

Filed Jan'y 3, 1898

Nogales 1.

2040

Townsite

~~in office~~

Nogales.

BOOK 2040  
4-978

FIELD NOTES

2040

GENERAL LAND OFFICE.

2040

BOOK 2040

2040

## Preliminary Oaths of Assistants.

We, *C. H. Hodgdon*  
 and *C. Bartholemj*  
 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

*Nogales Townsite,*  
*within the Town-*  
*ship 24 South*  
*Range 14 East*  
 of the Gila and Salt River Base and Meridian in  
 the Territory of Arizona.

*C. H. Hodgdon* Chainman.

*C. Bartholemj* Chainman.

Chainman.

Chainman.

Subscribed and sworn before me, this *9<sup>th</sup>*

day of *November* 189*7*

*F. J. Duffly*  
 Notary Public.

We, *E. J. Sage* and  
*Fred J. Sweet*

do solemnly swear that we will well and truly per-  
form the duties of *flag man and*  
*axeman*

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.....

*Mogales townsite*  
*within the Townships*  
*24 South, Range 14 East*  
of the Gila and Salt River Base and Meridian, in  
the Territory of Arizona.

*E. J. Sage, Flag man*  
*Fred J. Sweet,*  
*axeman*

Subscribed and sworn to before me this *9th*

day of *November* 189*7*

*G. J. Duffly*  
Notary Public.



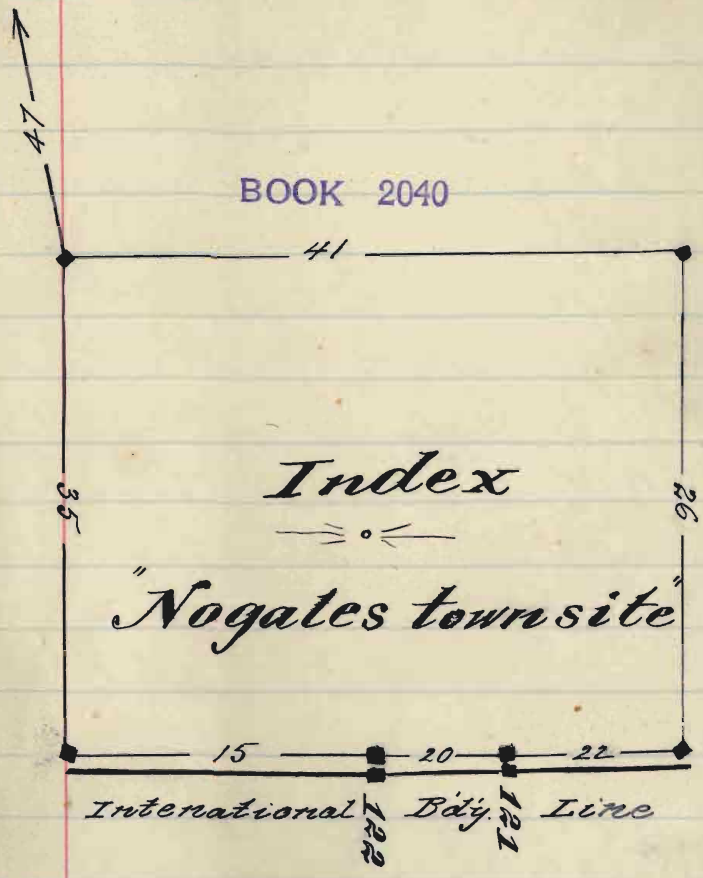
Field-Notes  
of the survey of the  
exterior boundaries  
of the townsite of  
Nogales, Pima Co. Arizona

— within —  
T 23 S. R. 14 E.

— of the —  
Gila and Salt River,  
Base and Meridian.

— in the —  
Territory of Arizona  
as surveyed by  
Philip Coutzen  
U. S. Deputy Surveyor  
Under his Contract No 44  
Dated June 14<sup>th</sup> 1897  
Survey commenced, Oct. 13. 1897  
Survey completed, Nov. 15. 1897

BOOK 2040



Exterior boundaries of

In compliance with my special instructions, issued to me by the Surveyor General for the execution of the survey of the exterior-boundaries of the Nogales townsite I proceeded to execute said survey  
October 13, 1897. —

In order to test the solar apparatus, by comparing the results of observations on the sun made during a. m. and p. m. hours, with a meridian determined by observations on Polaris, I proceed as follows:



the townsite of Nogales.

