

Contract No. 32.

1543

Exteriors of

Sp. 15 S. — Tps. 16 & 17 E.

1543

BOOK 1543

4-671

**FIELD NOTES**  
**GENERAL LAND OFFICE.**

BOOK 1543

1543

BOOK 1543

Field Notes  
of the survey of the

Exterior Boundaries

of  
Township 15<sup>th</sup> South Range 16 E.

of the  
Principal Base and Meridian  
in the

Territory of Arizona  
as surveyed by

James H. Mastineau

U. S. Deputy Surveyor

under his contract No. 32

dated June 27<sup>th</sup> 1893

— " —

Survey commenced Oct. 23<sup>d</sup> 1893

Survey completed Oct. 31<sup>st</sup> 1893

Names and duties of  
Assistants.

— 11 —

Benjamin S. Johnson	Chairman
Arthur Openshaw	Chairman
John J. Tucker	Recorder
Theodore Martineau	Flagman

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BOOK 1543



BOOK 1543

North and

West Boundary

(4-674.)

Township 15 S. R. 16 East

BOOK 1543

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

BOOK 1548

(4-674.)

Township 15 S. R. 17. East

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

1AA

Preliminary Oaths of Assistants.

we *Benjamin S. Johnson*  
 and *Arthur Openshaw*  
 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 *Townships*  
*15. South. Ranges 16*  
*and 17. East.*

BOOK 1543

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

*Benjamin S. Johnson* Chainman.

*Arthur Openshaw* Chainman.

Chainman.

Chainman.

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

day of *October* 189*8*.

*Wm. Ferry*  
 Notary Public.

[SEAL.]



We, *John J. Tucker* 13  
and *Theodore Martineau*

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

*Axeman and Flagman*

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 *Tmrs.*

*N<sup>o</sup> 15 South Ranges*  
*16 and 17 East*

BOOK 1543

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

*John J. Tucker Axeman*

*Theodore Martineau Flagman*

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

day of *October* 189*3*

*Los. J. Perry* Notary Public.



## West Boundary

Survey commenced Oct. 23<sup>d</sup>  
1893, with a Mr L. E. Gurley  
Transit with solar attachment.

At the Standard Cor. to Tps.  
15 S. Ranges 15 and 16 East,  
in Lat.  $32^{\circ} 5' N.$  and Long.  
(Approximately)  $110^{\circ} 43' 42''$   
I observe Polaris at its upper  
culmination at 11<sup>h</sup> 9.36 P.M.  
and find its magnetic bearing  
to be  $N. 12^{\circ} 15' W.$  and the variation  
to be  $N. 12^{\circ} 15' E.$  I mark the  
true meridian so ascertained  
by driving a picket 4 chains  
north of the corner.

October 23<sup>d</sup> 1893

T. 15 S. Range 16 East

At 8 A.M. Oct. 24 I find the magnetic bearing of the line established last night to be N.  $12^{\circ} 17'$  W. and, by table page 85 of Manual, the mean declination is N.  $12^{\circ} 15'$  E.

I begin at the Standard Cor. to Tp. 15 S. Ranges 15 & 16 E. which is a post 4 ins. square marked S.C.T. 15 on N.

R. 16 E.  $\frac{S}{N}$  31 on E.

R. 15 E. S. 36 on W. face, with 6 notches on N. E. & W. faces, and pits  $24 \times 18 \times 12$  ins. crosswise on each line N. E. & W. of post 6 ft dist, and mound of earth around post.

