

Contract No. 32

15-48^{BOOK} 1548

Resurvey
of

3^d Standard Parallel South
Ranges 16 and 17 E.

1893.

4-671

1548

FIELD NOTES
GENERAL LAND OFFICE.

15-48

Field Notes
of the resurvey of the

Third Standard Parallel South
through
Ranges No. 16 and 17 East
of the
Principal Base and Meridian
in the

Territory of Arizona
as surveyed by James H. Martineau
U. S. Deputy Surveyor
Under his contract No. 32

Dated June 27. 1893

Survey commenced Oct. 25th 1893
Survey completed Oct. 30th 1893.

BOOK 1548

Book No. 1548

Third Standard Parallel
through

(4-674.)

Townships 15 & 16 S Ranges 16 & 17 E

BOOK 1548

6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

R. 16 E. 3 4 5 7 10 12

6-389

R. 17 E. page 16 17 19 21 22 24

BOOK 1548

Invent road & bel. line in notes
as in plat

Index

3 rd Standard South Through	
Range 16 East	3.
" 17 "	16.

Third Standard Parallel S.

Survey commenced Oct. 25
1893 with a W. & L. E. Gurley
Engineers Transit, with five inch
needle and Solar attachment.

Contract No. 32 dated June
27th 1893 for surveying the
exterior and Subdivision lines
of Tps. 15 South Ranges 16 & 17
East requires me to start
those lines from the 3^d Stand-
ard Parallel South, which was
surveyed more than twenty
years ago. On arriving there I
could find no Standard
corners, nor hear of any, but
after two days search found
the location of Standard Cor.
to Secs. 34 and 35 Tp. 15 S. R.
16 E., but the post was gone,

through Range 16 East.

no pits visible, and only a very slight remains of the former mound. Retracing the line, both east and west, from said point of location of the corner, I found every corner obliterated,

I am compelled therefore to resurvey this part of the Third Standard Parallel South by my Special instructions dated Sept 3rd 1893 and by the Manual of Instructions. (See page 40)

I therefore proceed to the Standard Corner to Tps. 15 S. R. 15 W. 16 E, and begin my survey at that point, which is in Lat. $32^{\circ} 5'$ North, and Long. $110^{\circ} 43' 42''$ (as given by Rule 4 page 92 of Manual)
At 11^h 1.50 correct astronomical time by my watch, I take an

2 Third Standard Parallel South

observation on Polaris at its upper culmination, and find the magnetic bearing of the star to be $12^{\circ}15' W$. I drive a picket on the line thus obtained, four chains north of the Standard Cor.

Oct. 25, 1893

At 7 a.m. I take the magnetic bearing of the line established last night and find it $N. 12^{\circ}17' W$. Reduced by table page 55 of manual, the average declination is $12^{\circ}15' East$.

I begin at the Standard Cor. point of Tp. 15 S. Ranges 15 & 16 E. described in original field notes as a post with charred stick, mound and pits. The mound is still

through Range 16 East 3

visible, pits filled up and post which was formerly set had fallen down. I reset post which is marked as described in notes furnished me by Surveyor General, dug pits and raised mound around it as directed in Manual.

Thence I run East
on S. boundary of Sec. 31
Va. $12^{\circ} 15' E.$

- 28.28 Center of Southern Pacific R. R.
bears N. W. & S. E.
- 29.40 Road and telegraph line, bears N. W. & S. E.
- 40.07 The original $\frac{1}{4}$ Sec. Stand. Cor.
Mound and pits faintly visible.
Post gone. Set post marked $\frac{1}{4} S$
on N. Side and dug pits deeper
(original) on N. E. & W. 5 ft dist,
and raised mound 2 ft high

Third Standard Parallel South

$4\frac{1}{2}$ ft base around it.

7305 Closing Cor. to Secs. 5 & 6 T. 16 S.
R. 16 E. in place

80.11 The Cor. to Secs. 31 & 32 Tp. 15 S.,
R. 16 E. in place.

Land level, with good grass.

