

pieces  
marked

1672

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See Index  
**Field Notes**

OF THE SURVEY OF  
*This* BOOK 1672

Retracement of the  
5th Standard Parallel  
N. through Range  
4 and 5 West-

BOOK 1672

1472

Gila and Salt River Base and Meridian

**ARIZONA.**

By *J. T. Smith* D.S.

Under contract dated *July 24th 1873*

Survey commenced *Sept. 14th 1873*

Survey completed *Sept. 26th 1873*

1672

BOOK 1672

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Range 4 N. pages 1 to 13

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BOOK 1672

S. 21 N., R. 4 E.

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31	32	33	34	35	36
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6	5	4	3	2	1

S. 21 N., R. 5 E.

For description of  
instruments and  
preliminary tables  
see book No 1

Survey commenced  
September 19th 1803  
Survey completed  
September 19th 1803

# Retracing 5th Standard Lines

From the Standard  
Meridian Cor. to  
Tps. 21 N. Rs. 1 E. and 1 W.  
recently re-established  
by me. I run that  
on a random line.  
With a variation of  
 $135^{\circ} 5'$  E. setting  
temporary "u" and  
Su - Cors. at  
each 40 and 80 ch.  
and at 78 miles  
I make a diligent  
search for a Cor. but  
find none and  
as the topography as  
described in the old  
note does not agree  
with the country  
I continue the line

Parallel N. through R. 4 N.

Chain

Went on a true line after  
 setting a walpait rock  
 16 x 14 x 6 ins. 11 ins. in  
 the ground for ~~start~~ loc.  
 to Tps. 21 N. R. 3 and  
 4 N. marked S. C. with  
 6 notches on N. E. & N.  
 edges. and raised a  
 mound of stone  
 along side. Pits unpracticable  
 There I ran West on  
 a true line on the  
 South By. of Sec. 36  
 T. 20. N. 140 5' E.

170 Descend into partridge  
 creek cañon

7.00 Partridge creek 80 miles  
 with loc. N. N.

28.00 Partridge creek 85 miles  
 with loc. S. N.

Reboring 5th Standard  
Chairs

- 39.00 Partridge creek 78 lbs  
with <sup>stand</sup> loc. N.  
Not passing <sup>at</sup> <sup>any</sup> <sup>place</sup>
- 40.00 Set a malpais rock  
20x16x8 ins. 15 ins. in  
the ground for <sup>Standard</sup>  
Sec. loc. furnished  
S.C. 114 ~~at~~ on N. face.  
acid raised a mound  
of stone alongside.  
Pit's unpassable
- 41.00 around N.W. wall of  
cannon 300 ft. high
- 47.00 Top of Huff for N.W. & S.E.  
Not passing <sup>at</sup> <sup>any</sup> <sup>place</sup>
- 50.00 Set a malpais rock  
18x16x5 ins. 12 ins. in  
the ground for Standard  
loc. to Secs. 35 and 36  
marked S.C. with 1 notch  
on E. and 5 notches on  
N. edges. and raised a

Parallel N. through R. 4 N.  
Chains

mound of stone  
alongside. Pits impracticable  
from which a Juniper  
8 ins. in diam. brs. at 79° E.  
180 links dist. marked  
T. 21 N. R. 4 N. S. 36 B. T.  
No other trees within limits  
Surface mountainous  
Soil red. rot  
Dense juniper brush  
grass fair

Met on the S. Ry. of  
Sec. 35

Va. 140° 55' E.

17.17

Dry wash 20 links wide

Ho. N. N.  
not passing at Standard 4 S. Sec. 35

45.00

Set a sand stone 20x8x12  
ins. 15 ins. in the ground  
for Standard 4 S. Sec. 35.

Retaining 5th Standard  
Chamber

marked S.C. upon N.  
face, and raised a  
mound of stone alongside  
Cibola's impracticable

48.00

Dumped into Partridge  
creek cañon

62.00

Partridge creek rock  
with Sec. 27.

63.00

Across right bank of  
cañon

79.00

Top of the 157 ft. high  
rock of <sup>Sec. 24</sup> ~~Sec. 25~~ <sup>and Standard</sup> ~~Sec. 24~~

80.00

Set a <sup>Walrus</sup> rock  
20 x 12 x 6 ins. 15 ins. in  
the ground for extended  
Sec. 24 to Secs. 24 and 25  
marked S.C. with 2  
notches on E. and  
4 notches on N. edges.  
and raised a  
mound of stone alongside



Paradise A. through R. 4 St.  
 Chain

Rib impracticable  
 Surface mountainous  
 Soil red. sub  
 Scattering boulders last  
 half mile  
 grass fair

Went on the S. Ry. of  
 Sec. 34

- 10.00 Down into partridge  
 creek cañon
- 28.00 Partridge creek 80 links  
 wide Co. S. St.
- 34.15 Partridge creek 100 Ch. wide  
 Co. S. St. and around  
 right wall of cañon  
 perpendicular wall pair  
 rock 180 ft. high to  
 N.E. and S. St.

