this point for Cor. No. 3 of this survey.

Thence S. 76°05'00" W.,

Adopting the record course and distance from Cor. 1
Silver Tip Extension M.S. No. 3144 to Cor. 2 Reddy Pay M.S. No. 3144, without actually running the line.

2.13

To Cor. No. 4, identical with Cor. No. 2 Reddy Pay M.S. No. 3144 and Cor. 4 Horseshoe M.S. No. 3144, which is a wooden post 4"x4"x2", above ground, with a tack in center, and firmly set in mound of stone. Alongside this post I set a conglomerate stone 12x12x2", in a mound of stone 4 ft. base 3 ft. high and mark the Cor. stone 4.28 548 on NW. face. No witnesses available, pits impracticable.

Thence S. 13°58'00" E.,

Adopting the record course and distance between Reddy Pay M.S. No. 3144 and Horseshoe M.S. No. 3144, without actually running the line as it is in the tailings.

9.417

Leave line between Reddy Pay M.S. No. 3144 and Horseshoe M.S. No. 3144, and continue on the record course between Jumbo M.S. No. 3144 and Fractio M.S. No. 3144.

18.53

To Cor. No. 6, identical with Cor. No. 1 of Jumbo M.S. No. 3144 and Fractio M.S. No. 3144. This point falls in tailings pond 30 to 40 feet deep. No Cor. set for M.S. No. 648.

Thence N. 75°08'00" E.,

Adopting the record course and distance along line 1 of Jumbo M.S. No. 3144, without actually running the
EXCHANGE
HOMESTEAD-ENTRY SURVEY NO. 548
CROOK NATIONAL FOREST
STATE OF ARIZONA

Chains 5.31
Cor. No. 4 of Jumbo M.S. No. 3144, which is also Cor. No. 1 of Monarch M.S. No. 3144. Thence along line 1 - 4 of Monarch M. S. No. 3144, without actually running the line.

7.49 To Cor. No. 6, identical with Cor. No. 9 of the addition to the Townsite of Superior, which Cor. is adopted as Cor. No. 6 of this survey, without setting a corner as it is covered with tailings to a depth of about 10 ft.

Thence S. 87°08'00" E.
Adopting the record course and distance of line 9 - 10 of the addition to the Townsite of Superior, without actually running the line.

1.68 To Cor. No. 7, identical with Cor. No. 10 of the addition to the Townsite of Superior, which is also the NE. Cor. of the Isphening Lode claim heretofore described. West and alongside of this corner I set a limestone 8x16x24" in a mound of stone and mark same 7 ES 548. No witnesses available.

September 6, 1926.

Thence S. 06°54'00" W.
Along line 10 - 1 of the Addition to the Townsite of Superior; and along the East boundary of the Isphening Lode claim; wire fence is 1 lk. E. and bears S. 04°34'00" W.

0.50 Cross to East side of fence.

5.00 Cross to West side of fence at corner from which fence bears N. 30°00'00" E.

7.20 Dry wash 10 lke. wide, course S. 20°00'00" W.

10.15 To Cor. No. 8. Deposit a limestone 2x2x3", marked with .
Chains

a 1/2, over which I set an iron post 35 ins. long, with brass cap, 25 ins. in the ground, marked on brass cap 8 ES 648 on West half and A.S.T. on East half and 1926 on South rim. Raise mound of stone 3 ft. base 2 ft. high West of Cor., whence a granite boulder in place showing 3 ft. x 4 ft. x 2 ft. above ground and marked 8 1/2 ES 648 B.O. bears S. 25°10'00" E. 29 lns. distant. Cor. No. 1 of the addition to the Townsite of Superior heretofore described, bears S. 04°34'00" W. 7.59 chs. distant.

To Cor. No. 4.

Deposit a limestone 3x3x4" marked with a 1/2 26 ins. in the ground, over which I set an iron post 2" dia. 30" long, with brass cap marked 1926 on S. rim and 9 ES 648 on West side. Raise mound of stone 3 ft. base, 2 ft. high West of Cor., whence the NW. Cor. of adobe house owned by Sedillio Lopez bears S. 77°43'00" E. 37 1/2 lns. distant. No other witnesses available, pits impracticable.

To Cor. No. 10.