Thence I run North between Secs. 31 & 36

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## West Boundary of

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

Over level land

39.20 Center of Southern Pacific R.R.  
bears N. W. & S. E.40.00 Set mesquite post 4 ft long  
3 ins. sq. with 12 ins. in the  
ground with marked stone for  
 $\frac{1}{4}$  Sec. Cor. marked  $\frac{1}{4} S$  on W.  
face and raised a mound of  
stones  <sup>$1\frac{1}{2}$  ft high 2 ft base</sup> around post. As this  
post is set in north edge of  
railroad cut a mound along  
side and pits impracticable.41.80 Dragon road and telegraph line  
bear N. W. & S. E.80.00 Set a stone  $15 \times 12 \times 10$  ins.  
10 ins. in the ground for cor. to  
Secs. ~~30~~ <sup>25</sup> 31, ~~32~~ & 36 marked with  
1 notch on S. and 5 notches on



## Twp. 15 South Range 16 East

N. edges, dug pits  $18 \times 18 \times 12$  ins  
 in each Sec.  $5\frac{1}{2}$  ft distant and  
 raised a mound of earth 2 ft  
 high  $4\frac{1}{2}$  ft base alongside.

Land level ~~Pits impracticable.~~

Soil, sandy 2<sup>nd</sup> rate  
 No timber.

North Sect. Secs. 25 and 30

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

over land nearly level

40.00 Set a redwood post <sup>3 ft. long</sup> 3 ins Sq. with  
 mkd. stone 12 ins. in ground for  
 $\frac{1}{4}$  Sec. Cor. Mkd.  $\frac{1}{4} S$  on N.  
 face, dug pits  $18 \times 18 \times 12$  ins.  
 N. & S. of post  $5\frac{1}{2}$  ft distant  
 and raised a mound of earth  
 $1\frac{1}{2}$  ft high  $3\frac{1}{2}$  ft. base around  
 post. in grassy swale.



West Boundary of

80.00 Set a stone 15 x 10 x 8 ins. 10<sup>in</sup>  
 in ground for cor. to Sec. 19  
 80.24, 25 <sup>30</sup>marked with 2 notches  
 on S. and 4 notches on N. edges  
 dug pits 18 x 18 x 12 ins in  
 each Sec. 5 1/2 ft dist. and  
 raised a mound of earth  
 2 ft high 4 1/2 ft base along-  
 -side.

Land gently rolling  
 Soil 1<sup>st</sup> and 2<sup>nd</sup> rate  
 No timber

North between Sec. 19 & 24  
 Var. 12° 15' E.

0.70 Center of Wagon road leads to  
 Tucson

40.00 Set Mesquite post 4 ft long

## Twp. 15 S. Range 16 East

4 in Square with mkt Stone  
 12 ins. in the ground for  $\frac{1}{4}$   
 Sec. Cor. Mkt.  $\frac{1}{4}$  S. on N. face  
 dug pits 18 x 18 x 12 ins. N. & S.  
 of post  $5\frac{1}{2}$  ft dist, and  
 raised a mound of earth  $\frac{1}{2}$   
 ft high  $3\frac{1}{2}$  ft base around  
 post.

80.00 Set a mesquite post 4 ft  
 long 4 in. sq. with mkt.  
 Stone 12 ins. in the ground  
 for Cor. to Secs. 18, 19, 13, 24  
 marked T. 15 S. S. 18 on N. E.  
 R. 16 E. S. 19 on S. E.

R 15 E. S. 24 on S. W and  
 S. 13 on N. W. faces, with  
 3 notches on N. & S. edges, dug  
 pits 18 x 18 x 12<sup>ins</sup> in each  
 Sec.  $5\frac{1}{2}$  ft dist, from post

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

Land gently rolling  
Soil 1<sup>st</sup> & 2<sup>nd</sup> rates  
No timber

North bet. Secs, 13 & 18

Co. Va. 12° 15' E.