At a point 4 ft. N. of  
 Iron Monument N<sup>o</sup> 121,  
 on the International  
 boundary line between  
 the United States and  
 the Republic of Mexico,  
 I drive an iron nail  
 6 ins. in the ground, over  
 which, I set my instrument  
 which is a Young and  
 Sons light mountain  
 transit N<sup>o</sup> 5609, with  
 a Smiths solar attachment.  
 the same was examined  
 and tested on the true  
 meridian at Tucson,  
 and found correct and  
 was approved by the  
 Surveyor General for Arizona

## Exterior boundaries of

— At 3<sup>h</sup> 15<sup>m</sup> p. m.,  
 l. m. t., I set off  
 31° 20' N. on the lat.  
 arc.; 8° 8<sup>m</sup> 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

October 13<sup>th</sup> 1897

October 14<sup>th</sup>. At 5<sup>h</sup> 40<sup>m</sup>  
 a. m., l. m. t., I observe  
 Polaris at western  
 elongation in accordance  
 with instructions in  
 the Manual, and mark



the townsite of Nogales-Continued

the line thus determined, by a tack driven in a wooden plug set in the ground, 5 chains north of my station.

At 6<sup>h</sup> 30<sup>m</sup>, a. m., I lay off the azimuth of Polaris,  $1^{\circ} 27'$ , 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 0.14" ins. west of the mark determined by the solar. —

At 9<sup>h</sup> 30<sup>m</sup>, a. m., I set off  $31^{\circ} 20' N.$ , on the

Exterior boundaries of

lat. arc,  $8^{\circ}25'$  S. on  
the 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 0.2 ins.  
west of the true meri-  
dian established by the  
Polaris observation.

The solar apparatus,  
by p. m. and a.m. ob-  
servations, defines po-  
sitions for true meridians,  
about 0.8" east, and  
0.11" west of the meridian  
established by the Polaris  
observation; therefore,

the townsite of Nogales - Continued

I conclude that the adjustments of the instrument are satisfactory. The magnetic bearing of the true meridian, at 9<sup>h</sup>. 30<sup>m</sup>. a. m., is  $N 12^{\circ} 18' W$ ; the angle thus determined, reduced by the table, page 100, gives the mean mag. decl.  $12^{\circ} 15' E$ .

I now proceed to test the courses bet. iron monuments N<sup>o</sup> 3 120, 121, 122 and 123 on the "International Boundary Line" on which the survey of



Exterior boundaries of the  
the townsite of  
Nogales, is based,  
and I find the same  
to differ, considerable  
from monument to  
monument; therefore  
the International  
boundary line is  
not an East and  
West line, as contemplated  
by the original survey  
made by Major Emory  
in 1854 and 1855; and  
owing to the fact that  
the distance between  
monuments N<sup>o</sup> 121<sup>2nd</sup> / 122  
is less than a  $\frac{1}{4}$  of  
a mile and the courses  
bet. monuments differ,

townsite of Nogales. Continued

I find it necessary for the purpose of defining the 60 feet limit, set aside by presidents proclamation of June 25. 1897. for customhouse purposes, to report to the surveyor general, and ask for additional instructions. —

On November 1. 1897 I receive the additional instructions, asked for, from the surveyor general.

Nogales, Pima Co. Arizona  
November 9. 1897:

## Exterior boundaries of

Before commencing the survey of the exterior of the townsite of Nogales, I proceed to the meridian established by me October 13<sup>rd</sup>/14 40 ft. west of Mon. N<sup>o</sup> 124, and test my instrument on the same, and I find the adjustments to be correct

---

I now proceed to establish the S. Cent. Mon. of the Nogales townsite, 60 feet N. of Iron Monument N<sup>o</sup> 122 - Latitude  $31^{\circ}19'57''$  N. Longitude  $110^{\circ}56'34''$  W.;



the townsite of Nogales - Continued

as follows: Owing to the fact that Mon. N°122 is surrounded by buildings N. of the International Boundary Line and a direct line N. is not practicable, I proceed as follows: I establish a point due South of Mon. N°122, 6 ft. dist; from this point I run East 50 ft.; thence North 52 ft. to a point near the Entrance of the "Casino Saloon"; thence I run N 74° 21' W. in saloon, 51.92 ft. to a point 60' ft. North

