

BOOK 1503

1503
Field Notes

OF THE SURVEY OF

Fourth Standard South
- through -

Range 4 East and a portion of
Range 3 East.

BOOK 1503

1503

Gila and Salt River Base and Meridian

ARIZONA.

By *Lewis Wolfley* — D. S.

Under contract dated *Feb. 28th* 1885.

Survey commenced *April 28th* 1886.

Survey completed *May 1st* 1886.

1503

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BOOK 1503

4th Standard Route Through.
Range 4 East, 1
" 3 East (Track) 13

Ret. Dps. 20 & 21 S.

		P	3	E		
31	32	33	34	35	36	
Mexico	21	19	16	14		
6	5	4	3	2	1	

		P	4	E		
31	32	33	34	35	36	
11	9	7	5	3	1	
6	5	4	3	2	1	

1A
Preliminary Oaths of Assistants.

BOOK 1503

We *Jas M. Causton*
and *J. C. Cowles*

do solemnly swear that we will well and faithfully execute the duties of Chain Carriers; that we will level the chain over 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 length 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

H^o Standard S.
Gors R. Meridian
& Retraing of the International
boundary

of the principal base and meridian in the Territory of Arizona.

Jas M Causton Chainman.

J. C. Cowles Chainman.

Subscribed and sworn before me, this *27th*

day of *April* 188*6*

Levin Wolfley
Notary Public

We *Jno. A. Douvan & Jose M. Vidal and Ysobel Vidal*

do solemnly swear that we will well and truly perform the the duties of *Chairmen* and *ground men*

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 *H Standard*

S. - G. S. R. Meridian & *Retracing of the International boundary*

of the principal base and meridian in the Territory of Arizona.

Jno. A. Douvan
Jose M. Vidal
Ysobel Vidal

Subscribed and sworn to before me this *27*

day of *April* 188*6*



Sweet Valley
Notary Public.

1503

BOOK 1503

For description of instrument
see book No. 1.

Before beginning this work
I thoroughly tested my instru-
ment and found it to be
correct.

For the reasons stated in
my letter to the Surveyor General
and in accordance with his
letter of the 19th and approval
thereof by the Hon^l Commissioner
of the 28th of May 1885. This
Contract was delayed and
is only now completed.

May 8th 1886.

4th Standard South

Range 4 East. G. & S. R. M.

Beginning at the Standard
 Cor. to Sp. 20 S. Ranges 4 + 5 E,
 lately established by me
 I run W. on a true line
 on S. Boundary of Sec. 36.
 Va $13^{\circ} 2' E$.

Main

Gradually ascending

4000 Set a post 3 ft long 3 ins sq., with
 marked stone, 12 ins. in the
 ground for $\frac{1}{4}$ Sec. Cor. Mar-
 ket S.E. $\frac{1}{4}$ S. on N. face
 dug pits 18 x 18 x 12 ins E. & W.
 of post $5\frac{1}{2}$ ft. dist., and
 raised a mound of earth
 $1\frac{1}{2}$ ft. high $3\frac{1}{2}$ ft. base a-
 round post

8000 Set a post 4 ft. long 4 ins sq.
 with marked stone, 12 ins

4th Standard South

G. 4

Chains in the ground for Standard
 Corner to Secs 35 + 36 Modus
 S.C. T. 20 S. R. 4 E. on N.
 S. 36 on E. and

S. 35 on W. faces, with 1
 notch on E. and 5 on W.
 faces, dug pits 18x18x12
 ins N. E + W. of post 5 1/2
 ft. dist, and raised a
 mound of earth 2 ft high
 4 1/2 ft base around post

Land poor
 Grass fair
 Dense brush

Scattering Palo Verde and Mes-
 quite trees -

Papago town of Tohowa, on
 N. abt 18 ms. dist + Artesa

Range H E.

D. R. Meridian -

N. about 25 miles - Aresca is about 5 ms S.W. of Topowa and Tecolote is about 15 miles N.W. of Topowa.

Their principal town is Fresnal which is about 12 miles E. of Topowa and just N. & N. of the Fresnal or Barboquivari^{pk}. The official maps are wrong.

N. on S. boundary of Sec. 35.
 Val $13^{\circ} 02' E$.

Gradually ascending

44000 Set a post 3 ft. long 3 ins sq. with a marked stone, 12 ins in the ground for Standard

4th Standard S.