Land slopes gently to north  
40.00 Set Sandstone 12 x 10 x 8 ins.  
8 ins. in ground for 1/4 Secs  
Cor. marked 1/4 on N. face,  
dug pits 18 x 18 x 12 ins. N. &  
S. of Stone 5 1/2 ft dist. and  
raised a mound of earth 1 1/2  
ft. high, 3 1/2 ft base along side.  
80.00 Set a Sandstone 15 x 10 x 7 ins



Sp. 15 S. Range 16 E.  
 cor. to Secs 7, 12, 13 & 18

10 ins. in ground for ~~1/4~~ Sec. Cor.  
 mkd. 4 notches on S. and 2  
 notches on N. edges, dug pits  
 $18 \times 18 \times 12$  ins in each section,  
 $5\frac{1}{2}$  ft. dist  
 and raised a mound of  
 earth 2 ft high,  $4\frac{1}{2}$  ft base  
 along side.

Land gently rolling  
 Soil 2<sup>nd</sup> rate

In timber.

North bet. Secs. 7 & 12  
 Va.  $12^{\circ} 15' E.$

40.00 Set a sandstone  $12 \times 10 \times 8$  ins  
 8 ins. in the ground for  $\frac{1}{4}$   
 Sec. Cor. mkd.  $\frac{1}{4}$  on N. face,  
 dug pits  $18 \times 18 \times 12$  ins N. & S.  
 of  $\frac{1}{4}$  stone  $5\frac{1}{2}$  ft dist, and



West Boundary of  
 raised a mound of earth  
 2 ft high  $3\frac{1}{2}$  ft base  
 along side.

A Mesquite 14 ins. diam.  
 bears East 27 Ets. Mk'd. T. 15 S.  
 R. 16 E. S. 7 B.T.

42.70 Road bears Westerty, to Tucson  
 61.00 Brow of mesa, and descend 15 ft.  
 into Pantano Wash bottoms.

80.00 Set a Sandstone  $18 \times 12 \times 8$  <sup>ins</sup>  
 $12$  <sup>ins</sup> in the ground for Cor.  
 to Secs. 6, 7, 8 & 12, marked  
 with 5 notches on S. end 1  
 notch on N. edges, dug pits  
 $18 \times 18 \times 12$  ins. in each Sec.  
 $5\frac{1}{2}$  ft dist, and raised a  
 mound of earth 2 ft high  
 $4\frac{1}{2}$  ft base alongside.

Land descends gently north

Tp. 15 S. Range 16 E.

Soil 2<sup>nd</sup> rate

No timber, but some few scattered mesquites.

North bet. Secs. 1 & 6

W. 12° 15' E.

- 7.00 Entire dense brush & undergrowth.  
with broken ground
- 21.70 To bottoms of Pomtano Wash
- 34.20 Left bank of Pomtano Wash  
4 ft. deep, course N. W.
- 38.00 Right bank of Pomtano Wash
- 40.00 Set sandstone 15 x 12 x 8 ins.  
10 ins. in ground for 1/4 sec.  
Cor. marked 1/4 on N. face,  
dug pits 18 x 18 x 12 ins N. &  
S. of stone 5 1/2 ft dist, and  
raised mound of earth 1 1/2 ft

## West Boundary of

high  $3\frac{1}{2}$  ft base along side

47.50 Edge of Same Wash, course

N. westerly

68.00 Leave dense brush, and begin to ascend from bottoms, over hills and hollows.

70.80 Top of sharp point of ridge 40 ft high bears W.

73.70 Small dry wash, drains S. W.

80.00 Set a Sandstone  $12 \times 10 \times 7$  in 8 ins. in ground for cor. to Sec. 14 & 15 S., Ranges 15 & 16 E. marked with 6 notches on each edge, dug pits  $24 \times 18 \times 12$  ins. lengthwise on each line N. S. E. and W. of Stone 6 ft. dist. and raised a mound of earth  $2\frac{1}{2}$  ft high 5 ft base along side.



Sp. 15 S. R. 16 East

Land, 73.00 dense brush  
and mountainous.

Soil 3<sup>rd</sup> rate  
no timber.

General description.