## Exterior boundaries of the

Feet

of Mon. N<sup>o</sup> 122; this point falls in an adobe wall, which bears N 58<sup>1</sup>/<sub>4</sub> W. <sup>2</sup>/<sub>d</sub> S 58<sup>1</sup>/<sub>4</sub> E. I cut into the wall sufficient to place the necessary mon. - I set a sand stone 10x10x30 ins. on the stone foundation of said wall, and cement the S. side of the mon. firmly into the wall, and mark the same "N. T. S. S. Cent." on N. face. No bearings available; pits impracticable

November 9, 1897

Transite of Nogales - Continued  
Feet

November 10: At  
9<sup>h</sup> 30<sup>m</sup>, A. M., C. M. T.,  
I set off 31°20' N. on  
lat. arc, and 17°20' S.  
on decl. arc, and  
determine a true  
meridian with the  
solar at a point  
6 ft. S. of Mon. N°22;  
Being unable to run  
from the S. Cent.  
Mon., I run, from  
the above point, which  
is 66 ft. S. of S. Cent. Mon.  
S 89°48' W, on offset  
line, parallel to the  
International Boundary  
Line, 100 ft. thence  
offset North, 66 ft. to



Exterior boundaries of the  
Feet

- true line. From this point, the true line, intersects W. side of building, at a point.  $N 89^{\circ} 48' E$ . 37 ft.
- 114.4 Side track of the New-Mexico <sup>2</sup>/<sub>3</sub> Arizona Railroad, bears  $N 37^{\circ} \frac{1}{4}' E$  <sup>2</sup>/<sub>3</sub> of  $S 37^{\circ} \frac{1}{4}' W$
- 124.6 Main track of the New-Mexico <sup>2</sup>/<sub>3</sub> Arizona Railroad, bears  $N 37^{\circ} \frac{1}{4}' E$  <sup>2</sup>/<sub>3</sub> of  $S 37^{\circ} \frac{1}{4}' W$ .
- 158.6 Intersect Railroad depot bears  $N 37^{\circ} \frac{1}{4}' E$  <sup>2</sup>/<sub>3</sub> of  $S 37^{\circ} \frac{1}{4}' W$ .
- 191.0 Leave depot bears  $N 37^{\circ} \frac{1}{4}' E$  and  $S 37^{\circ} \frac{1}{4}' W$ , thence over platform
- 201.0 Leave platform, bears  $N 37^{\circ} \frac{1}{4}' E$  and  $S 37^{\circ} \frac{1}{4}' W$ .
- 210.0 Side track, bears  $N 37^{\circ} \frac{1}{4}' E$  and  $S 37^{\circ} \frac{1}{4}' W$ .

townsite of Nogales - Continued

- Feet
- 2090' Enter Nogales wash,  
course N. N. E.
- 307.0' Leave Nogales wash,  
course N. N. E.
- 463.0' Intersect fence, bears  
N 46½° E. and S 46½° W.;  
at this point I  
offset S. 60 ft.; then,  
run on offset line  
S 89° 48' W. along  
the International  
Boundary Line;
- 1700.0' Offset North 60 ft., to  
the true line; N. 6 ft. W.  
of J. M. Espinosa's  
porch, and 6 ft. S. of house.
- 1702.6' Fence, bears N. and S.,  
and begin to descend
- 2015.0' Stone Wall, bears N. E. of S.

# Exterior boundaries of

Feet

- 2050.0' Foot descent
- 2400.0' Enter Nogales wash, course S.E.
- 2450.0' Leave Nogales wash, course S.E.
- 2565.0' Nogales wash, 30 ft. wide,  
course N.E.
- 2640.0' Set a sand stone,  
10 x 10 x 30 ins., with  
marked stone, 20 ins.,  
in the ground, for  
the S.W. cor. of the  
Nogales townsite,  
marked "N.T.S. S.W.  
Cor." on N.E. face;  
dig pits 24 x 24 x 12 ins.  
E. and N. of cor, 8 lks.  
dist., and raise a  
mound of earth  
4 ft. base, 2 ft. high  
N.E. of cor., from which



the townsite of Nogales - Continued

Feet  
An oak 20 ins. diam.,  
bears N 30° E, 158 ft. dist.;  
marked N.T.S. S.W. Cor. B.S.

