

Preliminary Survey

1745

Field Notes

OF THE SURVEY OF

The Eastern Bound-
aries of the Private
Land Claim, Tumasa-
coni and San Calabaza,
Pinal County,

~~Gila and Salt River Base and Meridian~~

ARIZONA.

By John L. Hearn, D. S.

Under contract dated Jan. 7, 1880.

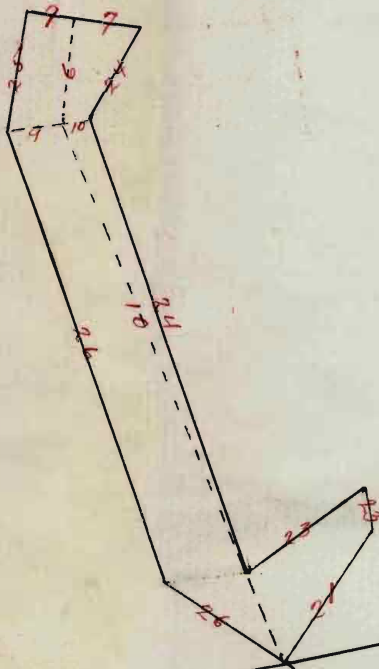
Survey commenced Feb. 28, 1880.

Survey completed March 15, 1880.

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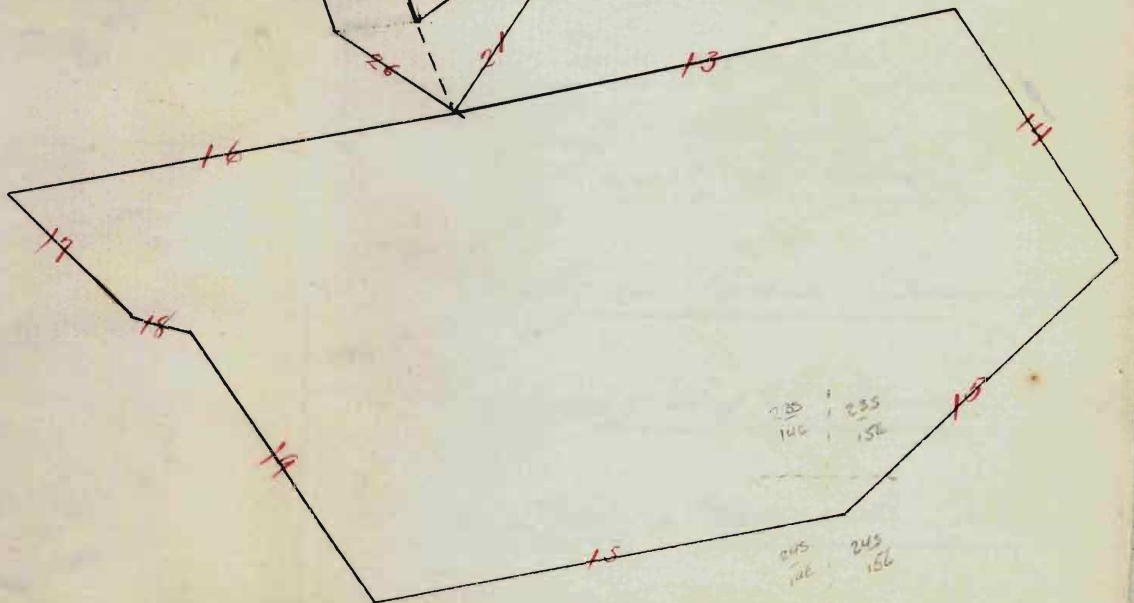
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N.
Field Notes
of
The Preliminary Survey of
The Exterior Boundaries
of
The Tumacacori ^W
Las Calabazas Private
Land Claim.

Situate in Pima County, Arizona

Surveyed Feb'y 28 - March 15, 1888

By Jas. L. Harris, U. S. Dep. Sur.

Under Contract of Dec'y 7, 1886

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BOOK 1745

Preliminary Oaths of Assistants.

