

MORENCI T. S.  
CONTRACT N° 61  
P. CONTZEN  
U. S. DEP. SUR

2039

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BOOK 2039

Approved by G.L.O.

4-671

2039

FIELD NOTES 2039

GENERAL LAND OFFICE.

2039

Field - Notes  
 — of the survey —  
 of the  
 Exterior - Boundaries  
 — of the —

**MORENCI** —

Town - Site  
 situated in the N. E.  $\frac{1}{4}$   
 of Sec. 21 and N. W.  $\frac{1}{4}$  of Sec. 22  
 " T 4 S. R. 29 E "  
 of the  
 Gila & Salt River Base & Mer.  
 in the  
 Territory of Arizona  
 as surveyed by  
 Philip Conzen  
 U. S. Deputy - Surveyor  
 Under his Contract No 61  
 Dated February 5<sup>th</sup> 1900  
 Survey commenced March 22, 1900  
 Survey completed March 23, 1900

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# Preliminary Oaths of Assistants.

BOOK <sup>2039</sup>  
We,

*A. L. Campbell*

and *J. O. Hays*

do solemnly swear that we will well and faithfully execute the duties of Chain Carriers; that we will level the chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distance to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of the *exterior*

*lines of the Morenci townsite*

of the Gila and Salt River Base and Meridian in the Territory of Arizona.

*A. L. Campbell* Chainman.

*J. O. Hays* Chainman.

Chainman.

Chainman.

Subscribed and sworn before me, this *20<sup>th</sup>*

day of *March* 1900. *1899*

*George Homyer*  
Notary Public.

[SEAL.]

*my Commission*

We, D. E. Address and

Robert Steggall

do solemnly swear that we will well and truly perform the duties of

flagman and axman

in the establishment of corners and other duties, according to instructions given us, and to the best of our skill and ability, in the survey of the

exterior lines of the Morenci townsite

of the Gila and Salt River Base and Meridian, in the Territory of Arizona.

D. E. Address, Axman  
Robt Steggall, Flagman

Subscribed and sworn to before me this 20<sup>th</sup>

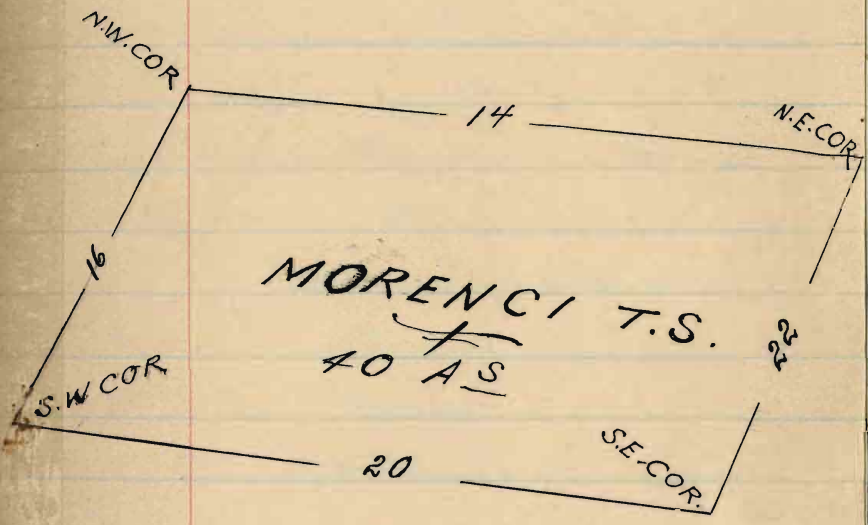
day of March, 1900

George Homeyer

Notary Public.

expires Jan'y 13<sup>th</sup> 1904

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## Exterior boundaries of

Survey commenced  
March 20<sup>th</sup> 1900 and  
executed with a Young  
and Sons light mountain  
transit No 5609 with  
a Smiths solar  
attachment.

The instrument was  
examined, tested on  
the true meridian  
at Tucson and found  
correct and was  
approved by the  
Surveyor General  
for Arizona.