G +

Chains $\frac{1}{4}$ Sec. Cor. Marked S.C.
 $\frac{1}{4}$ on N. face, dug pits
 18 x 18 x 12 ins. E. & W. of post
 5 $\frac{1}{2}$ ft dist. and raised a
 mound of earth 1 $\frac{1}{2}$ ft high 3 $\frac{1}{2}$
 ft. base around post.

8000 Set a post 4 ft. long 4 in sq.
 with marked stones 12 ins. in
 the ground for Standard Cor. to
 Secs 34 + 35. Marked S.C. \hat{I} . 205.
 R. 4 E. on N.

D. 35 on E. and

S. 34 on W. faces, with 2
 Nolatus on E. and 4 Nolatus
 on W. faces, dug pits 18 x 18
 x 12 ins N. E. + W. of post 5 $\frac{1}{2}$
 ft. dist. and raised a mound
 of earth 2 ft. high 4 $\frac{1}{2}$ ft base

Range 4 E.

P. R. Meridian.

Chains round post.

A Palo Verde Tree - 10 ins. diam.

hrs N. 15° W. 25 lks dist.

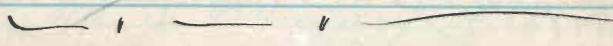
Marker T. 20 S. R. 4 E. S. 34. 187.

Land 3^d rate

Grass fair

Dense brush

Scat Palo Verde & Mesquite Trees



West on S. Boundary of Sec. 34.

Var 13° or 2°

gradually ascending.

3300 Cross Trail hrs N. & S.

4000 Set a post 3 ft long 3 ins sq.
with a marker stone, 12 ins

4th Standard S.

G. +

Chairs in the ground for Standard 1/4
Sec. Cor. Marked S.C. 1/4 S. on
N. face, dug pits 18x18x12
ins E. & W. of post 5 1/2 ft
dist, and raised a mound
of earth 1 1/2 ft high 3 1/2 ft
base around post.

8000 Set a post 4 ft. long 4 ins
sq. with marker stone 12 ins
in the ground for Standard
Cor. to Secs 33 & 34 marked,
S.C. S. 20 S. R. 4 E. on N.
S. 34 on E.

S 33 on W. faces, with
3 notches on E. & W. faces
dug pits 18x18x12 ins N. E. &
W. of post. 5 1/2 ft. dist, and
raised a mound of earth

Range 4. E.

S. R. Meridian

Chains 2 ft. high $4\frac{1}{2}$ ft. base round post.

Soil 3^d rate

grass fair

dense brush

Scattering Palo Verde and Mesquite trees.

April 28th 1886.

"

N. on S. boundary of Sec. 33.

N. $13^{\circ}02'E$.

Gradually ascending

4000 Put a post 3 ft. long 3 ins. sq. with marker stone, 12 ins in the ground for standard $\frac{1}{4}$ Sec. Cor. Marked S.E. $\frac{1}{4}$ S. on N. face, dig pits $18 \times 18 \times 12$ ins E. & W. of post $5\frac{1}{2}$ ft. dist. and raised a mound of

4th Standard S.

G. &

Chs earth $1\frac{1}{2}$ ft. high $3\frac{1}{2}$ ft
base, around post.

8000 Set a post 4 ft. long 4 ins sq.
with marker stones 12 ins. in
The ground for Standard Cor.
to Recs. 32 + 33, markers
S.C. 9. 20 S.R. 4 E. on N.

S. 33 on E. and

S. 32 on W. faces with 4
notches on E. and 2 notches
on W. faces, dug pits $18 \times$
 18×12 ins. N, E & W. of post
 $5\frac{1}{2}$ ft. dist. and raised a
mound of earth 2 ft. high $4\frac{1}{2}$
ft. base, round post.

Soil 3^d rate

Grass fair

Range 4 E.

S. R. Meridian

chs dense brush
 Scattering Palo Verde + Mesquite
 trees. April 29th 1886.

W. on S. boundary of Sec 32.
 Nw $13^{\circ}02' E$.

gradually ascending

- 4000 Set a post 3 ft. long 3 ins. sq.
 with marker stone, 12 ins in
 the ground for Standard $\frac{1}{4}$ Sec.
 Cor. marked S.C. $\frac{1}{4}$ S. on N.
 face, dug pits 18x18x12 ins E.
 & W. of post $5\frac{1}{2}$ ft. dist, and
 raised a mound of earth $1\frac{1}{2}$ ft
 high $3\frac{1}{2}$ ft. base around post.
- 8000 Set a post 4 ft. long 4 ins. sq.
 with marker stone 12 ins in the

4th Standard S.