We, Everisto Sanz
 and F. A. Curtiss
 do solemnly swear that we will faithfully execute
 the duties of Chain Carriers; that we will level the
 chain upon uneven ground, and plumb the tally
 pins, whether by sticking or dropping the same;
 that we will report the true distance to all notable
 objects, and the true length of all lines that we as-
 sist in measuring, to the best of our skill and
 ability.

Everisto Sanz
F. A. Curtiss

Sworn to and subscribed before me, this 25th
 day of February, 1884

W. L. Harris
 W. Dep. Surveyor

We, Appolonis Garcia &
J. C. Franca

do solemnly swear that we will well and truly per-
form the duties of Aseman and
Flagman respectively
according to instructions given us, and to the best
of our skill and ability.

Witness Jno. L. Harris - Appolonis^{his} Garcia_{mine}
J. C. Franca

Sworn to and subscribed before me this 25th
day of February, 1880.

Jno. L. Harris
U. S. Dep. Surgeon.

Tumacacori & Calabazas Private
Land Claim, Pima County Arizona

Chs. Survey commenced Febry 28, 1880.

Preface.

In preface to the field notes of the preliminary survey of the Exterior Lines of the Tumacacori and ^{Las} Calabazas Private Land Claim under my contract with the Surveyor General of Arizona dated January 7, 1880, I would say:

I was promptly in the field on Febry 1, 1880, but after several days reconnoissance and running trial lines I became of opinion that my information in the premises ^{was either erroneous or insufficient} and I was compelled to relinquish the work until supplied with farther instructions and information.

Tumacacori & Calabazas Private
Land Claim, Pima County, Arizona

No. In returning to the field on Febry
28. I find the sense of the
information and instructions
furnished me, to the following
effect:

The Tumacacori and
Las Calabazas Private Land Claim
consists of two parts - a
Fundo Legal and an Estancia.

The initial point of the
Fundo Legal was "the Cross in
the burying ground of the old
mission of Tumacacori," and
the claim was to extend thence
along the Santa Cruz valley
to the northward 50 cordellos,
and to the southward 332
cordellos, and its lateral ex-
tent was to be sufficient
to give, with its linear extent,

Sumacacori & Calabazas Private
Land Claim, Pima County Arizona

On the 4 sites called for.

The Estancia adjoined the Fundo Legal on the South with a common boundary. (I wish to call especial attention to this fact, because taken in connection with the limits & bounds of the Estancia and the requirements of the Fundo Legal, it explains the irregularity in shape of the ^{claim}.) The Estancia was to be limited by bounds, as follows:

"In the direction of the East "to a mesa" in the cañon of the Sonoita"

"In the direction of the West, beyond the large marsh, or cienega grande, of the Patero."

"On the side of the South the lands are bounded by the Rancho of Buena Vista, and monuments

Sumacacori Calabazas Private
Land Claim Pima County Arizona

The in that vicinity are placed above
the Yerba Buena.

Upon such understanding
and premises the following
survey is based; and while
I shall not burden the notes
with unnecessary description
of trial or preliminary lines, it
should be understood ^{that} the courses
of the Exterior boundaries were
run and extent given upon
information carefully gained
from trial lines and study
of instructions.

I use a vara of 33 in-
ches as unit of measure.

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 Tumacacori & Calabugas Private
 Land Claim, Pima County, Arizona

No. The Fundo Legal.

Being then on the premises and
 making diligent inquiry, I
 locate the entirely obliterated
 burying ground of Tumaca-
 cori on the W. side of the
 church and immediately
 adjoining it. The church is
 on the W. side of the valley.
 There is no cross and no
 living remembrance of its
 locality in said ground.
 So, selecting the center of the
 evident flat of ground,
 I establish the initial point
 of the survey by setting a post
 4 ft. long, 4 in. sq. d. in mound
 of stones and mark it T. C.
 P. L. C. F. L. I. P. T. Thence—

Tumacacori & Culabagas Pecos
Land Claim, Pima County, Arizona

Chs. The S.W. cor. of the ancient
church br. S. $54\frac{1}{2}^{\circ}$ E. 120 lvs. dist.
An old mound of stones on a
hill br. S. $55\frac{1}{2}^{\circ}$ W. 23.30 chs. dist.

