

correct

— 1656 Copies
Plate No 16

See Index

Field Notes

OF THE SURVEY OF BOOK 1656

1656

First Aux. Meridian
N. through townships
21. and 22. N.
Bet. R's 4 & 5 W

— 1656 —

BOOK 1656

Gila and Salt River Base and Meridian

ARIZONA.

By J. T. Smith D. S.

Under contract dated July 24 1873.

Survey commenced Oct. 19th 1873.

Survey completed Oct. 19th 1873.

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First Auxiliary ~~XXXX~~
 Meridian West through
 Townships 21 + 22 North
 Through Tp. 21 Page 1
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1 21 6	1 10 6
12 19 7	12 8 7
<i>S. 22 N.</i> 13 18 18	<i>S. 21 N.</i> 13 6 18
<i>R. 5 W.</i> 24 16 19	<i>R. 5 W.</i> 24 4 19
25 14 30	25 3 30
36 13 31	36 1 31

1656

Survey begun, Oct, 19th 1883
.. completed " " .

For Preliminary notes
see first book, (No. 1)
of Survey, - also description
of instrument

First Aux. Meridian W.
through Tps 21. N, R's 4 & 5 W.

chains

From the Standard cor,
to Tps 21. N, R's. 4 & 5 W,
previously established
by me, I run,

N. bet, Sec's 31 & 36

var, $14^{\circ} 05' E$,

Ascend gradually

40.00

deposited marked stone
12 ins. in the ground for
 $\frac{1}{4}$ sec. cor. dug pits $18 \times 18 \times$
12 ins. N. & S. of same,
 $5\frac{1}{2}$ ft. dist. & raised a
mound of earth $1\frac{1}{2}$ ft
high, $3\frac{1}{2}$ ft. base over it.
In N. pit drove a stake
2 ft. long, 2 ins. square,
12 ins. in the ground,
marked $\frac{1}{4}$ on W. face.

80.00

deposited marked stone

First Aux. Meridian W.
through obs. 21, N, R's. 4 + 5 W.
chain.

12 ins. in the ground
for cor. to obs. 25, 30, 31 +
36. dug pit - 18 x 18 x 12 ins.
in each obs. 5½ ft. dist.
& raised a mound of
earth 2 ft. high, 4½ ft.
base over it. In S. E. pit
drove a stake 2 ins. square
2 ft. long, 12 ins. in the
ground, marked
S. 21, N, S. 30. on N. E.
R. 4, W. S. 31. on S. E.
S. 36. on S. W. and
S. 25 on N. W. faces, with
5 nolets on N. & 1 nolet
on S. edges.

Surface sloping gently
to the S.

Soil 1st rate

First Aux. Meridian W.
 through Ops 21, N, Rs. 4 & 5, W.
 chains.

Good Grass

N. bet. sec's 25 & 30

var. $14^{\circ} 05' E$.

4000

Acres gradually
 deposited marked stone
 12 ins. in the ground
 for $\frac{1}{4}$ sec. cor. dug pits
 $18 \times 18 \times 12$ ins. N. & S. of
 stone, $5\frac{1}{2}$ ft. dist., & raised
 a mound of earth $1\frac{1}{2}$
 ft. high, $3\frac{1}{2}$ ft. base over it.
 In N. pit drove a stake
 2 ft. long 2 ins. square,
 12 ins. in the ground,
 marked $\frac{1}{4}$ on W. face.

8000

Set a sandstone $16 \times 12 \times$
 4 ins., 11 ins. in the ground
 for cor. to sec's 19, 24, 25 &

First Aux. Meridian W.
 through the 21, N. R's, 4, & 5. W.
 chains,

30, marked with 4 notches
 on N. & 2 notches on S,
 edges, dug pits - 18 x 18 x 12
 ins. in each one, 5½ ft.
 dist., & raised a mound
 of earth 2 ft. high 4½ ft.,
 base along side
 surface slopes gently
 to S.