I begin at cor.  
for sec's 13, 14, 23 & 24  
of T. 4 S. R. 29 E,  
which is a stone

the Morenci townsite

firmly set, and  
properly marked,  
with mound of  
stone on the W. —

In order to  
test the solar  
apparatus, by  
comparing the re-  
sults of observation  
on the sun, made  
during a. m. and  
p. m. hours, with  
a true meridian,  
determined by  
observations on  
Polaris, I proceed  
as follows: —  
At the above mentioned  
Cor., at 3.30 p. m.



# Exterior boundaries of

l. m. t., March 20-1900

I set off  $33^{\circ} 2' N$   
 on the lat. arc,  $0^{\circ} 3' S$   
 on the decl. arc, and  
 mark the true meridian  
 thus determined with  
 the solar, by a cross  
 on a stone firmly set  
 in the ground, 5 chs  
 N of the instrument.

— At 7<sup>h</sup> 22<sup>m</sup>, p. m.  
 l. m. t., I observe  
 Polaris at western  
 elongation, in accordance  
 with instructions in  
 the Manual and  
 mark the line thus  
 determined, by a tack

## the Morenci townsite

driven in a wooden  
plug set in the ground,  
5 chs. north of my station.  
at 7 a. m. March  
21, I lay off the  
azimuth of Polaris  
 $1^{\circ}28'$ , to the East  
and mark the true  
meridian thus determined  
by cutting a small  
groove in the stone  
set yesterday, on  
which the true  
meridian falls 0.15 ins  
east of the mark  
determined by the  
solar.

At  $9^{\text{h}}20^{\text{m}}$  a. m.,  
I set off  $33^{\circ}2'$ , on

## Exterior boundaries of

the lat. arc,  $0^{\circ}15'$  lon  
decl. arc, and mark  
the true meridian  
determined with the  
solar by a cross on  
the stone, already  
set 5 chs. N. of my  
station, this mark  
falls 0.19 ins. east of  
the true meridian,  
established by the  
Polaris observation.  
The solar apparatus,  
by p. m. and a. m.  
observations, defines  
positions for true  
meridians, about  
 $0^{\circ}8'$  west and  $0^{\circ}11'$  east  
of the meridian

the Morenci townsite

established by the  
Polaris observation,  
therefore, I conclude  
that the adjustments  
of the instrument  
are satisfactory.

The magnetic bearing  
at 9.30 a.m., is  
 $N 12^{\circ} 32' W$ ; the  
angle thus determined,  
reduced by the table,  
page 100, gives the  
mean mag. decl.  
 $12^{\circ} 30' E$ .

Thence I ran  
due West in compliance  
with my instructions  
at the distance of  
160 chs., I found

## Exterior boundaries of the

that the survey called for in my special instructions would not cover the townsite of Morenci, as occupied, so I discontinued my line, and interviewed a number of the principal citizens, which applied for the townsite survey. I was informed that their townsite claim embraced 40 acres, commencing on the South line of the Pelican lode

## Morenci townsite

and thence Easterly  
for about 2000 ft  
along the Morenci  
creek and canyon  
and about 500 ft  
on each side of  
said canyon.

At the request  
of the citizens of  
Morenci and further  
more to avoid  
unnecessary delay  
I proceeded to  
establish the boundaries  
of the townsite as  
designated to me  
by the citizens who  
made the application  
for a townsite

# Exterior boundaries of survey.

March 22, 1900.

At a point on the North Side of Morenci Canyon, and about  $\frac{1}{2}$  Mile Easterly from the Detroit Copper Co. Smelter, I set a lime stone  $30 \times 10 \times 10$  ins., with a marked stone, 20 ins., in the ground for the N. E. cor. of the Morenci townsite, marked with (+) cross for an exact cor. point and N. T. S. N. E. COR. on

S. W. face, and raise a mound of stone 3 ft base <sup>2 ft high</sup> s. w. of cor. <sub>fits impracticable</sub> from this

# the Moresci townsite

cor. bears a cross (+)  
 cut on a lime stone  
 30" x 24" x 18" above ground  
 marked B. O., bears  
 $N 10^{\circ} 20' E$ . 40.7 ft. dist.  
 Cor. to secs. 13, 14, 23 & 24  
 T. 4 S. R. 29 E. bears  
 $N 81^{\circ} 42' E$  9860 ft  
 Smoke stack of  
 Detroit Copper Co.  
 Smelter, bears  $N 71^{\circ} 45' W$   
 N. E. cor. of Spoon's  
 house, bears  $S 67^{\circ} 45' W$   
 — At 9<sup>h</sup> 15<sup>m</sup> a. m.,  
 l. m. t. at the cor  
 just established  
 I set off  $33^{\circ} 2'$  on  
 the lat. arc;  $0^{\circ} 39' N$ ,  
 on the decl. arc; and



# Exterior boundaries of Feet

determine a true  
meridian with the  
solar.