The $\frac{1}{4}$ sec. cor. between secs.
30 & 31, of Twp. 21 S. R. 13 E.
of the Gila and Salt River
Meridian, Arizona, br. S. 74°
 $05'$ W. 17.26 chs. dist.

From this Initial cor. I
run as follows:

North

var. $13^{\circ}35'$ E.

As per Burt Solar Compass
104.17 To a point where after
searching in vain for a
mound of stones I set a
post 4 ft. long. 4 in. sq. d.
in mound of stones, and

Tumacacori & Calabazas Private
Land Claim, Pima County, Arizona

No. mark it P. C. P. L. C. 1. F. L.
February 28, 1880.

From Post 1. Drive
West

var. $130^{\circ}39'$ E.

As per Burt's Solar Compass
9.45 Leave valley, tr. N. & S., run
on rolling hills.

77.48 Set a post, 4 ft. long, 4 in. sqd.,
in mound of stones and marked
P. C. P. L. C. F. L. 11, for N.
W. cor. of the Fundo Legal.

Returning to Post 1. Drive thence
East

var. $130^{\circ}39'$ E.

9.20 Santa Cruz river, 30 las. wide, flow N.
11.00 Acquia tr. N. and enter Lowe's

Tumacacori & Calabazas Private
Land Claim, Pima County, Arizona

Rs.	cultivated field br. N. & S.
35.48	Low's House br. S. 8. 61 chs. dist.
43.00	Leave cultivated ground
48.70	Main Road br. N. & S.
92.00	Leave valley br. N. & S., run on rolling hills
156.00	Enter ranche br. N. of W.
161.02	To a point in ranche, where I set

a post, marked T. C. P. L. C.
F. L. 111, 4 ft. long. 4 in. sq. in
in mound of stones, for N.E. cor.
of the Fundo Legal.

This gives approximately an
equal width of waste land
on either side of the valley.

Soil rich in valley, poor on
hills. Fine Grass. Much mes-
quite.

Tumacacori & Calabogus Private
Land Claim, Pima County, Arizona.

Rs. Returning now to the Initial post
near the old church of Tumacacori,
Drum
West.

var. $13^{\circ}35'$ East

As per Burt's Solar Comp.

10.00 Leave valley enter little ravine on N.E.

22.00 Leave same, run on rolling hills.

22.92 Search for mound of stones but
find none.

Returning to Initial Post, Drum
East

var. $13^{\circ}35'$ East

And after offsetting around old
church, at

14.58 Search for mound of stones but
find none. So I continue on same
line, to see if I can find any-

Tumacacori & Calaboga Private
Land Claim, Pima County, Arizona

- Th. thing "at the foot of the hills",
among "the mesquite groves"
on the east side of the valley.
 - 25.14 Santa Cruz river, 25 km wide flow
N. and W. of N.
 - 37.05 Acequia br. N. and enter cul-
tivated ground, and Keen's
House br. S. about 500 km. dist.
 - 53.55 Leave cultivated ground br.
W. of N. and E. of S.
 - 54.15 Main Road br. N. and S.
 - 65.00 Leave valley, run on rolling hills
br. N. & S. But can find no
mound of stones.
- March 1, 1888.

Going back now to the Initial
Post at the old church of
Tumacacori I run thence
S. 29° E.

Tumacacori & Calabazas Private
Land Claim, Pima County, Arizona

No.

var. 13°40' East

As per Burt's Solar Compass

The line running parallel with
the course of the valley along
its W. side - and at

691.67 Search for mound, but find
none, and as this is the linear
extent of the Fundo Legal
to the Southward, I set a
post, 4 ft. long, 4 in. sq. d.
in mound of earth, and
mark it T. C. P. L. C. F. L.
E. and C., as the center com-
mon monument between
the Fundo Legal and the
Estancia.