Soil 1st rate
 Grass Good

N. bet. sec's 19 & 24,
 var. 14° 05' E,

Ascending

1000 Begin to ascend moun-
 tain

2100 Enter dense cedar &
 buck brush.

First Aux. Meridian W.
through sps 21, N, R's. 4 & 5, W.
chains,

4000

Set a sandstone $20 \times 8 \times$
8 ins, 15 ins, in the
ground for $\frac{1}{4}$ sec. cor,
marked $\frac{1}{4}$ on W. face,
dug pits $18 \times 18 \times 12$ ins,
N. & S. of stone $5\frac{1}{2}$ ft,
dist, & raised a mound
of earth $1\frac{1}{2}$ ft. high $3\frac{1}{2}$
ft. base along side.

76.72

Dry wash 20 lks. wide
course S, W.

80.00

Set a sandstone 24×12
 $\times 8$ ins, 18 ins, in the
ground for cor. to sec's
13, 18, 19 & 24, marked
with ~~3~~ ^{a mound of stone} notches on N.
& S. edges, from which
a Piton 8 ins. dia. brs,

First asc. Meridian W,
 through the 21, N, R's, 4, & 5. W,
 chains,

S. 68° W, 60 lks, marked
 S. 21, N, R. 5 W, S. 24, B. 9,
 A Piton 6 ins, dia, 60,
 N. 31° W, 12 lks, marked.
 S. 21, N, R. 5, W, S. 13, B. 9,
 No other trees within limits
 Surface mountainous
 Soil 4th val
 dense undergrowth
 No. Grass

N. bet. sec. 13 & 18,
 var. 14° 05' 6"

Ascending S. W. slope
 of mountain

4000

At a sandstone 24 x 18 x
 3 ins, 18 ins, in the ground
 for $\frac{1}{4}$ sec. Cor, marked
 $\frac{1}{4}$ on W. face, & raised

7,
 First aux. Meridian W,
 through Sp. 21, N, R's, 4 & 5 W,
 chains.

a mound of stone
 alongside, from which
 a Piton 4 ins dia, br. S. 87° E,
 15 lbs, marked, $\frac{1}{4}$ S, B. P.
 deep canyon on W, &
 high cliff on E,
 no other trees within limits

5000
 at a table stone
 15 x 18 x 16 ins, 12 ins, in
 the ground for ev. 15
 sec, 7, 12, 13, & 18, marked
 with 2 notches on N, &
 4 notches on S, edges
 raised a mound of
 stone alongside.

Pits impracticable.
 on top of table mountain
 surface mountainous
 Soil 4" rate

First Aux. Meridian W,
 through Tps' 21, N, R's, 4 & 5, W,
 chains.