Deposit a limestone 3x4x4" marked with a 1/2 26 ins. in the ground, over which I set an iron post 36" long with brass cap marked 1926 on S. rim and 10 ES 648 on W. face. Raise mound of stone 3 ft. base 2 ft. high West of Cor. Pits impracticable; no other witnesses available.
Chains

To Cor. No. 11 and Closing Cor. on line between Secs. 3 and 35, Tps. 1 and 2 S., R. 12 E.
Deposit a limestone 2x3x6", marked with a /18" in the ground, over which I set a limestone 10x12x26 ins., marked with a / on top, 05 on closing line and 11 ES 648 on West face. Raise mound of stone 3 ft. base, 2 ft. high on closing line, whence the SW. Cor. of a square well bears N. 69°03'00" East 68 lks. distant. The original Cor. to Secs. 24 and 35, T. 1 S., R. 12 E., herefore described, which is now an angle point, bears N. 89°57'00" W. 81.05 chs. The 1/4 Sec. Cor. on South boundary Sec. 35, herefore described, bears S. 89°57'00" E. 13.47 chs.

To Cor. No. 12.
Deposit a limestone 2x3x6", marked with a /28" in the ground, over which set an iron post 2" dia. 36" long, with brass cap, marked 0286 on S. rim and 12 ES 648 on West side. Raise mound of stone 3 ft. base 2 ft. high West of Cor., whence a willow 14" dia. blazed and scribed 12 / ES 648 B.T. bears N. 68°13'00" W. 58 lks. distant. SE. Cor. of galvanized iron pump house owned by the Magma Copper Co. bears N. 50°19'00" W. 62 lks. distant. No other witnesses available.

September 7, 1928.
Thence S. 71°33'00" W.
Cor. of wire fence, whence fences bear N. 30°00'00" E.
and S. 71°33'00" W.
To Cor. No. 13.
Chains
Deposit a limestone 4x4x5 ins., marked with a / on the ground, over which set a limestone 10x12x24 ins., marked with a / on top and 13B 64S on the north face. Raise mound of stone 3 ft. base, 2 ft. high, West of Cor. Fits impracticable, no other witnesses available.

Thence S. 42°21'00" W.
Along West side of wire fence 2 Lks. distant, which bears with line.

2.56 To Cor. No. 14, on North boundary Magma Arizona Railroad Station Grounds Basement, at Superior, Arizona.
Deposit a limestone 1x2x3", marked with a / 23 ins. in the ground, over which set an iron post 2 ins. dia. 36 ins. long, with brass cap, marked 1926 on South rim, M.A.R.C. on SW. and 14 ES 64S in NW. quadrant. Raise mound of stone 3 ft. base, 2 ft. high North of Cor.
The NE. Cor. of Magma Arizona Railroad Station Grounds Basement at Superior, Arizona, herefore described, bears S. 62°20'00" E. 75 Lks. distant. The NW. Cor. of Magma Arizona Railroad Station Grounds Basement, herefore described, bears N. 62°20'00" W. 5.28 chs. distant. No witnesses available.

Thence N. 62°20'00" W.
Along E. boundary Magma Arizona Railroad Station Grounds Basement.

2.57 Spur railroad track to Standard Oil Co. warehouse bears NW. and SE.

5.23 To Cor. No. 15, identical with the NW. Cor. of Magma Arizona Railroad Station Grounds Basement at Superior, Arizona, which is an iron post 2 ins. dia., 36 ins. long, set 26 ins. in the ground, over a porphyry stone 4x4x5", marked with a /, The brass cap is marked 1926.
Chains on South rim and M.A.R.C. in SE. quadrant. I mark this brass cap 15 ES 648 in NW. quadrant for Cor. No. 15 of this survey, and raise a mound of stone 3 ft. base, 2 ft. high NW. of Cor.

The original Cor. to Secs. 24 and 35, T. 1 S., R. 12 E., which is now an angle point, bears N. 70°33'00" W., 11.22 chs. (Record is N. 70°40'30" W., 11.26 chs.). No witnesses available, pits impracticable.

Thence S. 27°45'00" W.

Over open level land along the West boundary of Magma Arizona Railroad Station Grounds - Basement.

12.61 To Cor. No. 16, identical with point 1 hereafter described, which is a granite stone 8x1dx5x8", set 20" in the ground, over a sandstone 2x2x5 ins., marked with a $. Cor. marked with a $ on top and M.A.R.C. on SE. face. I mark the same stone 15 ES 648 on NW. face and raise a mound of stone 3 ft. base, 2 ft. high W. of Cor. Pits impracticable. Whence the NE. Cor. of galvanized iron scale house of the Magma Arizona Railroad bears S. 45°20'00" W. 80 lks. distant.