A line run laterally through
this post will be the com-
mon boundary between the
Fundo Legal and the

Tomacacori & Calabazas Private
Land Claim, Pima County, Arizona.

As. Estancia, and from a study
of the topography of the coun-
try and running of trial lines
I find the N. boundary of
the Estancia is the arbitrary
line and will govern the
form of the Fundo Legal.
I am therefore compelled to
survey the Estancia from this
common center post before
proceeding further with
the lines of the Fundo Legal.

March 2. 1880

Tumacacori & Calabazas Private
Land Claim, Pima County, Arizona

No. The Estancia.

From the common center post just
last established between the
Fundo Legal and the Estancia
I run

N. 43° E.

var. $13^{\circ} 48'$ East

As per Bart's Solar Compass
Running up the Sonoita valley
and at

213.00 Enter the cañon of the Sonoita
immediately S. of its mouth or
termination, br. N.W. and S.E.

213.58 Sonoita creek, 25 ft. wide, flows NW.

231.50 On a point of mesa marking down
into the cañon of the Sonoita from
its E. side. Search for mound
but find none. So I set a
post 4 ft. long, 4 in. sq. in

Sumacacori & Culabazas Private
Land Claim, Pima County, Arizona

Thence mound of stones and marked
T. C. P. L. C. E. N. E. for the
N. E. cor. of the Estancia.
March 3, 1888.

Thence Drive, at right angles
S. 47° E.

var. $13^{\circ}45'$ E.

As per Burt's Solar Compass
Along E. side of Cañon -

- 82.00 Run down into bed of cañon to N.E. + W.
- 85.50 Sonoita creek 25 lbs. wide flows W.
- 86.10 Leave cañon run up rocky bluff
on rolling and broken ground.
- 120.50 Sonoita Road to N.E. side
- 137.60 Run on W. point of high black hill.
- 808.75 To a point which I establish as
the S. E. cor. of the Estancia.
Set a post, 4 ft. long, 4 in. sq. d.,
in mound of stones and

Yumacacori & Calabazas Private
Land Claim, Pima County, Arizona

As marked T. C. P. L. C. E. S. E.
Land along E. boundary - rolling
and barren. Fine Grass,
But few trees.

March 5, 1880

From the S. E. cor. of the Estancia
Issac at right angles:
S. 43° W.

var. 13° $40'$ E.

As per Burt's Solar Compass.

168.94 Run into Santa Cruz valley br. N.W. & S.E.

171.05 Santa Cruz river, 40 lbs. wide, flows N.W.

175.22 Main Road br. N.W. & S.E.

175.44 Leave valley run up a high hill.

197.44 Top of hill and intersect a
large and very old mound of
stones shown me as the S. limit
of the claim in the Santa Cruz
valley. There is no mistaking

Tumacacori & Calabogas Private
Land Claim, Pima County Arizona

No. This as an old mound, and it
is clearly distinguishable from
the numerous desisideros fre-
quently met with on hills.

I set here a post temporarily.
Land mostly hilly. Fine grass
But few trees.

March 6, 1886.

Returning now to the common
center post between the Fondo
Legal and the Estancia I
run thence
S. 43° W.

var. $13^{\circ} 48'$ E.

231.50 As per Burt's Solar Compass
To a point where I establish
the N.W. cor. of the Estancia
where I set a post 4 ft. long
4 in. sq. in. mound of stones

Tomacacari & Calabazas Private
Land Claim, Pima County, Arizona

Chs and marked T. C. P. L. C. E.
N. W.

March 8. 1880.

From the N. W. cor. of the Estancia
I run at right angles
S. 47° E.

var. $13^{\circ}42'$ East

As per Burt's Solar Compass

- 16.00 Enter ravine br. N.E.
27.25 Leave same br. N.E.
300.00 A line run E. from this point
would strike the N. center of the
Cueniga Grande in about 35.00 chs.
319.00 Ravine br. N.E.
344.00 Leave same.
506.00 To a point where I establish
the S. W. cor. of the Estancia.
Set a post, 4 ft. long, 4 in.
sqd. in mound of stones

Tomacacosi & Culabagas Private
Land Claim, Pima County, Arizona

Chs. and marked T. C. P. L. C. E.
S. W.