Soil 2nd & 3rd rate, sandy in places.

No timber

East on S. Bdy, Sec. 32.

Va. $12^{\circ}15'$ E.

140.10 Original location of Stand. $1\frac{1}{2}$ Cor.
Cor. No mound, pits faintly discernable,
and post lying near. Dug and found bottom of
post between the pits. Reset the old post,
dug pits $18 \times 18 \times 12$ ^{N. E. & W.} ⁱⁿ $5\frac{1}{2}$ ft dirt and raised a
mound of earth $1\frac{1}{2}$ ft high

through Range 16 East

3 1/2 ft base around post.

72.45 Closing Cor. to Secs. 4 & 5 Tp. 16 S,
R. 16 E. in place.

78.95 Bottom of small ravine, drains N.E.

80.15 Original location of Stand. Sec.
Cor. to Secs 32 & 33 Tp. 15 S. No
md. or pits visible, found old post
near by on ground. Reset same
in md. of stone and raised a
md. of stone alongside. Pits
impracticable, in W. side of
small gulch drains N. E into
Ponntomo Valley.

Land generally level.

Soil 2^o rate. Sandy

No timber

East along S. bdy. Sec 33
Va. 12° 15' E.

Third Standard Parallel South

- 0.50 Top of level mesa
- 2.70 Brow of mesa. Descend into valley
- 15.10 Left bank of Pantano Wash,
runs N. 20° W.
- 17.20 Right bank Senru Wash, banks
about 3 ft. high.
- 40.05 Original place of Stand² 1/4 Sec.
Cor. Old mound faintly visible,
no pits. Old post fallen down.
I reset it in mound, dug pits
N. E. & W. 5 1/2 ft dist, 18 x 18 x
12ⁱⁿ and raised mound of
earth around post 1/2 ft high
and 3/2 ft base around post
- 44.00 foot of hill, & ascend
- 49.00 Top of hill, Thineu on mesa.
- 55.70 Bottom of ravine 20 ft deep drain
S. W. into Pantano valley.
- 72.35 Closing Cor. to Accs. 3 & 4

through Range 16 East

Sp. 16 S. R. 16 E. in place

77.40 Wash, drains N. 50° W.

79.40 Centre of road, bears N. 70° W.

81.20 Original location of Horn² Cor. to

Secs. 33 & 34. Mound and pits

plainly visible, but post

rotted off at ground. Reset

post in original mound, dug

pits deeper and raised mound

of Earth around post 2 ft high

and $4\frac{1}{2}$ ft base.

Land level

Soil 2nd rate, sandy

No timber.

East, along S. boundary of
Sec. 34

N. $12^{\circ} 15'$ E.

Over level land

Third Standard Parallel South

- 46.37 Original location of Stand²
 $\frac{1}{4}$ Sec. Cor. Old md, and pits
 discernable, but post gone.
 Reestablished $\frac{1}{4}$ Sec. Cor. by
 setting mosquito post 4 ft
 long by 4 ins. sq. with marked
 stone 12 ins. in ground for $\frac{1}{4}$
 Sec. Stand. Cor. marked $\frac{1}{4}$ S
 S.E. on N. face, dug pits 18 x 18
 x 12 in N. E. & W of post $5\frac{1}{2}$ ft
 dist, and raised mound of earth
 2 ft high and $4\frac{1}{2}$ ft base
 around post
- 72.27 The Closing cor. to Secs. 2 & 3. Sp. 16
 S. R. 16 E. ~~in place~~ ^{nearly} obliterated.
- 78.07 Road, course: N. 65° W.
- 80.22 Original location of Stand²
 cor. to Secs. 34 & 35
 Slight evidence of old mound

through Range 16 East

but no pits or post. Reestablish
Sec. Cor. by setting mosquito
post 4 ft long 4 in. dia. with
marked stem 12 in. in ground
for Standard Cor. to Secs. 34
and 35, marked

S.C.T. 15' S. R. 35 - R. 16 E. on N.
S. 35 on E. and

S. 34 on W. faces, with 2
notches on E. and 4 on W.
faces, dig pits 18 x 18 x 12 in
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 level

Soil 2nd Class, Sandy loam.