The NW. Cor. of galvanized iron freight depot of the Magma Arizona Railroad bears S. 19°45'00" E. 120 lks. distant.

Thence S. 44°35'00" W.

On the long chord of a curve to the right, having a radius of 673.5 feet, and a central angle of 34°24'30".

The actual boundary of the claim between corners 16 and 17 is the arc of a circle of the given radius and central angle.

6.04 To Cor. No. 17, identical with Point "B" hereafter described, which is a granite stone. 10x14x24", set 18 ins. in the ground, over a red granite stone 2x5x4", marked with a $.
Chains

Cor. stone marked with a / on top and M.A.R.C. on SE. face and witnessed by a mound of stone 3 ft. base 2 ft. high NW. of Cor. I mark the same stone 17 ES 648 on NW. face for Cor. No. 17 of this survey. No witnesses available.

Thence S. 62°10'00" W.

On a tangent marking the West boundary of the Magna Arizona Railroad Station Grounds.

0.73 To Cor. No. 18, identical with Point "G" heretofore described, which is the P.C. for a curve to the left having a radius of 473.7 feet and a central angle of 20°38'30". The Cor. stone is a stone 14x12x24" set 18 ins. in the ground, over a granite stone 5x5x4", marked with a /. Cor. is marked M.A.R.C. on SE. face with a / on top, and mound of stone 3 ft. base and 2 ft. high NW. of Cor. I mark this same stone 16 ES 648 on NW. face for Cor. No. 18 of this survey. No witnesses available.

Thence S. 51°50'00" W.

On the long chord of a curve to the left, having a radius of 473.7 feet and a central angle of 20°38'30". The actual boundary of the claim is the arc of a circle of the given radius and central angle.

2.56 To Cor. No. 19, identical with Point "D" heretofore described, which is a porphyry stone 10x10x24" set two-thirds in the ground, over a red granite stone 3x5x6", marked with a /. Cor. stone marked with a / on top and M.A.R.C. on SE. face. I mark this same stone 19 ES 648 on NW. face for Cor. No. 19 of this survey and raise a mound of stone 3 ft. base, 2 ft. high NW. of Cor. No witnesses available, pits impracticable.
Chains

September 3, 1926.

Thence S. 41° 29' 00" W.

Along the W. boundary of Magma Arizona Railroad Station Grounds Basement at Superior.

4.98 To Cor. No. 20, identical with the SW. Cor. of the Magma Arizona Station Grounds Basement at Superior, heretofore described. SW. and alongside this Cor. I set a porphyry stone 12x14x24" in a mound of stone 4 ft. base, 4 ft. high, and mark same 20 ES 648. Fits impracticable, no other witnesses available.

Thence S. 46° 33' 00" E.

Along South boundary of Magma Arizona Station Grounds Basement.

2.20 Center of Phoenix-Superior Highway bears N. 40° 00' 00" E. and S. 40° 00' 00" W.

5.46 To Cor. No. 21, on South boundary Magma Arizona Railroad Station Grounds Basement and also on line 2 - 3 of HES. No. 439. Deposit a porphyry stone 2x2x6", marked with a 4 16 ins. in the ground, over which set a porphyry stone 8x14x24 ins.; marked a 4 on top and 21 ES 648 on W. face. Raise mound of stone 3 ft. base, 2 ft. high W. of Cor. Fits impracticable, no other witnesses available. Cor. No. 2 HES. 439 bears S. 57° 27' 00" W. 7.49 chs. Cor. No. 3 HES. 439 bears N. 57° 27' 00" E. 7.17 chs.

The SE. Cor. Magma Arizona Railroad Station grounds Basement, heretofore described, bears S. 46° 33' 00" E. 4.12 chs.

Thence S. 57° 27' 00" W.

Along line 3 - 2 of HES. 439.

7.49 To Cor. No. 22, identical with Cor. No. 2, of HES. 439.
EXCHANGE
HOMESTEAD ENTRY
SURVEY NO. 648
CHUCK NATIONAL FOREST
STATE OF ARIZONA

Chains
NW. end alongside this Cor., I set a limestone 14\times 18\times 24", 16 ins. in the ground, marked 22 ES 648 on NW. face. Raise mound of stone 3 ft. base, 2 ft. high NW. of Cor. Pits impracticable, no witnesses available.

Thence S. 32°11'00" W.
Along line 2 - 1 of HES. 439.