Land rolling, Fine Grass
Oak timber.

March 9, 1880.

From the S. W. cor. of the Es-
tancia Drive at right angles
N. 48° E.

var. $13^{\circ} 39'$ E.

As per Burt's Solar Compass

12.39 Enter Potrero valley br. N. & N. W.

18.39 Potrero road br. N. W.

19.39 To an old mound of stones
which I believe to be an orig-
inal mound on the claim
and designed to mark the
S. limit of the claim in the
Potrero valley. I set here
a post 4 ft long, 4 in. sq d.

Tomacacori & Calabazas Private
Land Claim, Pima County, Arizona

As in mound of earth, alongside the
old mound, and marked T. C.
P. L. C. A. E.

Believing that I have now
joined the claim on the
original mounds marking
its southern limit in the
Santa Cruz and Patero valleys,
I make the necessary cal-
culations, and from the
post last established at the
old mound in the Patero
Inn

S. $86^{\circ} 34'$ E.

W. $13^{\circ} 39'$ E.

- 8.25 Patero creek br. N. 25 br. wide
40.00 Leave valley, run on rolling hills.
390.21 My flag is just to S. of the
old mound on the hill on N.

Tumacacori & Calabazas Private
Land Claim, Pima County, Arizona.

Pos. border of the Santa Cruz valley,
but the chain is 110 lns. short.
This has been lost in the broken
and difficult ground between
the Paturo & Santa Cruz. So I
close on the mound and set
a post 4 ft. long, 4 in. sq. d.,
in mound of stones and
marked T. C. P. L. C. E. A.

From which

The Cor. to Tpo. $23^{\circ} 24' S.$ Rgs.
 $14^{\circ} 15' E.$ Gila & Salt River
Meridian, Arizona, brs. $N. 27^{\circ} 16' W.$
92.16 chs. dist.

The House at Yerba Buena
Ranch brs. $N. 37^{\circ} 22' W.$ 106.14 chs. dist.
Land mostly rolling hills. Fine grass. Some
oak timber. March 10. 1880.
Area of land enclosed in the
Estancia = $34,644.40$ acres

Tumacacori & Calabazas Private
Land Claim, Pima County, Arizona

Chs. Fundo Legal.

Now return to the common
center post between the Fundo
Legal and the Estancia, and
run thence
N. 43° E.

Var. 13° 48' East

As per Buett's Solar Compass

- | | |
|--------|---|
| 18.75 | Santa Cruz river, 50 hrs. wide, br. N. W. |
| 24.75 | S. E. cor. of Building at New Calabazas
br. N. 23½° E, 5.59 chs. dist. |
| 36.27 | Main Road down the Santa Cruz
br. N. W. |
| 71.20 | Artesian Well br. N. 50 hrs. dist.
And run into Sonoita Valley br. S. W. |
| 130.85 | Sonoita Road br. S. of W. |
| 132.00 | Sonoita Creek br. S. W. 40 hrs. wide. |
| 161.00 | do. do. " E. of S. ^{and St. pt.} 50 " " |
| 173.48 | do. do. " S. W. 50 |

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Tomacacori & Calabazas Private
Land Claim, Pima County, Arizona

No Continued

201.00 House br. N. 10° W., about 400 l. dist.

217.50 To a point where I set a post
4 ft. long, 4 in. sq. in. mound
of earth and named S. C.
P. L. C. A. L. IV., for the S. E.
cor. of the Fundo Legal.
This cor. stands in the mouth
of the Sonoita cañon. The
reason for going to this extent
eastward is because the
Fundo Legal included to its
linear extent "all the agri-
cultural land in the Santa
Cruz valley and its neigh-
borhood," and there is agri-
cultural land on the N. of
this line to its termination.