No timber, but some few
mosquito and palo verde trees.

Third Standard Parallel South

East along S. Bdy. Sec. 35

Va. $12^{\circ} 15' E.$

- 40.00 Original place of ~~the~~ Stand. $\frac{1}{4}$ Sec. Cor. in small wash runs West. No mound or pits, and post fallen down. reset old post, which is marked S.C. $\frac{1}{4} S$ 12 ins in ground, and dug pits $18 \times 18 \times 12$ in $5\frac{1}{2}$ ft dist. from post N. E. & W. and raised mound of Earth 2 ft high $3\frac{1}{2}$ ft base around post.
- 58.79 Old, disused road, bears S. $20^{\circ} E.$
- 64.12 Wash, drains N.W. 30 els wide
- 73.27 Closing Cor. to Secs. 1 & 2 Sp. 16 S. R. 16 E. in place.
- 80.44 Original location of Stand cor. to Secs. 35 & 36. Old mound

Through Range 16 East

fairly visible, but no pits, & post rotted off at ground and fallen down. Re-establish cor. by setting Musquit post 4 ft long 4 in. dia, 12 ins. in ground with marked stone for stone cor. to Sec. 35 & 36, marked S.E. T. 15 S. R. 16 E. on N.

S. 36 on E and

S. 35 on N. face, with one notch on E. and 5 notches on N. edges face. dug pits 18 x 18 x 12 ins. 5 1/2 ft dist. N. E. & W. of post, and raised a mound of earth 2 ft high 4 1/2 ft base around post.

Land level

Soil 2nd rate. Sandy loam

No timber

72
12

Third Standard Parallel South

East, along S. Bdy. Sec. 36,
Va. 13° 15' E.

24.46 Wash, course N. 50° W.

38.94 Original location of Stand. 1/4
Sec. Cor. Mound nearly oblit-
erated and pits entirely filled
up. Dug in center of mound
and found bottom of former
post, which was lying close by.
Reset old post 12 ms. ^{in ground,} ~~steps~~ with
mkd. Stone for Stand - 1/4 Sec.
Cor. Mk'd S.E. 1/4 S on N. face
dug pits 18x18x12ⁱⁿ 5 1/2 feet
dist. N. E. & W. and raised
mound of earth 1 1/2 ft high
3 1/2 ft base around post.

41.74 Small Wash, drains N. W

48.45 foot of hill. Ascend

53.00 Top of North Side of hill, bears S.

through Range 16 East

- 63.00 Bottom of same hill
- 63.20 Wash, runs N. W.
- 70.26 Closing Cor. to Secs. 1 & 6 Tp. 16 S., Ranges 16 & 17 E., in place.
- 79.35 Original location of Standard Cor. to ~~Secs. 1 & 6~~ Tp. 15 S., Rs. 16 & 17 E. Post gone, no pits visible, and old mound very faintly discernable. Found the bottom of old post in mound. Re-establish this cor. by setting a musquit post 4 ft long, 4 ins. sq, with metal stone 12 ins. in ground for Standard Cor. to Tp. 15 S., Rs. 16 & 17 E., marked S. C. T. 15 S. on N. R. 17 E. ^{S. 31} on E. and R. 16 E. ^{S. 36} on W. faces, with 6 notches on N. E. and W. faces.

Third Standard Parallel South

Dug pits $24 \times 18 \times 12$ ins crosswise
on each line N, E, & W, of posts,
6 ft. dist, and raised mound
of earth $2\frac{1}{2}$ ft high 5 ft base
around post.

Land generally level, slopes
to north gently.

Soil 2nd rate, sandy

No timber, but some scattered
Mosquitoes and Palo Verde.