G +
 the ground for Standard Cor. to
 Rees 31 + 32. marker
 S. C. T. 20 S. R. 4 E. on N
 S. 32 on E. and
 S. 31 on W. faces with 5
 notches on the E. and 1 notch
 on the W. faces; dug pits
 18 x 18 x 12. N, E, & W, of post
 5 1/2 ft. dist. and raised a
 mound of earth 2 ft. high
 4 1/2 ft. base round post.
 A Palo Verde tree 14 ins diam. brs.
 N. 2° W. 53 lks dist marked
 T. 20 S. R. 4 E. S. 31. B. T.

Soil 3^d rate

Grass good
 Dense brush
 Scattered Palo Verde & Mesquite trees.

Range H E.

S. R. Meridian

0.00 N. on S. boundary of Sec 31.
 Va 13°02' E.

gradually ascending

10.00 Set a post 3 ft. long 3 ins sq.
 with marked stone, 12 ins in
 the ground for standard $\frac{1}{4}$ Sec
 Cor. Marked S. C. $\frac{1}{4}$ S. on N.
 face, dug pits 18 x 18 x 12 ins
 E. & W. of post 5 $\frac{1}{2}$ ft. dist
 and raised a mound of earth
 1 $\frac{1}{2}$ ft high 3 $\frac{1}{2}$ ft base a-
 round post.

13.00 Cross trail b/w N. E. & S. W.

20.00 Set a post 4 $\frac{1}{2}$ ft. long 4 ins.
 sq. with marked stone 12
 ins in the ground for standard
 Cor. to Tps 20 S. Rs. 3 & 4 E.

4th Standard S.

y +

chs. Marked.

S.C. T. 20. S on N.

R. 4 E. S. 31 on E. and

R. 3 E. S. 36 on W. faces

with 6 notches on N. E. & W.

faces. dug pits 24x18x12 ins

Crosswise on each line N.E.

and W. of post. 6 ft. dist.

and raised a mound of earth
2 1/2 ft high 5 ft. base around
post.

A Mesquite 12 ins diam brs N.

40° N. 40 lbs dist. Marked

T. 20 S. R. 3 E. S. 36. B. T.

A Mesquite 10 ins diam brs N. 30° 15' E.

148 lbs. dist. Marked.

T. 20 S. R. 4 E. S. 31. B. T.

N.W. P^K La Union Alto bus

Ranges 3 + 4 E.
D. R. Meridian.

Chs. S. 64° 30' E.
Bartoguirari P^h bos. N. 72° 10' E.
Soil 3^d rate
grass fair
Dense brush
Scattering Palo Verde + Mesquite
trees -

This T^p. line runs across
the low foot of the La Union
Mts. on their N. foot, and
looks to the N. over a very
fine valley with rich
soil here and there Indian
Villages and their grain
fields. With Artesian
wells it would be a
very rich valley of many miles
N. S. + N.

4th Standard S.

G. +

Chs.

From the Standard Cor. to Sps
20 S. Rs 3 & 4 E. I run
N. on the S. boundary of Sec. 36.
Va 13° 02' E

Gradually ascending.

40.00 Set a post 3 ft. long 3 ins sq.
with marker stone 12 ins in the
ground for Standard $\frac{1}{4}$ Sec Cor.
Marker S. E. $\frac{1}{4}$ S. on N. face
dig pits 2 x N 18 x 18 x 12 ins
and 5 $\frac{1}{2}$ ft dist from post
and raise a mound of earth
1 $\frac{1}{2}$ ft high 3 $\frac{1}{2}$ ft base a
round post

56.00 Cross trail on N. E. & W.

Range 3 E.

S.R. Meridian

cks

71.50 Crosser trail bet N.E. + S.W.

80.00 Set a post 4 ft long 4 ins dia. with marker stone 12 ins in the ground for Standard Cor. to Secs. 35 + 36. Marker S.E. \bar{N} . 20 S. R. 3. E. on N. S. 36 on E.

S. 35 on W. faces with 1 notch on E. and 5 notches on W. faces, dug pits 18x18x12 ins. N. E. + W. of post $5\frac{1}{2}$ ft dist. and raised a mound of earth 2 ft. high $4\frac{1}{2}$ ft. base around post. a Paly Verde, 12 ins dia bet N. 5° W. 112 lks dist. Marked

4th Standard South

G. +

chs T. 20 S. R. 3 E. S. 35 B. P.

gradually ascending to W.
 Dense brush
 Soil 3rd rate

grass fair

Scat. Mesquite + Palo Verde

April 30th 1886

N. on S. Boundary of Sec 35
 Va 13° 2' E

gradually ascending

1700 Foot of a short Ridge cut
 ascent abruptly

2400 Top of Ridge bro N.W. + S.E.
 about 100 ft high

2500 descent abruptly

3100 Foot of Ridge and along Mur

4000 Cut a post 3 ft long 3 ins sq.

Range 3 E.