An oak 12 ins. diam.,  
bears N 24° 25' W, 387½ ft.  
dist.; marked N.T.S. S.W. Cor. B.S.

Flag staff of the  
Mexican Custom house,  
bears S 72° 18' E.

Spear of "La Francesa"  
store, bears S 83° 20' E.

N.E. cor. of Dolores

Peratta's house, bears  
S 67° 20' E, 260 ft.

Mean variation at <sup>12015</sup> <sub>18</sub>  
Land level <sup>2<sup>nd</sup></sup> of rolling  
Soil, 2<sup>nd</sup> and 4<sup>th</sup> rate  
No timber.

November 10, 1897

# Exterior Boundaries of

Feet

November 11: At 9<sup>h</sup> 10<sup>m</sup>  
 A. M., l. m. t., I set  
 off  $31^{\circ}20'N$  on the lat.  
 arc, and  $17^{\circ}37'S$  on the  
 decl. arc, and determine  
 a true meridian, at  
 a point 12 ft. S. of  
 Mon. N<sup>o</sup> 122, or 72 ft.  
 S. of "S. Cent. Mon."  
 thence, I ran an offset  
 line  $N 89^{\circ}33'E$ , parallel  
 to the International  
 boundary line: 420 ft.  
 ascend steep ridge;  
 520 ft. offset to the  
 North 72 ft. to the  
 true line

520 Leave buildings bearing  
 N. Easterly and S. Westerly

the townsite of Nogales - Continued

Feet

839.3

and continue to ascend  
 Point 60 ft. due North  
 of Iron Monument  
 No 121 on the International  
 boundary line, where  
 I set a sandstone  
 with marked stone  
 10 x 10 x 30 ins. 20 ins. in  
 the ground for mon.  
 on the S. boundary  
 of the Nogales townsite,  
 defining the 60 ft. limit  
 North of Mon. No 122,  
 marked "N. T. S. S. B."  
 on N. face and raise  
 a mound of stone 3 ft.  
 base, 3 ft. high, N. of cor.  
 from which: Flagstaff  
 on the Mexican custom-  
 house, bears  $S 68^{\circ} 40' W$ .



Exterior boundaries of  
Feet

Flag pole of American  
custom house, bears  
 $N60^{\circ}25'W$ .

Watertank of Railroad,  
bears  $N65\frac{1}{2}^{\circ}W$

Baldy peak of the  
Santa Rita Mountains,  
bears  $N12^{\circ}4'E$ .

Mean Var. at cor.  $12^{\circ}15'E$ .

Land level and mountainous  
Soil loam and stony,  
2<sup>nd</sup> and 4<sup>th</sup> rate  
No timber.

From mon. 60 ft.  
North of Iron Monument  
 $N^{\circ}121$  Iron  
 $N89^{\circ}17'E$  on true  
line, parallel to the

the townsite of Nogales - Continued

Feet	International boundary line bet. Monuments No <sup>s</sup> 121 and 120 Over mountainous land, descending
176.0'	Trail, bears N. and S.
226.0'	Foot of descent and enter Gulch, 8 ft. wide, course northerly, and ascend
300.0'	Shaft 40 ft. S. of line
315.0'	Stone wall bears N66° W. and S66° E.
416.0'	Stone wall bears N23° E. and S23° W.
450.0'	Adobe house, bears S. 30 ft.
490.0'	Stone wall, bears N56½° W. and S56½° E.
513.0'	Stone wall, bears N34° E. and S34° W.