Thence I run  
N 70° W,

Over mountainous land;  
descending

250.00 Foot of descent;  
wash 5 ft. wide, course  
Westerly; ascend

400.00 Top of spur, bears  
Southerly; descend to

750.00 Rocky gulch, 10 ft wide,  
Course S. Easterly; ascend

930.00 Small stone house,  
bears S 30° W, 23 ft. dist,

950.00 Top of ascent; and  
descend to

1210.00 Rocky gulch, 4 ft.,

## the Morenci townsite

Feet

1868.5

wide, course S. Westery  
and ascend steep

Set a limestone  
26" x 20" x 15", with  
marked stone, 18 ins  
in the ground,  
for the N.W. Cor.  
of the Morenci  
townsite, marked  
with (+) cross for  
exact cor. point,  
and M. T. S. N. E. COR.  
on S. E. face; and  
raise a mound of  
stone 3½ ft. base,  
2½ ft. high S. E.  
of cor. Pits impractical.  
A cross (+) cut on  
a limestone 24" x 18" x 2"

# Exterior boundaries of Feet

above ground and  
marked B O, bears  
S  $17^{\circ}$  W - 7.8 ft. dist;

A cross (+) cut on  
a limestone  $18" \times 12" \times 2"$

above ground and  
marked B+O, bears  
S  $72^{\circ} 10' E$  16.4 ft. dist.

Land of mountainous  
Soil, worthless

No timber.

Mountainous land 1868.5 ft

Thence S  $41^{\circ} 10' W$

Over mountainous land,  
descending

398.00 Pipe line, bears N. W.  $2^{\text{nd}}$  of S. E.

460.00 Adobe house, on line

500.00 Foot of descent; and

## the Morenci townsite

Feet

- Morenci Creek 20 ft  
wide, course S. <sup>1</sup>Easterly
- 522.00 Point for Cor. <sup>3</sup> $N 0^{\circ} W$   
of the Pelican lode  
Sur.  $N^{\circ} 1031 A$ .
- 522.60 N. W. cor. of Point  
Baker's Adobe house
- 570.00 At this point,  
I offset  $N 48^{\circ} 50' W$   
70 ft. on account  
of buildings on line.  
Thence  $S 41^{\circ} 10' W$
- 800.00 Offset  $S 48^{\circ} 50' E$  70 ft  
back to line
- 892.00 Lumber shack, bears  
N. W. and S. E.
- 1000.00 Set a lime stone  
 $24 \times 18 \times 16$  ins., with  
marked stone, 16

# Exterior boundaries of Feet

ins. in the ground  
for the S. W. cor.  
of the Morenci townsite,  
marked with (+) cross  
for exact cor. point  
and M. T. S. S. W. COR  
on N. E. face; dig  
a pit  $24 \times 24 \times 12$  ins  
N  $41^{\circ} 10' E$  7 ft. dist  
and a pit  $24 \times 24 \times 12$  ins  
S  $70^{\circ} E$  7 ft. dist;  
and raise a mound  
of earth 5 ft. base  
2 ft. high N. E. of  
cor. —

Cor. No 4 of Pelican  
lode - Sur. No 1031 A,  
bears S  $41^{\circ} 10' W$  - 1022 ft  
dist. —

## the Morenci townsite

Feet

Smoke stack of Detroit  
Copper Co. Smelter, bears  
N 22° 40' W.

Face of Tunnel on  
Pelican lode, bears  
N 73° 40' W

A cross (+) on lime  
stone 24" x 18" x 8" above  
ground and marked  
B-O bears S 16½° E  
22.44 ft. dist.