J.R. Mendean

chs with marker Stone 12 ins in
the ground. for Standard
1/4 Sec. Cor. Marker S.E. 1/4 S.
on N. face, dug pits
18 x 18 x 12 ins E + W. of post
5 1/2 ft. dist. and raised a
mound of earth 1 1/2 ft high
3 1/2 ft. base around post.

65.50 Cross a Wash Cr. N.W.

78.50 Cross a Trail to Cabato,
Cros N.E. + S.W.

80.00 Set a post 4 ft long 4 ins sq.
with marker Stone 12 ins in
the ground, for Standard Cor.
to Secs. 34 + 35. Marker
S.E. S. 20 S. R. 3 E. on N.
S. 35 on E. and
S. 34 on W. faces, with 2

4th Standard Trench

G. +

chs. Notches on E. and 4. notches
 on W. faces. dug pits 18x
 18x12 ins. N, E, + W, of post
 5 $\frac{1}{2}$ ft. dist, and raised a
 mound of earth 2 ft. high
 4 $\frac{1}{2}$ ft. base around post

Same, with exception of
 Ridge, rolling
 Soil & water
 Dense brush
 Scat. trees.

R. 3 East

O. R. Meridian

40.00 W. on S. boundary of Sec. 34.
Va $13^{\circ}02' E$

Slightly rolling

40.00 Set a post 3 ft. long 3 ins sq.
with a marked stone 12 ins in
the ground, for Standard $\frac{1}{4}$
Sec. Cor. Marked $\frac{1}{4}$ S. on N.
face, dug pits 18 x 18 x 12 ins
E. & W. of post 5 ft dist
and raised a mound of earth
1 ft. high 3 ft. base a-
rounded post.

67.50 Cross Wash Cr. N. W.

73.25 Cross Trail Cr N.W. + S. E.

80.00 Set a post 4 ft long 4 ins. sq.
with marked stone, 12 ins in
the ground, for Standard Cor.

4th Standard South

Gila and

chs. to Secs. 33 + 34 marked.

S. C. T. 20 S. R. 3 E. on N.

S. 34 on E. and

S. 33 on W. faces. with

3 notches on E. & W. faces
dug pits 18 x 18 x 12 ins N. E. & W.

of post 5 1/2 ft. dist. and
raised a mound of earth
2 ft high 4 1/2 ft base around
post

A Mesquite 16 ins. in dia brs

N. 5° W. 124 lbs dist. marked

T. 20 S. R. 3 E. S. 33 B. P.

surface slightly rolling
dense brush

grass fair
scat trees

Range 3 East.

Salt River Meridian.

Chs N. on S. boundary of Sec. 33.
Var 130 02' E,

21.59 Intract International Boundary
2. Miles 37 chs, 50 Chs S. 69°
20' E. of Mon. No. 13. of the
International Boundary as
found by me by retracing
said line. at which point
I set a post 5 ft. long 5 in
sq. for Standard Closing
Co. with International Bound-
ary marked S. C. C. U. S.
on N. and

I. B. on E. + W. and
M. I. B. on S. faces
dug pits 24 x 18 x 12 in
5 1/2 ft dist. N. N. 69° 20' W.
+ S. 69° 20' E of post, and

Hrd Standard South

Gila and

chs. raised a mound of
earth 3 ft high 5 ft
base around post, from
which.

Barboquiviri Pt to N. $78^{\circ}20' E$
N.W. Ptth La Union Mts to S. $72^{\circ} E$.

The soil of this valley
is very fair and would
with water raise any
Crop. Artesian Wells
seem feasible
May 1st 1886.

For final notes see
book N^o.

Range 3 East

Salt River Mendocino

Sho

U. S. Surveyor General's Office,

Tucson, Arizona, June 14 1886

The foregoing Field Notes of the Survey of the

4th Standard Parallel
South through Range
4 and a part of Range
3 East

Of the Gila and Salt River Base and Meridian, Arizona, execu-
ted by Lewis Wolfley

Deputy Surveyor, under his contract of the 28th
day of February, 1885, having been

critically examined and the necessary corrections and explana-
tions made, the said Field Notes and the surveys they describe
are hereby approve.d

John Wise
Surveyor General.