No Grass

Scattering cedar & piñon,
 ~~~~~

N. bet. sec's, 7 & 12,  
 bar, 13° 27' E,

- 400 Descend into cañon  
 1360 Centre of cañon 160 ft,  
 deep, course S, W,  
 4000 Set a sandstone 16x12x  
 7 ins, 8 ins, in the ground  
 for  $\frac{1}{4}$  sec. cor, marked  $\frac{1}{4}$ ,  
 on W. face, & raised a  
 mound of stone along-  
 side. Pits impracticable  
 53,50 Top of mountain,  
 top. E. & W,  
 8000 Set a sandstone 16x  
 12x4 ins, 11 ins, in the  
 ground for cor, to sec's,

9.  
 First Aux. Meridian W.  
 through Sp's 21, N, - R's, 4 & 5 W  
 chains

1, 6, 7, & 12, marked with  
 1, notches on N, & 5 notches  
 on S, edges, from which  
 A cedar 18 ins, dia, brs, N, 45°  
 E, 4 lks, marked

S, 21, N, R, 4, W, S, 6, B, T,  
 A cedar 12 ins, dia, brs, S,  
 45° E, 4 lks, marked,

S, 21, N, R, 4, W, S, 7, B, T,  
 A cedar 10 ins, dia, brs, S, 45°  
 W, 3 lks, marked

S, 21, N, R, 5, W, S, 12, B, T,  
 A cedar 8 ins, dia, brs, N, 45°  
 W, 4 lks, marked

S, 21, N, R, 5, W, S, 1, B, T,

Surface mountainous  
 Grass fair last 1/2 mile  
 Soil 3<sup>rd</sup> val

Dense Cedar

First Ave, Meridian W,  
through sps 21, N, R's, 4 & 5, W,  
chains.

N. lat, sec's, 1, & 6,  
var, 14° E,

descending

4,00 Dry wash 10 lks, wide  
course N. E. -

Ascend N. E. slope through  
dense cedar brush

3000 Descend N. W. slope

37,58 Dry wash, 15 lks, wide  
course N. E. - Ascend

4000 Hit a sandstone 36 x 14  
x 4 ins, 27 ins, in the

ground for  $\frac{1}{4}$  sec, cor,  
marked  $\frac{1}{4}$  on W. face, &  
raised a mound of  
stone alongside, pits  
impracticable,

52,00 Top of ridge hrs, N. E. & S. W.  
Descend N. W. slope

First Ave, Meridian W,  
 through sps 21, N, R's 4 & 5 W,  
 chains,

72.40 Dry wash, 14 lks. wide  
 course N, W,

8000 Put a sandstone 20x  
 10x8 ins, 15 ins, in the  
 ground for cor. to sps  
 21 & 22, N, R's 4 & 5  
 W, marked with 6  
 notches on each edge  
 & raised a mound of  
 stone alongside,  
 from which a cedar  
 12 ins dia, brs, N, 60° E 73  
 links marked

- S. 22° N, R, 4, W, S, 31, B, S,
- A Pinon 14 ins dia, brs,  
 S, 88° E, 44 lks, marked  
 S, 21 N, R, 4, W, S, 6, B, S,
- A Pinon 4 ins dia, brs,  
 S, 8° W, 4 lks, marked

First Ave, Meridian W,  
through the 21<sup>st</sup>, R's, 4 & 5, W.

P. 21, N, R, 5, W, S, 1, B, 9.  
No other trees within  
limits -  
Surface mountainous  
Soil 3<sup>rd</sup> rate  
dense cedar brush

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First Ave, Meridian W,  
through Tps 22, N. Rs. 4 & 5, W.  
chains.

- From the cor. to Tps 21  
& 22 N, Rs 4 & 5 W, just  
established by me, I  
run N. bet. sec. 31 & 36,  
<sup>214 05 0</sup>
- 7.00 Ascend over east end  
of mountain,
- 21.00 Top of mountain, brs,  
N. W. & S. E,  
descend.
- 40.00 Set a sandstone 18x12  
x6 ins, 12 ins, in the  
ground for  $\frac{1}{4}$  sec. cor,  
marked  $\frac{1}{4}$  on W. face &  
~~raised a mound of~~  
stones alongside, from  
which a cedar 6 ins. dia,  
brs. S. 40° W, 80 lbs,  
marked  $\frac{1}{4}$  S, B, T,  
A cedar 8 ins. dia. brs. S. 50° E.



First Ave. Meridian W.  
 through the 22, N, R's, 4, 5, W  
 chains

6300 markers  $\frac{1}{4}$  S, B, T,  
 6800 Arrays 20 lks, wide,  
 course N, E, - ascend  
 8000 Set a Malpais  $14 \times 13 \times$   
 5 ins, 9 ins, in the ground  
 for ev. to Re's 25, 30, 31 +  
 36, marked with 5 nolets  
 on N, & 1 nolet on S,  
 edges, & raised a  
 mound of stone along  
 side, pits unpracticable,  
 Surface mountainous  
 Soil 3<sup>rd</sup> rate. Grass fair.

N. bet. Re's 25 & 30,  
 bar. 14 05' E.

Ascending  
 2700 Top of mountain, top,  
 E & W, descend.

First Ave. Meridian W.

through the 22. N. R. 4 & 5 W.  