# Exterior boundaries of

Feet	
550.0	Stone cabin, bears S. 30° E.
560.0	Top of ascent, bears N. & S.
600.0	Stone Cabin on line
644.0	Stone wall, bears N 7½° E. and S 7½° W.
650.0	Trail, bears N 7½° E. <sup>2</sup> / <sub>3</sub> of S. 7½° W.
660.0	Trail, bears N. N. W. and S. S. E.
670.0	Descend to
690.0	Gulch 10 ft. wide, course Northerly
700.0	Ascend ridge
856.0	Trail, bears N. Easterly and S. Westerly
1000.0	Top, bears N. E. and S. W.
1050.0	Ascend higher
1116.0	Top of ridge, bears N. and S. and descend
1360.0	Foot of <sup>steepest</sup> descent, and begin to descend gradually N.



the townsite of Nogales - Continued

Feet  
 1678.0 Gulch, 10 ft. wide, course  
 Northerly and ascend  
 1800.7 Set a sandstone  
 10 x 10 x 30 ins., with  
 marked stone, 20 ins.  
 in the ground, for  
 S.E. cor. of the town-  
 site of Nogales, marked  
 "N. T. S. S.E. cor." on  
 N.W. face; and raise  
 a mound of stone  
 3 ft. base, 3 ft. high,  
 N.W. of cor. Pits im-  
 practicable. - An  
 oak, 26 ins. diam., bears  
 $N. 70^{\circ} W.$ , 78 ft. dist., marked  
 "N. T. S. S.E. Cor. B. T."  
 An oak 26 ins. diam., bears  
 $N. 45^{\circ} 50' W.$ , 106 ft. dist.,

# Exterior boundaries of

Feet

marked N. T. S. S. E. Cor. B. T.  
An oak 15 ins. diam., bears  
 $N 61^{\circ} 50' E$ , 103 ft. dist., marked  
N. T. S. S. E. cor. B. T.

Mean Variation at cor.  $12^{\circ} 15' E$ .

Land mountainous.

Soil stony, worthless

Timber, a few oak trees

Mountainous land 1800.7 ft.  
November, 11, 1897.

November 12: At 9<sup>h</sup> 35<sup>m</sup>

a. m. l. m. t., I set off  $31^{\circ} 20' N$ .

on lat. arc, and  $17^{\circ} 53' S$ .

on decl. arc, and de-

termine a true meridian,

at the S. E. cor. of

Nogales townsite.

Thence I run

North on a true meridian

Over mountainous land

## the townsite of Nogales-Continued

Feet	
43.0'	Trail, bears N.E. and S.W.
50.0'	Descend along W. bank of gulch
145.0'	Gulch, 20 ft. wide, course N.W.
200.0'	Same gulch, 40 ft. wide, course N.E. and ascend spur
250.0'	Top of spur, bears E., and descend
300.0'	Foot of spur
305.0'	Trail, bears N.W. and S.E.
342.0'	Same gulch, 20 ft. wide, course N.W.
350.0'	Ascend steep ridge
400.0'	Ravine, 5 ft. wide, course S.W.
445.0'	Trail, bears N.W. $\frac{2}{3}$ of S.E.
452.0'	Trail, bears N.W. and S.E.
450.0'	Shaft, bears E. 40 ft.
718.0'	Top of ridge, bears E. $\frac{2}{3}$ of W.



## Exterior boundaries of

Feet	
	and descend
1195.0'	Telephone line, bears $N77\frac{1}{2}^{\circ}E$ and $S77\frac{1}{2}^{\circ}W$ .
1255.0'	Foot of descent and gulch, 6 ft. wide, course Westery, thence N. Westery
1275.0'	Trail, bears E. and W.
1290.0'	Ascend ridge
1600.0'	Top of ridge, bears $E. \frac{2}{3}W$ and begin to descend
1619.0'	Wire fence bears $N59^{\circ}W$ and $S59^{\circ}E$ .
2076.0'	Barn, bears E. 100 ft.
2257.0'	House, bears E. 150 ft.
2323.0'	Wire fence, bears $N77^{\circ}W$ , and $S77^{\circ}E$ . and enter orchard
2400.0'	Chicken house, bears E. 60 ft.
2456.0'	Road, bears N.W. and N.E.
2486.0'	Adobe houses, bear $N. 250 \frac{1}{2}^{\circ} E$

the townsite of Nogales - Continued

Feet

2512.0' Intersect John  
Deesarts house, bearing  
N. Easterly and S. Westerly.

— At this point I  
offset 6.80 ft. thence  
North 100 ft. thence  
West 80 ft. back to  
the true line (2612 ft.)

2630.0' Foot of descent

2635.0' Road, bears N.W. and S.E.