The South western part of this Sp. is level or finely undulating, the Northern and eastern very mountainous and broken. The soil near the boundary line is 1<sup>st</sup> and Second rate, and is covered with grass good for pasturage. There is no timber, but some scattered Mesquites and Palo Verde in the bottoms.

Oct. 24. 1893



## North Boundary of

It is plainly evident that I cannot establish the North Boundary of this Township except the west portion of the same, as the line would pass along the Pincon Mts. near the Summit, at an elevation of about 7000 feet above the Sea, said mountains being very broken, precipitous and impracticable. I therefore proceed to survey as much of said north boundary as I can, running a line east from the corner last established.

From Cor. to Sp. 14 and 15  
South, Ranges 15 and 16 East

Sp. 15 South Range 16 East.

Run East on a true line bet.  
Secs. 6 and 31.

Wa. 12° 15' E.

Ascending along ridge of Rincon mt.

6.70 Small wash drains westerly

13.70 Small wash, drains S. 80° W.

19.60 Top of ascent 100 ft high bears  
N. 80° W. Entire dense brush

29.64 Set sand stone 15 x 10 x 8 ins. 10  
ins. in ground for 1/4 sec. Cor.  
Mkd. 1/4 on N. face, dug pits  
18 x 18 x 12 ins. E. & W. of stone  
5 1/2 ft dist, and raised a  
mnd. of earth 1 1/2 ft high, 3 1/2  
ft. base alongside

79.64 Set granite 24 x 10 x 8 ins. 18 ins.  
in ground for cor. to Secs. 5. 6. 31  
32, mkd. 1 notch on W. and 5  
notches on E. edges, ~~Pits in place~~  
and Raised mound of

## North Boundary of

Stone  $1\frac{1}{2}$  ft high  $3\frac{1}{2}$  ft base  
alongside. Pits impracticable.

Land mountainous

Soil 5<sup>th</sup> rate, stony & gravelly  
No timber, but much mesquites  
and Palo Verdes.

East on a true line bet. S. 5532  
Va.  $12^{\circ} 15' E.$

Along and ascending ridge  
of Pincen Mountain.

- 0.00 Wash, drains South
- 34.00 Top of small peak on ridge.  
Descent steeply W
- 40.00 Set limstone  $15 \times 11 \times 6$  in  
Md. of Stone, for  $\frac{1}{4}$  sec. Cor.  
Mkd.  $\frac{1}{4}$  on N. face, and  
raised Md. of Stone alongside.



Sp. 15 S. Range 16 East.

57.00 pits impracticable. Thinner  
along level ridge of mountain.  
Wash, drains S. W. Ascend ~~down~~  
steeply, over very rough and  
broken face of Pincon Mountain.

80.00 Set granite 24 x 10 x 8 ins. in a  
rod. of stone, for cor. to Secs.  
4, 5, 32, 33, marked with 2  
notches on W. and 4 notches on  
East edges, and raised a  
mound of stone 1/2 ft high  
2 ft base alongside. Pits  
impracticable.

Land mountainous

In soil.

No timber, but some Palo  
Verdes and mesquites.  
Mountainous dr. or chs.

## North Boundary of

I find it impracticable to continue this line any farther East, on account of the high, precipitous and broken Mts. impracticable to survey and therefore abandon the line east from this point.

October 25<sup>th</sup> 1893.

For General description of this Township see end of Subdivision Notes.

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Tp. 15 S. Range 16 East.



## West Boundary of

Oct. 31<sup>st</sup> 1893.