7.24
To Cor. No. 23, identical with Cor. No. 1 HES. 439, and Cor. No. 1 HES. 438, hereafter described. NW. and alongside this Cor., I set a porphyry stone 10\times 12\times 24", 16 ins. in the ground, marked 23 ES 648 on NW. face. Raise mound of stone 3 ft. base, 2 ft. high in claim. Pits impracticable, no witnesses available.

Thence N. 95°23'00" W.
Over open, level land.

2.04
To Cor. No. 24, and Closing Cor., identical with the 1/4 Sec. Cor. between Secs. 3 and 4, T. 2 S., R. 12 E., which is a trachite stone showing 8\times 10\times 8 ins. above ground, marked 1/4 on W. face and a on top. East and alongside of this Cor., I set a porphyry stone 10\times 18\times 24", 16 ins. in the ground, marked 30. on E. face, and 24 ES 648 on NE. face. Raise mound of stone 3 ft. base, 2 ft. high, on closing lim. Pits impracticable, no witnesses available.

Thence N. 6°02'00" W.
Between Secs. 3 and 4, T. 28, R. 12 E. N 1/2, adopting the record courses and distances for the purpose of closing this survey without actually running the line.

33.90
The Closing Cor. of Secs. 3 and 4 on the North Boundary of T. 2 S., R. 12 E.

Thence S. 83°57'00" E.
EXCHANGE

HOMESTEAD ENTRY SURVEY NO.

CROOK NATIONAL FOREST

STATE OF Arizona

Chains

Along South boundary Sec. 34, T. 1 S., R. 12 E.,
adopting the record course and distance for the purpose
of closing this survey, without actually running the
line.

13.17
The Cor. of Secs. 34 and 35 on S. boundary T. 1 S., R. 12 E.

Thence N. 0°01'W.
adopting the record course and distance between Secs.
34 and 35, T. 1 S., R. 12 E., S. 1/2, without actually
running the line.

40.00
To 1/4 Cor. between Secs. 34 and 35 heretofore described.

Thence N. 0°01'W.
On line between Secs. 34 and 35, N. 1/2. This line
was actually run.

18.60
To Cor. No. 1 and closing corner on line between Secs.
34 and 35, the place of beginning.

CONFLICTS

This survey conflicts with Horseshoe and Fraction M.S.
#3144, surveyed but not patented. The Metes and Bounds
as recorded description of these claims is as follows:

Horseshoe M.S. #3144

<table>
<thead>
<tr>
<th>Corners</th>
<th>1-2</th>
<th>S. 76° - 03° W.</th>
<th>330.00 ft.</th>
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<td>&quot;</td>
<td>2-3</td>
<td>N. 13° - 55° W.</td>
<td>621.50 &quot;</td>
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<td>&quot;</td>
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<td>N. 76° - 03° E.</td>
<td>349.50 &quot;</td>
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<td>&quot;</td>
<td>4-1</td>
<td>S. 13° - 58° E.</td>
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<td>Area 4.99 acres</td>
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Fraction M.S. #3144

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<tr>
<td>&quot;</td>
<td>4-1</td>
<td>S. 13° - 58° E.</td>
<td>621.50 &quot;</td>
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<td></td>
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<td>Area 4.98 acres</td>
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Corners 1 and 4 of Fraction M.S. #3144 and corner 1
of Horseshoe M.S. No. 3144 are covered by tailings from
the mine.
<table>
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<tr>
<th>Chains</th>
<th>AREA</th>
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<tr>
<td>Area in Sec. 35, T. 1 S., R. 12 E.</td>
<td>179.82 A.</td>
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<td>Area in conflict with Horseshoe M. S. Survey #3144</td>
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<td>&quot; &quot; &quot; Fraction &quot; &quot; &quot;</td>
<td>4.98</td>
</tr>
<tr>
<td>Area in Sec. 3, T. 2 S., R. 12 E.</td>
<td>60.83 A.</td>
</tr>
<tr>
<td>Total Area</td>
<td>231.65 A.</td>
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Survey completed September 8, 1926.