2640.0' Set a sand stone  
<sup>with marked stone</sup>  
10 x 10 x 30 ins. 20 ins.

in the ground for the  
E. Cent. Mon. of the  
Nogales townsite,  
marked "N. T. S. E. Cent"  
on W. face. Owing to  
the road S. of cor. I  
do not dig any pits.  
Mean Variation at cor.  $12^{\circ} 15' E.$

# Exterior boundaries of

Feet

From the "E. Center Mon."

A windmill, bears  
N45°E, 46 ft.

A windmill, bears N29°E  
142 ft.

S.W. cor. of <sup>or</sup> Heru's house,  
bears N24°25'E, 309.8 ft.

N.W. cor. of Chickenhouse,  
bears N53<sup>1</sup>/<sub>4</sub>°E, 143 ft.

N.E. cor. of John Dessart's  
house, bears S6°45'E, 79.2 ft.

Water tank, bears N16°E,  
160 ft.

S.W. cor. of privy, bears  
N33<sup>1</sup>/<sub>2</sub>°E, 293 ft.

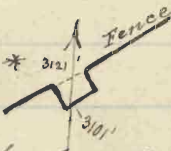
A small house, bears  
N43<sup>1</sup>/<sub>2</sub>°E, 156<sup>1</sup>/<sub>2</sub> ft.

A tank 15 ft. diam.,  
bears S61<sup>1</sup>/<sub>4</sub>°E, 388<sup>1</sup>/<sub>2</sub> ft.



the low site of Nogales - Continued

Feet

- S. W. cor. of Leimets house, bears  $N 24^{\circ} W$ , 185 ft.
- 2700.0 I offset, West 60 ft., thence N. 150 ft.
- 2850.0 Offset East 60 ft. back to true line
- 3036.0 Wire fence, bears N. N.  $\frac{3}{4}$  of E
- 3101.0 Iron tube fence, bears  $N 44^{\circ} E$  and  $S 44^{\circ} W$ , and leave orchard
- 3121.0 \* Line of fence,  bears N.  $44^{\circ} E$  and S.  $44^{\circ} W$ .
- 3131.0 Road from Nogales to Calabasas, bears N. E. and S. W.
- 3216.0 Telegraph line, bears  $N 43\frac{1}{2}^{\circ} E$  and  $S 43\frac{1}{2}^{\circ} W$ .
- 3268.0 Middle of single track of New Mexico and Arizona Railroad, bears  $N 43\frac{1}{2}^{\circ} E$   $\frac{2}{3}$  of  $N 43\frac{1}{2}^{\circ} W$

## Exterior boundaries of

Feet

- 3361.0 Enter Nogales wash, course N.E.
- 3387.0 Leave Nogales wash, course N.E.
- 3405.0 From this point S.E.  
 cor. of Ellis's house bears  
 $S 79\frac{1}{2}^{\circ} W$ , 233.8 ft  
 Windmill, bears  
 $S 86\frac{3}{4}^{\circ} W$ , 282 ft.  
 S.E. cor. of small stone  
 house, bears  $N 47\frac{1}{2}^{\circ} W$ , 429 ft.
- 3470.0 Fence posts in line,  
 bear  $N 56^{\circ} E$  and  $S 56^{\circ} W$ .
- 3550.0 Road from Nogales to  
 Calabasas, bears  $N. E. \frac{2}{3}$  of  $S. W.$
- 3588.0 Wire fence, bears  $N 43^{\circ} E. \frac{2}{3}$  of  $N 32^{\circ} W$   
 and enter orchard
- 4203.0 Leave orchard and ascend
- 4272.0 Wire fence, bears  $N 51\frac{1}{2}^{\circ} W \frac{2}{3}$  of  $S 55^{\circ} E$
- 4329.0 Line of post, bear N. Westerly  
 and S. Easterly.

the townsite of Nogales - Continued

Feet	
4384.0'	Trail, bears N. W. and S. E.
4385.0'	Top of ridge, bears E. $\frac{3}{4}$ W. and descend
4432.0'	Trail, bears N. N. W. $\frac{2}{3}$ and S. S. E.
4490.0'	Foot of descent
4505.0'	Ascend
4585.0'	Trail, bears E. and W., and top of ascent; bears E. and W., and descend
4655.0'	Foot of descent; and enter level land
5280.0'	Set a sand stone 10 x 10 x 30 ins. with marked stone 20 ins. in the ground for N. E. cor. of the Nogales townsite, marked "N. T. S. N. E. Cor." on