October 26, 1893

through Range 16 East
General Description

— 11 —

This line runs over a level table land, covered with grass. The lands of townships of each side the line are level one or two miles, then become broken, and on N. side, mountains. There is no timber in the townships on each side, but some scattering mesquites and Palo verde.

Third Standard Parallel

October 27. 1893

From Cor. to Sp. 15 S. Ranges

16 & 17 East 1/4 sec

East, along S. bdy. Sec. 31

Va. $12^{\circ}15' E$

- 2.00 Small wash, drains N $12^{\circ} E$
- 13.60 Wash, drains N.W.
- 29.90 Wash " "
- 40.00 Original $1/4$ Sec. Cor. post in place, with mound and pits nearly obliterated but still discernible. Dug pits deeper and raised a mound of earth $1\frac{1}{2}$ ft high $3\frac{1}{2}$ ft base around post
- 42.40 Arroyo or wash, drains N.W.
- 68.50 Closing cor. to Secs. 5 & 6 Sp. 16 S. R. 17 E. in place.

South. through Range 17 East.

68.70 Wash, course N. 10° E.

79.80 The original cor. to Secs. 31 & 32. Mound nearly obliterated, pits filled up, and post fallen down. I reset old post mtd. as described in notes furnished by the Surveyor General, dug pits 18 x 18 x 12ⁱⁿ 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 broken

Soil 3rd rate

No timber.

 East along S. bdy. Sec. 32
 Va. 12° 15' E.

Third Standard Parallel South

- Over broken ground of foothills.
- 46.02 Original $\frac{1}{4}$ sec. Cor. point. Mound and pits almost obliterated & post lying on ground. Reset post in original mound, mkd as described in notes furnished by the Surveyor General, dug pits N. E. & W. of post $5\frac{1}{2}$ ft dist. and raised mound of earth $1\frac{1}{2}$ ft high $3\frac{1}{2}$ ft base around post.
- 60.42 foot point of mountain, and center of deep gulch runs N. Enter mountainous land.
- 68.70 Top of ridge, bears N. & S.
- 69.76 Closing cor. to Secs. 14 & 5 Sp. 16 S. R. 17 E. in place, on N. side of steep, rocky mountain.
- 80.22 Original location of Standard Cor. to Secs. 32 and 33. No pits

through Range 17 East.

visible, and mound of Stone nearly obliterated with original cor. post lying by it. I reset post, which is mkd, as described in notes furnished by Surveyor General, in a mound of Stones and raised a mound of Stones $1\frac{1}{2}$ ft high 2 ft base along side.

Pits impracticable. Corner is on steep North slope of mountain.

Land broken 60.42 Chs and
mountainous 19.80 Chs.

Soil 5th rate

No timber

East along S. bdy. Sec. 33

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

Descend along rocky mt. side

Third Standard Parallel S.

- 6.00 foot of hill, and ascend
- 18.00 Top of next ridge, bears N. & S.
Descent
- 27.00 Deep wash, runs N.
- 39.75 Top of hill, and original $\frac{1}{4}$ sec.
post in place in mound of stones
on a ridge of limestone, bears N. & S.
- 43.40 Bottom of descent, and ascend
- 69.50 Top of ridge of Mt., bears N. & S.
Descent.
- 78.50 Wash, drains S. W.
- 80.30 Original Standard Cor. Mound
nearly destroyed, no pits, and
old sec. post lying by mound.
Reset post, which is mtd. as
described in notes furnished
by the Surveyor General, in
mound of stone, and raised
a mound of stone $1\frac{1}{2}$ ft high

through Range 17 East.

3 1/2 ft base alongside. Pits
impracticable.

Land Mountain Sv. 30 chs.

Soil 5th rate

No timber

Oct. 27, 1893.

East along S. bdy. Sec. 34
Va. 12° 15' E.