[Signature]
District Engineer, Forest Service.
E. G. Dentzer, being duly sworn, says he is the chief engineer of the Magma Railroad Company; that the survey of the tract described as follows:-- beginning at a point which bears S. 45° 34' E., 100.00 feet from engineer's sta. L 1527 / 00.3 of the definite location of the Magma Arizona Railroad, thence N. 41° 26' E. 328.9 feet along the main line right of way, thence continuing along the main line right of way on a curve to the right with a radius of 473.7 feet for a distance of 170.64 feet, thence N. 62° 04' 30" E. 48.4 feet along the main line right of way, thence continuing along the main line right of way on a curve to the left with a radius of 673.7 feet for a distance of 404.58 feet, thence N. 27° 40' 30" E. 845.60 feet along the main line right of way to a point which bears S. 62° 20' E., 100.00 feet from engineer's sta. L 1545 / 32.6 of the definite location of said railroad, and which point bears S. 70° 40' 30" E., 742.3 feet from what will be when surveyed the southwest corner of Sec. 35, T. 1 S., R. 12 E., G & S. R. B. & M., thence S. 62° 20' E., 400.00 feet, thence S. 27° 40' W., 1571.74 feet, thence S. 41° 26' W., 328.9 feet, thence N. 48° 34' W., 632.68 feet to the place of beginning, an area of 20 acres and no more; was made by him as chief engineer of the company, and under its authority, commencing on the 1st day of October, 1914, and ending on the 18th day of October, 1914; that the survey of the said tract is accurately represented on this plat and by the accompanying field notes; that the company has occupied no other grounds for similar purposes upon public lands within the section of 10 miles, from the 20th mile to the 30th mile, for which this selection is made; that, in his belief, the said grounds are actually, and to their entire extent, required by the Company for the necessary uses contemplated by the act of Congress approved March 3, 1875, entitled "An act granting to railroads the right of way thru the public lands of the United States."

E. G. Dentzer

Chief Engineer.

Subscribed and sworn to before me this 20th day of October, 1914.

John J. Neary
Notary Public

My commission expires July 22nd, 1917.
Length of arc = \(1.01745 \times 10.207 \times 34.408\), hence arc = 6.12848 ch

Area of circular segment = \(\frac{6.128}{2} \times 10.207 - \) (area of triangle A-16-17)

Area of segment = 1.838 sq. ch.
length of arc = \(0.01745 \times 7.177 \times 20.64^\circ\), hence arc = 2.58493 ch.

Area of circular segment = \(\frac{2.585}{2} \times 7.177 - (\text{Area of Triangle A18-19})\)

Area of segment = 0.197 sq chains
<table>
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<tr>
<th>CORNERS</th>
<th>BEARING</th>
<th>DISTANCE</th>
<th>LATITUDES</th>
<th>DEPARTURES</th>
<th>DOUBLE M. D.</th>
<th>N. AREAS</th>
<th>S. AREAS</th>
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</thead>
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<td>14 - 15</td>
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**Note:**
- North to 60 bet.
- Sec. 3 and 4
- 24 to 28 Secs.
- Cor Secs. 34 to 35 to
- A P to Cor. 11

**Closing Error = 0.628**

Area of Circular Segment 16-17

- 16-17

- 20
<table>
<thead>
<tr>
<th>CORNERS</th>
<th>BEARING</th>
<th>DISTANCE</th>
<th>LATITUDES</th>
<th>DEPARTURES</th>
<th>DOUBLE M. D.</th>
<th>N. AREAS</th>
<th>S. AREAS</th>
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<td>11 - A P</td>
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<td>Cor. 34-35 to Cor.</td>
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</table>

Tie from Cor. 15 to A P
| N 70° 33' 59" W | 11.22  | 3.74     | 11.22     | 10.58       | 20.81       |
| S 09° 57' 59" W | 21.05  | 0.02     | 21.05     | 0.02        | 21.05       |
| S 07° 59' 59" W | 3.03   | 0.03     | 3.03      | 3.03        | 3.03        |
| S 71° 57' 59" W | 5.65   | 1.22     | 2.65      | 2.65        | 2.65        |
| S 45° 51' 59" W | 2.65   | 1.89     | 1.72      | 1.72        | 1.72        |
| N 62° 20' 59" W | 5.23   | 2.44     | 4.64      | 4.64        | 4.64        |

20 3416 38 170.22 acres
APPROVAL

PUBLIC SURVEY OFFICE,

-Office-of-the-united-states-Surveyor-General-

Phoenix, Arizona, November 17, 1926

The foregoing field notes of Homestead Entry Survey No.

EXCHANGE SURVEY NO. 648

executed by C. A. Long, District Engineer,

under his special instructions, dated Aug. 16, 1926 having

been critically examined, and the necessary corrections and explanations

made, the said field notes, and the surveys they describe, are hereby

approved.

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