Tumacacori & Calabazas Presale
Land Claim, Pima County, Arizona

Thence From the S.E. cor. of the Frondo
Legal, as just set, Drive
N. $26^{\circ}12'$ W.

var. $13^{\circ}45'$ E.

As per Buets Solar compass

4.00 Rise on mesa to E. etc.

14.00 Set a post, 4 ft. long, 4 in. sq. d.
in mound of stones and
marked T. C. P. L. C. F. L. A.

Thence Drive

S. 53° W.

var. $13^{\circ}46'$ East

As per Buets Solar Compass

95.38 Along the S. base of the San Cay-
etano mountains, to a point
where I set a post, 4 ft. long
4 in. sq. d. in mound of earth
and marked T. C. P. L. C. F. L. A.

March 12, 1880

Tomacacori & Calabazas Private
Land Claim, Pima County Arizona

Thence Drum

N. 26° 12' W.

var. 13° 48' E.

As per Burt Solar Compass

485.46 Enter wideravine br. SW

502.83 Leave same.

546.33 To a point where I set a post
4 ft. long. 4 in. sq. d. in ground
of stones and marked T. C.

P. L. C. F. L. et.

Land rolling ridges br. SW Fine
Grass. No timber but a few mesquite

March 13, 1880.

Thence Drum

North

var. 13° 38' E.

As per Burt Solar Compass

2.00 Road br. S. W. and N. of E.

104.17 I am nearly in line with

Sumacacosi & Calabazas Private
Land Claim, Pima County, Arizona

To Post 111, - the N.E. cor. of the Fundo
Legal, but 54 lvs. short, having
lost this on the bad ground.
So I close on Post 111.
Land rolling ridges. Grass.
Some Mesquite trees.
March 13. 1880.

Going now to Post 11, or the N.W.
cor. of the Fundo Legal, from there
South

var. $127^{\circ}41' E$.

As per Burt's Solar Compass

104.17

To a point where I set a post
4 ft. long, 4 in. sq'd. in round
of stones, and marked
J. C. P. L. C. F. L. A.

Land rolling & broken.
Grass. No timber.

Sumacacori & Calabazas Private
Land Claim, Pima County, Arizona

As. Thence from
S. $25^{\circ}37'$ E.

var. $14^{\circ}42'$ E.

As per Buitt's Solar Compass

705.00 Enter ravine to N.E.

718.00 Leave same.

767.64 To point of intersection with
the N. boundary of the Estan-
cia, where I set a post, 4
ft long, 4 in. sq. d. in mound
of stones and marked S. C.
P. L. C. F. L. V. for S.W. cor
of the Fundo Legal
Land rolling hills. Fine grass
Scattering Mesquite & Palo Verde.

From this S.W. cor of the Fundo Legal
N. 43° E.

var. $13^{\circ}48'$ East

As per Buitt's Solar Compass

Tumacacori & Calabazas Private
 Land Claim. Pima County, Arizona

Rs. Continued

8.00 Run into ravine to N.E.

55.00 Leave same on its S. side, and run
 over points of high mesa, making to the N.

89.00 Enter valley of the Santa Cruz to N.W.

120.00 The Flag is immediately on the N.
 of the Common Center post between
 the Fundo Legal and the Estan-

cia; the chain is 28 lns. short.
 Have lost this in running and
 I close on the said post.

Thus enclosing the Fundo
 Legal with an area of
 17,363.55 Acres

March 15. 1880.

General Description

The Tumacacori & Calabazas Private Land Claim, consisting of two parts - a Fundo Legal or Farm, on the N₁, and an Estancia or Stock Ranch, on the S₁ - covers a vast tract of land in the Santa Cruz and Potrero valleys, in the southern part of Pima County, Arizona, nearly due S. from Tucson, commencing about 3 miles S. of Tubac and extending to the S₁ to within about 2½ miles of the Sonora line. In the Potrero valley the claim runs a little over 2½ miles S. of Kitchin's Ranch. In the Santa Cruz valley it extends about 1¼ miles S. of the Yerba Buena

Ranch. In the Sonora it laps on the end of the Cañon.