# Exterior boundaries of

Feet

S. W. face. dig pits  $22 \times 24 \times 12$   
 W. and S of stone, 8  
 lks. dist., and raise  
 a mound of earth 4 ft.  
 base, 2 ft. high, S. W. of  
 cor., from which  
 An oak, 30 ins. diam. bears  
 $S 4 \frac{1}{2}^{\circ} E$ , 615 ft. dist.  
 marked "N. T. S. N. E. Cor." B. T.  
 An oak, 30 ins. diam.,  
 bears  $S 25 \frac{1}{4}^{\circ} W$ , 484 ft.  
 dist. marked "N. T. S. N. E. Cor." B. T.  
 Mean Variation at Cor.  $12^{\circ} 15' E$ .  
 Pan of mountains, rolling  
 and level  
 Soil, loam and stony,  
 1<sup>st</sup>, 2<sup>nd</sup> and 4<sup>th</sup> rate  
 Timber, a few oak  
 trees, also some fruit

the townsite of Nogales - Continued

Feet

trees; under growth  
oak.

Mountainous land 2630 ft.

November 12, 1897

November 13: At 9<sup>h</sup> 10<sup>m</sup>

A. M., l. m. t., I set  
off 31° 20' N. on the  
lat. arc; 18° 9' S. on  
decl. arc; and determine  
a true meridian with  
the solar, at the  
S. W. cor. of Nogales  
townsite, as heretofore  
described.

Thence I run

North on a true meridian  
Over level land

450.0' Ascend W. Slope of ridge

## Exterior boundaries of

Feet	
638.0'	Wire fence bears $N56^{\circ}W. \frac{2}{3}$ of $N56^{\circ}E$
640.0'	Top of slope, and descend
700.0'	Foot of descent
706.0'	Ascend along W. Slope of ridge
825.0'	Top of Slope bears W., and descend
925.0'	Foot of descent, and ascend W. Slope of ridge
1375.0'	Trail, bears N.W. and S.E., and top of ridge bears $N.W. \frac{2}{3}$ of S.E.
1550.0'	Trail, bears N.E. and S.W.
1625.0'	Ascend gradually
1850.0'	Top, bears E. and W., and descend to
2189.0'	Gulch, 6 ft. wide, course N.E.
2200.0'	Ascend
2575.0'	Trail, bears N.W. and S.E.



the townsite of Nogales - Continued

2600.0' Top of ascent; bears  
N.E. and S.W.

2640.0' Set a sandstone,  
10x10x30 ins., with  
marked stone 20 ins.  
in the ground for  
West center Mon. of  
Nogales townsite,  
marked "N. T. S. W. Cent."  
on E. face; and raise  
a mound of stone,  
3 ft. base, 3 ft. high,  
E. of cor. - Cuts im-  
practicable. - An  
Oak, 6 ins. diam.,  
bears  $S 70^{\circ} 10' W$ , 4 1/2 ft.  
dist., marked "N. T. S.  
W. Cent. B. T."  
An oak 6 ins. diam.,

# Exterior boundaries of

Feet

- bears  $N 89 \frac{3}{4}^{\circ} W$ , 55 ft.  
 dist. marked N. T. S. W. Cont. B. S.  
 Mean variation at cor.  $12^{\circ} 15' E$ .
- 2700.0 Begin to descend
- 2965.0 Foot of descent, bears  
 N. W. and S. E.
- 3205.0 Enter dry wash, course E
- 3290.0 Leave dry wash, course E
- 3400.0 Road, bears N. Easterly  
 and S. Westerly
- 3445.0 Ascend
- 3427.0 Ravine, 5 ft. wide, course N. E.
- 3645.0 Top of mesa, bears E.  $\frac{2}{3}$  of W.
- 3780.0 Descend to
- 3820.0 Gulch, 6 ft. wide, course N. E.,  
 and ascend
- 3860.0 Top, bears N. W. and S. E.
- 4047.0 Descend
- 4120.0 Foot of descent and  
 enter draw, course N. E.