Recovering 5th Standard  
Chairs

That following are Standard 4 Sec. Co.

4000

Set a walpoleis rock  
14x11x5 ins. 9 ins. in  
the ground for Standard  
4 Sec. top marked  
S.C. "4 on N. face  
and raised a mound  
of stone along side.

Pit's unpredictable

65.60

Dry wash 30 links  
west Sec. S.H.

That following are Standard Sec. Co.

8000

Set a walpoleis rock  
16x14x6 ins. 11 ins. in  
the ground for  
Standard Co. to  
Nos. 33 and 34 marked  
S.C. with 3 notches  
on E. and N. edges  
and raised a mound  
of stone along side.

Pit's unpredictable

Parallel St. through R. & N.  
 Chino

Surface mountainous  
 Soil Erd. rate  
 Good grass

Met on the S. E. of  
 Sec. 33

2.42 Va. 140 55-De.  
 Road to old Fork and  
 Chino valley frs. N.E.  
 and S.W.

26.00 Enter Chino valley frs.  
 N.W. and S.E.

45.00 <sup>with remaining old Standard 44 Sec for</sup>  
 Hit a malpais rock  
 20 x 8 x 6 ins. 15 ins. in  
 the ground for Standard  
 44. Sec. 40 marked  
 S.E. 44 on N. face.  
 dug pits 8 x 18 x 12  
 in. fr. and N. of stone  
 5 1/2 ft. chert sand

# Recovery 5th Standard Chairs

8000

raised a mound of earth 1 1/2 ft. high 3 1/2 ft. base along side.

Was Springfield Standard Sp. cor

Set a standard 20x17x8 ins. 15 ins. in the ground for Standard Cor. to

Days 22 and 23 marked S.C. with 4 notches on D. and 2 notches on the edge dug pits 18x18x12 ins.

N.E. and N. of stone 5 1/2 ft. dist and a raised a mound of earth 2 ft. high

4 1/2 ft. base along side Surface level

Soil 1st rate  
good grass

Parallel N. through R. 4 H.  
Chains

West on the S. E. of  
Sec. 32

4000 <sup>74.140 05° E</sup>  
was finding and Standard <sup>1/2</sup> Sec. Cor.

Set a metal post rock  
10x8x8 ins. 7 ins. in  
the ground for Standard  
44 Sec. Cor. marked  
S. 6. 140 on N. face  
~~and~~ dug pits 18x18x12  
ins. E. side of stone  
5 1/2 ft. dist. and  
raised a mound of  
earth 1 1/2 ft. high

3 1/2 ft. <sup>was finding and Standard</sup> <sup>1/2</sup> Sec. Cor.

8000 <sup>was finding and Standard</sup> <sup>1/2</sup> Sec. Cor.  
Exposed a marked stone  
12 ins. in the ground  
for Standard Cor. to  
Sec. 31 and 32 dug  
pits 18x18x12 ins. N.E. and  
S. of cor. 5 1/2 ft. dist.

Retaining 5th Standard  
Chairs

and raised a mound  
of earth 2 ft. high  
4 1/2 ft. from over it.  
In E. pit drove a  
stake 12 ins. sq. 2 ft. long  
12 ins. in the ground  
marked

S. 21 N. R. 4 N. S. C. on it.

S. 32 on E. and

S. 33 on N. face, with 5  
nails on E. and 1  
nail on N. surface.

Surface level

Soil 1st rate

Good grass

No timber

Next on the S. S. of  
Sec. 31

Va. 140 05' E.

Parallel N. through R. 4 & 7.  
Chains

4000

was founding at Standard 4 Sec. Cor.  
Cut a nail pair 18x8x7 ins.  
12 ins. in the ground for  
Standard 4<sup>th</sup> Sec. Cor.  
marked S.C. "4000 N. face  
dug pit 18x18x12 ins.  
E. and W. of stone 5 $\frac{1}{2}$   
ft. dist. and raised a  
mound of earth 7 $\frac{1}{2}$   
ft. high 3 $\frac{1}{2}$  ft. face  
along side.

8000

was founding at Standard 5<sup>th</sup> Cor.  
Cut a nail pair rock 13x8x6  
ins. 8 ins. in the ground  
for Standard 5<sup>th</sup> Cor. to  
Tps. 21 N. R. 4 and 5 W.  
marked with 6 notches  
on N, E and W. edges  
dug pits 24x18x12 ins.  
crosswise on each line  
N, E and W. of stone 6 ft.  
dist. and raised a

13  
 Rebaring 5th Standard  
 Chain N. through R. 4 H.

mound of earth  $9\frac{1}{2}$  ft.  
 high 5 ft. base alongside  
 Pacacho Creek trs. St. 130 10' E.  
 Surface level  
 Soil 1st rate  
 good grass



5th Standard Parallel cr. 1  
 Parallel N. through R. 5th.