On the N. the claim terminates a little N. of the House now occupied by Lowe, the E. W. North boundary cutting his cultivated ground in about the center. Any one familiar with the localities will understand this description.

The valley land is rich and, mostly, finely watered. Cottonwood, Oak and mesquite abound.

In the hills between the Pateros and the Santa Cruz the land is mineral, and there are several mining cuts of some extent. As to the value of the land

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as mineral I cannot give
an opinion.

I do not think there is
any mineral elsewhere on
the ^{tract} claim.

There are some half
dozen or more ranches under
considerable state of cul-
tivation included in the
claim.

I found two mounds,
both on the S. end of the
claim, and after careful
consideration I believe them
to be original. The mound
on the hill to the S. W. of
Pumacacori church, and
sighted to from the Initial
Post, is one of several on
the same hill, and I am

of opinion they were sites
of holy crosses common
at all these old mission
on a neighboring hill and
resorted to for prayer and
penance.

John L. Harris
M.S. Dep. Savage

List of Names.

A List of the Names of Individuals employed
to assist in running, measuring, or marking the
lines and corners described in the foregoing Field
Notes of the survey of *The Extension*
of the Tomacacasi and So
Calabazas Private Land
Claim, situate in Pima
County, Arizona

Showing the respective capacities in which they
acted.

Evarista Luis Chainman.

A. A. Curtis Chainman,

Apollonio Garcia Axeman.

A. C. Franco Flagman.

Final Oath of Assistants.

We hereby certify that we assisted John
L. Harris U. S. Deputy Surveyor, in
 surveying The Exterior lines of
the Sumacacovi and Cal-
abazas Private Land Claims
situated in Pima County
Arizona

and that said Survey has been in all respects, to
 the best of our knowledge and belief, well and
 faithfully executed, and the boundary monuments
 planted according to the instructions furnished by
 the Surveyor-General.

Evaresto Saing Chainman.

H. A. Curtiss Chainman,

Antonio
Jos. L. Harris Apollonio Garcia Axeman.

J. C. Frances Flagman.

Sworn to and subscribed before me, this 26th
 day of March, 1880.

Jos. L. Harris
 U. S. Dep. Surveyor.

Final Oath of Deputy Surveyor.

I, *John L. Harris* —

U. S. Deputy Surveyor, do solemnly swear that in pursuance of a contract with John Wasson, United States Surveyor-General for Arizona, bearing date the *7^r* day of *January*,

18*72*. I have well, faithfully and truly, in my own proper person, and in strict conformity with the instructions furnished by the Surveyor-General, the Surveying Manual, and the laws of the United States, surveyed all those portions of

The Exterior Lines of the Tomacacore and Calabazas Private Land Claim, situate in Pima County, Arizona

as are represented in the foregoing Field Notes as having been surveyed under my directions; and I do further solemnly swear that all the corners of said surveys have been established and perpetuated in strict accordance with ~~the Surveying Manual and printed instructions, and also in accordance with the additional requirements con-~~

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~~tained in circular instructions from the U. S. Surveyor-General for Arizona, dated September 1, 1873, regarding the establishment of corner boundaries of public surveys, and that the foregoing are the true and original Field Notes of such surveys.~~

John L. Harris

Deputy Surveyor.

Sworn to and subscribed before me, this 26th
day of March, 1880.

John R. Faull

Notary Public.

BOOK 1745



U. S. Surveyor General's Office,
Tucson, Arizona, April 3, 1880

The foregoing Field Notes of the survey of

Preliminary Survey of the Ex-
tensive Boundaries of the Imm-
ense Ant Las Calabazas

Private Landclaim Arima

~~of the Gila and Salt River Base and Meridian, Arizona.~~

executed by John L. Harris,

D. S., under his contract of the 7th day of

January, 1880, having been critically ex-
amined and the necessary corrections and explanations
made, the said Field Notes and the surveys they de-
scribe, are hereby approved.

John Mason

Surveyor General.