From the Standard corner to  
Sp. 15 S. Ranges 16 & 17 East 1  
run

North between Secs. 31 & 36

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

30.40 Wash, runs N. W.

40.00 Set palo verde post 4 ft long  
4 ins. sq. with mkd. Stone 12<sup>in</sup>  
in the ground for  $\frac{1}{4}$  Sec. Cor.  
Marked  $\frac{1}{4}$  S. on W. face, dug  
Pits 18 x 18 x 12 ins. N. & S. 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

55.00 Wash, course N. W.

80.00 Set palo verde post 4 ft long  
4 ins. square, with mkd. Stone  
12 ins. in the ground for Cor. to

Sp. 15 South R. 17 East

Acres. 25, 30, 31, 36, marked

F. 15 S. S. 30 in N. E.

R. 17 E. S. 31 on S. E.

R. 16 E. S. 36 on S. W and

S. 25 on N. W. faces, with one notch on S. and 5 notches on N.

edges; dug pits 18 x 18 x 12 ins.

in each sec, 5 1/2 ft dist, and

raised mound of earth 2 ft

high 4 1/2 ft base around post.

Land rolling, & descends N.

Soil 2<sup>nd</sup> rate, sandy

No timber

North bet. Secs. 25 and 30

N. 12° 15' E.

13.00 Wash, course N. W.

37.95 Wash, course N. W.

## West Boundary of

40.00 Set a granite  $16 \times 12 \times 8$  ins  
 11 ins. in the ground for  $\frac{1}{4}$  sec  
 Cor. Mkd.  $\frac{1}{4}$  on W. side face,  
 and raised a mound of earth  
 $1\frac{1}{2}$  ft high  $3\frac{1}{2}$  ft base alongside.  
 pits impracticable.

80.00 Set a granite  $15 \times 11 \times 8$  ins.  $10$  in  
 in the ground for cor. to Sec.  
 19, 20, 24, 25, 30 marked with 2  
 notches on S. and 4 notches  
 on N. edges, dug pits  $18 \times 18$   
 $\times 12$  ins in each Sec.  $5\frac{1}{2}$  ft.  
 dist. and raised a mound  
 of earth 2 ft high  $4\frac{1}{2}$  ft base  
 alongside.

Land rolling, descends N.

Soil 2<sup>nd</sup> rate

No timber



F. 15 S. R. 17 East pages 23 & 24  
are blank

North bet. Secs. 19 & 24

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

Land descends, in dense brush.

- 19.15 Wash, course N. W.
- 20.75 Wash, course N. W.
- 28.50 Wash, course N. W.
- 40.00 Set a granite  $12 \times 10 \times 8$ , 8 ins  
in the ground for  $\frac{1}{4}$  Sec. cor.  
mkd.  $\frac{1}{4}$  on W. face, dig pits  
 $18 \times 18 \times 12$  ins N. & S. of stone  $5\frac{1}{2}$   
ft. dist. and raised mound  
of earth  $1\frac{1}{2}$  ft high  $3\frac{1}{2}$  ft  
base alongside
- 45.00 Leave dense brush
- 80.00 Set a granite  $15 \times 10 \times 7$  ins,  $10$  ins  
in ground for cor. to Secs. 13, 18  
19 & 24 marked with 3 notches  
on S. and 3 notches on N. edges,  
dig pits  $18 \times 18 \times 12$  ins in each

## West Boundary of

Sec. 5 1/2 ft. dist. end raised  
mound of earth 2 ft high 4 1/2  
ft. base alongside.

Land rolling  
Soil 2<sup>nd</sup> rate

No timber

45.00 chs. dense brush

North bet. Secs. 13 & 18

- Va. 12° 15' E.
- 10.00 In dense brush
- 15.95 Wash, course N. 20° W.
- 20.00 Wash, course N. 35° W.
- 28.50 Wash, course N. 45° W.
- 29.10 Road. bears N. 80° W.
- 34.00 Limestone Knoll (top) 50 ft  
high 10 chs. long E. & W.  
Copper ore in ledge about  
3 chs. east. Descent very  
abruptly.