Land mountainous  
Soil 3<sup>rd</sup> and worthless  
No timber

Mountainous land 1000 ft  
March 22. 1900

March 23. 1900

At 8 h 35<sup>m</sup> a. m. l. mt  
I set off 33° 2' on the

# Exterior boundaries of Feet

lat. arc, and  $10^{\circ} 1' S$   
on decl. arc; and  
determine a true  
meridian with the  
solar, at the S.W.  
Cor. of the Morenci  
townsite.

Thence I run  
 $S 70^{\circ} E$

Over mountainous  
land, along N. slope  
of mountains, ascending

- |        |  |
|--------|--|
| 110.00 | Gulch 3 ft. wide course Nly                  |
| 225.00 | Top of ascent                                |
| 325.00 | Small ravine 2 ft. wide,<br>course Northerly |
| 700.00 | Descend abruptly to                          |
| 790.00 | Rocky gulch 10 ft.<br>wide, course N. Ely    |

## the Morenci townsite

Feet	
1025.00	and ascend steep Top of ascent and begin to descend gradually
1203.00	Shaft 4 x 6 ft. 25 ft. deep bears $N 30^{\circ} E - 40$ ft.
1710.00	Foot of descent; Gulch 6 ft. wide, course Northerly; ascend
868.5	Cor. point falls on Lime stone 36 x 16 x 6 ins. above ground I cut a cross (x) at the exact cor. point, for the S. E. cor. of the Morenci townsite, and mark the same M. T. S.
	S. E. COR; and raise a mound of stone



# Exterior boundaries of Feet

3 ft. base,  $2\frac{1}{2}$  ft  
high N. W. of cor.  
pts impracticable  
A cross(x) on a lime  
stone  $30 \times 20 \times 15$  ins.,  
above the ground,  
and marked B+O,  
bears  $S 38^{\circ} W$ , 3.7 ft  
dist.

Land mountainous  
Soil, worthless

No timber

Mountainous land 1868.5 ft

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Thence I run

$N 41^{\circ} 10' E$

Descending

36.00

Telephone line, bears  
N. Westerly and S. Easterly

63.00

Telegraph line, bears  
N. Westerly and S. Easterly

## the Morenci townsite

Feet	
180.00	Trail, bears N. Westerly <sup>and</sup> S. Easterly
185.00	Pipeline, bears N. Westerly and S. Easterly
250.00	Rocky gulch, 6 ft. wide, course Westerly
312.00	Road from Morenci to Clifton bears Easterly and Westerly
360.00	Morenci Creek, 30 ft wide, course Easterly, foot of descent, ascend
1000.00	To the N. E. Cor., of the Morenci, townsite, the place of beginning of mountainous Soil, worthless

# Exterior boundaries of

5 ac

No timber

Mountainous land 1000 ft

March 23. 1900

BOOK 2039

## General Description

The Morenci townsite is situated partly in the N. E.  $\frac{1}{4}$  of Sec. 21 and N. W.  $\frac{1}{4}$  Sec. 22 of T. 4 S. R

29 E (unsurveyed) and contains 40 acres.

The land embraced within this townsite is apparently of a nonmineral character, the same is covered by a limestone formation. There is no timber. The town is supplied

the Morenci townsite

Feet

with water by the Detroit Copper Co., which has, together with the Arizona Copper Co., a number of mines, Westerly of said townsite.

There are about 300 inhabitants living within the townsite, the same being to some extent employees of the above mentioned companies and many are carrying on business of various kinds. There are many valuable

## Exterior boundaries of Feet

improvements in the way of dwelling and business houses, representing a value of about \$30,000 to \$40,000. This townsite which is only about  $3\frac{1}{2}$  miles N. Westerly of the town of Clifton is of great importance, owing to the close business connections with the people employed by the Detroit Copper Co. and also of the Arizona Copper Co. - At present, there is a narrow -

the Morenci townsite. Concluded

Feet

gauge railway  
under construction  
which will when  
completed, connect  
Morenci with  
 Lordsburg which  
is situated on  
the Southern Pacific  
Railroad and will  
thereby add to a  
great extent to  
the growth and  
value of Morenci.

Philip Conzen  
U. S. Deputy Surveyor

Computation of Area.

(NAT. SINE 68°50')

1868.5 x 1000 x .932524 =

43560

40.00 Acres.