the townsite of Nogales - Continued

- | Feet    |  |
|---------|--|
| 4245.0' | Trail, bears N.E. $\frac{2}{3}$ of S.W.                          |
| 4315.0' | Dry wash, 10 fks. wide,<br>course Easterly                       |
| 4470.0' | Trail, bears E. and W.,<br>leave drain, and ascend               |
| 4500.0' | Top of low spur, bears S.E.,<br>and descend                      |
| 4585.0' | Foot of descent, and<br>trail, bears N.W. and S.E.<br>and ascend |
| 4795.0' | Top of spur, bears S.E.<br>and descend                           |
| 4850.0' | Foot of spur.  |
| 4897.0' | Dry wash, 3 ft. wide,<br>course S. E.                            |
| 4950.0' | Ascend E. Slope of<br>ridge, bears N. and S.                     |
| 5280.0' | Set a sandstone,<br>10 x 10 x 30 ins., 20 ins. in                |



# Exterior boundaries of

Feet

the ground for N. W.  
cor. of Nogales town-  
site, marked "N. T. S.  
N. W. Cor." on S. E. face,  
and raise a mound  
of stone 3 ft. base,  
3 ft. high, S. E. of cor.;  
Pits impracticable.

An oak 18 ins. diam.,  
bears  $S 84^{\circ} E$ , 226 ft.  
dist. marked "N. T. S.  
N. W. Cor." B. T., No  
other trees near.

Mean Variation at cor.  
is  $12^{\circ} 15' E$ .

Land, rolling, level  
and mountainous.  
Soil, gravelly loam  
and stony;  $2^{\text{nd}} \frac{2}{3}$  of  $4^{\text{th}}$  rate

## the townsite of Nogales - Continued

Feet

Timber, a few scattering  
oak trees.  
Mountainous land 2845 ft  
November 13, 1897

November 15: At 9<sup>h</sup> 45<sup>m</sup>  
A. M., L. M. T., I set  
off  $31^{\circ}21' N.$  on the lat.  
arc,  $18^{\circ}40' S.$  on the  
decl. arc, and determine  
a true meridian, with  
the solar, at the N. W. Cor.  
of the Nogales townsite.  
Thence I run

$N 89^{\circ}35' E.$  on a random  
line along the North  
boundary of the  
Nogales townsite

2640.0' Set temp. cor. for  
the N. Center

5280.0' Intersect the East

## Exterior boundaries of

Feet

boundary at the  
N. E. cor., as here-  
before described.

Thence I run  
S 89° 35' W., on a  
true line

Over level land

6200' Dry wash, 10 ft. wide,  
course N. E.

1620.0' Enter same wash, course  
S. E.

1675.0' Leave same wash, course  
S. E.

1995.0' Ascend low spur

2038.0' Top of low spur, and  
intersect stone house,  
which bears N. and S.

2057.0' Leave stone house

2065.0' Descend



the townsite of Nogales - Continued

- Feet
- 2095.0' Foot of descent
- 2200.0' Stone house, bears S., 40 ft
- 2258.0' Ascend N. slope of spur, 40 ft. high
- 2350.0' Top of spur, bears N. and descend
- 2450.0' Foot of spur, bears N.W. thence along S. edge of dry wash
- 2640.0' Set a sand stone  $10 \times 10 \times 30$  ins. with marked stone, 20 ins. in the ground for N. Center mon., marked "N. T. S. M. Cent." on S. face, and raise a mound of stone, 3 ft. base,  $2\frac{1}{2}$  ft. high, S. of cor.

Exterior boundaries of  
the townsite of Nogales - Continued

Feet

Pits impracticable

An oak, 24 ins. diam.,  
bears  $N 76 \frac{1}{4}^{\circ} E$ , 332 ft.  
dist. marked N. T. S.  
N. Cent. B. T.

An oak, 17 ins. diam.,  
bears  $S 87 \frac{1}{2}^{\circ} E$ , 194  $\frac{1}{2}$  ft.  
dist. marked N. T. S.  
S. N. Cent. B. T.

An oak, 24 ins. diam.,  
bears  $S 22^{\circ} W$ , 607 ft.  
dist. marked N. T. S.  
N. Cent. B. T.

An oak, 32 ins. diam.,  
bears  $N 40 \frac{3}{4}^{\circ} W$ , 316 ft.  
dist. marked N. T. S.  
N. Cent. B. T.

Rock in place, 12 ft  
high, 10 ft. wide and