chains,

marked  $\frac{1}{4}$  S. B.  $\odot$ ,

8000 Set a marker about  
18x14x5 ins, 12 ins, in  
the ground for cor. to  
sec's 13, 18, 19 & 24,

marked with 3 nolets

on N. & S. edges, dug  
pits 18x18x12 ins, in  
each sec,  $5\frac{1}{2}$  ft, dist,

& raised a mound  
of earth 2 ft, high  $4\frac{1}{2}$   
ft, base alongside,

from which a cedar  
tree, dia. br, S.  $68^{\circ}$  W,

104 links, marked  
S. 22. R. 5. W. S. 24. B.  $\odot$ ,

A juniper 7 ins, dia. br,  
N.  $46^{\circ}$  E 79 lks, marked

S. 22. N. R. 4. W. S. 18. B.  $\odot$ ,

First Aux. Meridian W.  
through sps 22, N, R's, 4 & 5, W.  
chains.

No other trees within limits,  
Surface mountainous  
Soil 2<sup>nd</sup> & 3<sup>rd</sup> val-  
Kluss Juniper & Cedar

N. bet. sec's, 13 & 18  
bet. 14° 06' E,

over mountain ridges

4000 At a Malpais blow 16 x  
12 x 8 ins, 11 ins, in the  
ground for  $\frac{1}{4}$  sec. cor,  
marked  $\frac{1}{4}$  on W. face &  
raised a mound of  
glow alongside.  
Pits impracticable

5000 Klussend

6002 A., P., R., R., trans. S. 87° E,  
& N. 87° W.

6200 Ravine tra S. 86° W.

First Aux. Meridian W.  
through sps 22, N. Rs 4 & 5, W.

Chains.

71.00

Top of ridge, to, N.E. & S.W.

80.00

Set a malpais stone  
12 x 8 x 6 ins, 8 ins, in the  
ground for cor. to sec,  
7, 12, 13 & 18, marked  
with 2 noletus on N, &  
4 noletus on S, edges, &  
raised a mound of  
stone alongside.

Pits impracticable  
Surface mountainous

Soil 2<sup>nd</sup> rate

Grass Good

Scattering cedar

N. bet, sec's 7 & 12,

bar, 14° 05' E,

10.00

Ascend

40.00

Set a malpais stone

First Quad, Meridian W,  
through sps 22, N, R, 4 & 5 W,  
Main

16 x 12 x 5 ins, 11 ins, in  
the ground for  $\frac{1}{4}$  sec. cor,  
marked  $\frac{1}{4}$  on W. face, &  
raised a mound of  
stone alongside.  
Pits impracticable.

6500 Top of mountain ridge

7000 Ascend

7200 Ravine, course W.

Ascend

8000 Set a math air stone  
24 x 10 x 8 ins, 18 ins, in  
the ground for cor. to sps,  
1, 6, 7 & 12, marked with  
1 notch on N, & 5 notches  
on S. edges, & raised  
a mound of stone  
alongside.  
Pits impracticable.

First Ave, Meridian W,  
through the 22, N. R's 4 & 5, W  
chains.

Surface mountainous  
Dirt 2<sup>nd</sup> rail

Scattering Cedar and  
Juniper,  
Grass 'Good



N. lat. sec. 1 & 6,  
bar, 14° 08' E,

1300

Ascending to N,  
Ravine course S, W,  
Ascend S, E. slope of  
mountain

4000

Set a malpais stone  
17 x 13 x 6 ins, 12 ins, in  
the ground for  $\frac{1}{4}$  sec,  
cor, marked  $\frac{1}{4}$  on W,  
face, & raised a mound  
of stone alongside,  
Pits impracticable

First Ave, Meridian W,  
through Tps 22, N, Rs, 4 & 5, W,

hairs  
8000

Set a mapais stone 24x  
20x9 ins, 18 ins, in the ground  
for cor. to Tps 22 & 23, N,

Rs, 4 & 5, W, marked  
with 6 nolets on each  
edge, & raised a mound  
of stone alongside,  
Pts impracticable

Surface mountainous

Dail 2<sup>nd</sup> rail

Scattering cedar and  
Juniper.

Good Grass

Oct, 19<sup>th</sup>, 1883,

Examined & tested in-  
strument & solar appa-  
ratus today, & found  
them correct.

For final notes, see  
last book, (No 28) of  
Quarry.



## U. S. Surveyor General's Office,

Tucson, Arizona, ..... 188

The foregoing Field Notes of the Survey of the

First Aux. Meridian West  
through Townships 21 and 22  
North

Of the Gila and Salt River Base and Meridian, Arizona, executed by J. J. Smith U. S.

Deputy Surveyor, under his contract of the 24<sup>th</sup>

day of July, 1883, having been

critically examined and the necessary corrections and explanations made, the said Field Notes and the surveys they describe are hereby approved.

Royce Johnson  
Surveyor General.