- 29.00 Deep Wash, drains N. W.
- 31.50 Begin to ascend Mt.
- 40.06 Original Standard 1/4 Sec. Cor.
in place in Ind. of Stones mtd 1/4 S
on N. face. No pits.
- 65.00 Top of mountain bears. N. & S.
- 8.00 foot of descent & hollow dr. N.
Ascend
- 79.40 Original Standard Cor. post in

Third Standard Parallel South

mound of Stones. near top of high mountain, about 600 ft above Sea level. Raised mound of Stones $1\frac{1}{2}$ ft. high $3\frac{1}{2}$ ft base alongside. Pits. impracticable.

Land mountainous 79.40 Chs.

Soil 4th rate, gravelly & stony
No timber

East along S. bdy. Sec. 35
Va. 12° 15' E.

Over very mountainous country.

3.00 Top of Spur of Mt, bears N. Descend.
a little then ascend

13.00 Top of high ridge, bears N & S.
Descend very steeply.

35.00 foot of descent, and deep wash
about 600 feet below last ridge,

through Range 17 East

drains S. around mountain.

- 40.24 Original location of Standard
 $\frac{1}{4}$ sec. Cor. Mound visible,
 no pits, and old post lying
 near on ground. Re set post
 in mound of stones, mkd $\frac{1}{4}$ S
 on N. face, and raised mound
 of stones $1\frac{1}{2}$ ft high 3 ft base
 alongside. Pits impracticable.
- 41.00 Begin to ascend ridge
- 47.00 Top of ridge bears S. Descend.
- 54.00 Deep wash, drains S. Around
 very steep rocky Mountain.

October 28, 1893

- 71.16 Closing Cor. to Sec. 35×36 Sp. 16S
 R. 17 E. in place
- 79.36 Original Standard Cor. to Sec.
 35 and 36 in place, as described

Third Standard Parallel South

in field notes furnished by the
Surveyor General.

Land Mountainous 79.36 chs.

Soil 5th rate

No timber.

East along S. bdy. Sp. 158 R. 17E

Sec. 36

N. $12^{\circ} 15' E$.

- 19.00 Top of rocky ridge bears S. Descend
34.00 Bottom of deep Cañon, dr. S.
39.90 Point for Standard $\frac{1}{4}$ sec. cor.
Old mound obliterated, and old
post lying near. Reset old post
in mound of stones, marked as
described in notes furnished by
Surveyor General. Built a
mound of stones $1\frac{1}{2}$ ft high

through Range 17 East

- 3 ft base alongside. Ascend steep rocky ridge bears S.
- 45.60 Top of ridge and descend.
- 53.00 Foot of same, & deep wash dr. S. Ascend very steeply.
- 66.50 Top of ridge bears S. Descend.
- 76.85 Deep wash, dr. S.
- 79.35 Original location of Standard cor. to Sp. 15 S. Ranges 17 & 18 E. Mound faintly discernable, no pits, and post lying about 50 lbs. distant down hill. Reset the post, mkd. as described in notes furnished by Surveyor General, in mound of stones, & raised a mound of stones 1 1/2 ft high 3 ft base alongside. Pits impracticable. A small Spring of good water 40 lbs S. W.

Third Standard Parallel South

Mountainers 79.35 Chs.

Soil 5th rate

No timber.

Oct. 30th 1893

Note.

I find the east boundary of Tp. 15 S. R. 17 E. would pass over the highest part of East Pincen Mountain; and that it is too rough and precipitous to survey said east boundary, and therefore do not attempt it, and return to the Standard Cor. to Tp. 15 S. Ranges 16 & 17 E. to survey the boundary line between 16 & 17 E.

through Range 17 EastGeneral description

— 11 —

The townships on either side of this line are broken in western part and exceedingly mountainous in eastern part. There is considerable grass, but no timber, and no arable land except in the north western part of Twp. 15 S, R. 17 E. There is no running water at present, but evidence of torrents during the rainy season. There are indications of copper and silver in several places.

James H. Martineau
U. S. Geol. Surveyor