J. S. R. Co.

- 40.00 Set granite  $16 \times 14 \times 12$  <sup>ins</sup> 11 ins. in the ground for  $\frac{1}{4}$  sec. cor, mkd.  $\frac{1}{4}$  on N. face, dug pits  $18 \times 18 \times 12$  <sup>ins</sup> N. & S. of line  $5\frac{1}{2}$  ft dist. and raised a mound of earth  $1\frac{1}{2}$  ft high  $3\frac{1}{2}$  ft. base along side.
- 40.40 To South fence of cattle corral, bears E. & W.
- 41.60 Leave corral on N. side. A dwelling house about 3 Chs. E.
- 42.00 Enter dense brush.
- 46.50 To center of Pincon Wash, course nearly west, about 2 Chs. wide. Small stream of water, 3 ft wide 2 in. deep. but drift wood shows a stream 8 ft deep and 3 Chs wide in rainy season. Ash and Sycamores along stream, and dense brush.
- 47.00 Leave dense brush; and ascend



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## West Boundary of

S. Slope of Pincen Int.

54.00 Wash, course S. W.

65.00 Wash, course S. W.

80.00 Set a granite  $16 \times 12 \times 10$  ins.  
11<sup>ins</sup> in ground for Cor. to Secs.7, 12, 13, 18 marked 4 notches  
on S. and 2 notches on N. edges.  
dug pits  $18 \times 18 \times 12$  ins in each  
Sec.  $5\frac{1}{2}$  ft. dist. and raised  
2 ft high  $4\frac{1}{2}$  ft. base  
mound of earth alongside.

Land broken, latter 33.00 chs.

mountainous.

Soil 3<sup>rd</sup> rateNo timber, except a little  
strip along Pincen Wash

33.00 chs Mountainous and

37.00 chs. dense brush

Sp. 15 S. Range 17 East. 28

North bet. Sec. 7 & 12

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

- 5.00 Leave dense brush
- 9.00 Small wash, course S. E.
- 20.00 Small wash, course S. E.
- 28.00 Big wash, 50 yds. wide, 20 ft deep, course S. E.
- 40.00 Set granite  $1.5 \times 12 \times 9$  in  $10$  in in ground for  $\frac{1}{4}$  sec. cov. in a Md. of Stone, marked  $\frac{1}{4}$  on W. face, and raised mound of Stones  $1\frac{1}{2}$  ft high 2 ft base alongside. Pits impracticable. Ascend steep and rough mountain.
- 80.00 Set stone  $18 \times 10 \times 6$  in in mound of Stones for cov. to Secs. 11, 6, 7, 12, Mked. 5 notches on S. and 1 notch on N. edges

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West Boundary of Sp.

and raised Mnd. of Stones  
 1 1/2 ft high 2 ft base along-  
 -side. Pits impracticable.

Land Mountainous

Soil 5<sup>th</sup> rate

In timber

North bet. Secs. 1 &amp; 6

Va. 12° 15' E.

Ascend rough mountain

40.00 Set granite 12 x 11 x 9 in in a

Mound of Stones for 1/4 Sec.

Cov. Mnd. 1/4 on W. face,

and raised Mound of Stones

1 1/2 ft. high 2 ft base along-  
 -side. Pits impracticable.

Land Mountainous 40 chs

Soil 5<sup>th</sup> rate



13 S. Range 17 East

No timber.

As Pincon Mountain N.  
of this cor. becomes very  
steep and rough, I abandon  
the line farther north as  
impracticable to survey.

Oct. 31<sup>st</sup> 1893

## General Description.

The land on each side of this line is nearly level or gently rolling until near the Pincen Wash bottoms, after which it becomes rough, broken and mountainous.

The south half of the Ips. are covered with good grass, with scattering Musquites and Palo Verdes. Along the Pincen Wash is a thin strip of Ash, Sycamore and Cottonwoods, and dense brush of Catclaw and other shrubs. Several families have homes in each Ip, and both

Should be subdivided. A  
vein of copper, blue carbon-  
ate is about 3 Chs. east of  
line, near center of Sec. 18  
R. 17 E.

James H. Martineau  
U. S. Dep. Surveyor.

Oct. 31, 1893