From the Standard Cor.  
 to Sp. 21 N. Co. 4 and 5th.  
 spud: established by me,  
 D. J. West on the  
 N. Ry. of Sec. 36

31.00

Lagoon on dry bed of  
 Schis creek W. S.E.

40.00

<sup>two feet deep in all places and 2' Sec. 36</sup>  
 Set a walrus rock 16x14x11  
 ins. 11 ins. in the ground  
 for Standard 14 Sec. Cor.  
 marked S.C. 14 on N.  
 face, and raised a  
 mound of stone alongside

49.43

Road to cr. 1, and S.C.

52.00

Used gradually  
<sup>was 2 feet deep in all places and 2' Sec. 36</sup>

80.00

Set a sandstone 16x10x4  
 ins. 11 ins. in the ground  
 for Standard Cor. To

# Refracting 5th Standard Chain

Secs. 35 and 36 marked  
S.C. with 1 notch on  
E. and 5 notches on W.  
edges and raised a  
mound of ston along side  
Pit. Impracticable

Surface level  
Soil 1st rate

Good grass

West on the S. Co. of  
Sec. 35

Co. 140 05' E.

40.00

ascend  
sub-finding a standard 4 Sec per  
Set a malpas rock 10x  
8x7 ins. 7 ins. in the

ground for Standard  
114 Sec. W. marked  
S.C. 114 on E. face  
and raised a mound

Parallel N. through R. 5 St.  
Chains

of stone alongside.

Pipe, unprotruding

Set a post 4 ft. long  
4 in. diam. with  
marked stone 12 ins.  
in the ground for  
Standard No. to S. S.  
34 and 35 marked S.C.

2 in. N. 2 R. 5 and 6 on N. S.

35 on N. S. and

4 on N. face.

with 2 marks on E.

and 4 on N. face.

dig pits 18x18x2 ins.

N. E. face of post 5 1/2

ft. dist. and raised

a mound of earth

2 ft high 4 1/2 ft.

stone alongside.

Surfaces closer to the N. E.

Retracing 5th Standard  
Lanes

Soil End. rate  
good grass

West on the S. Edge of  
Sec. 34

Var. 140° 05' E.

Ascending

8.00  
40.00

Ascending more abruptly  
map 271/2 way off Stamp 20 Sec 34  
Set a limestone 16x12x4

ins. 11 ins. in the  
ground for Standard  
14 Sec. No. marked  
S.C. 14 on N. face,

and raised a  
mound of stone alongside  
Pike, unprotected.

42.00

Enter dense Juniper

8.00

and took fresh  
map 271/2 way off Stamp 20 Sec 34  
Set a limestone 18x17x8

ins. 12 ins. in the

Parallel N. through R. 5 N.  
Chain

ground for Standard  
Loc. to Sec. 33 and 34  
marked S. C. with 3  
notches on E. and N.  
edges. and raised a  
ground of stone alongside  
Pit unproductive  
from which a pine  
5 ins. in diam. frs. 1,740 E.  
18 links dist. marked  
S. 21 N. R. 5 N. S. 34 Q. 5.  
a pine 7 ins. in diam.  
frs. 1,780 N. 30 links  
dist. marked S. 21 N.  
R. 5 N. S. 33 Q. 5.  
No other trees within limits  
Surface almost smooth  
Soil 2nd rate  
Dense juniper and pine  
frs. 37 Ch.  
grass fair

# Revising 5th Standard Chain

West of the S. By. of  
Sec. 33

74.1405'E.

- 100 Top of N. end of mt.  
Thru along N. slope  
of same
- 300 Down N. W. slope
- 17.00 Dry wash 120 links  
Inside W. N.E. ascend
- 27.00 Dry wash W. N.E.  
near fire-jerry old Standard 1/2 Sec cor
- 40.00 Set a nail pair with  
20 x 18 x 6 in. 15 in. in the  
ground for Standard  
1/4 Sec. W. marked  
S. S. 1/4 at N. face  
and raised a mound  
of stone alongside.
- Pit imperceptible  
On top of mt. to S. W. S. E.  
near fire-jerry old Standard 5/8 Sec cor
- 80.00 Set a nail pair

Parallel N. through R. or N.  
Chains

rock 18x10x7 ins. 12 ins.  
in the ground for.  
Standard Cor. (to Secs.  
32 and 33 marked A. C.  
with 4 notches on E.  
and 2 notches on N. edge,  
and raised a mound of  
stone along side.

Pits impracticable  
from which a jumper  
4 ins. in diam. to S.  
N. 47° E. 14 links dist.  
marked S. 21 et. R. 5 N.  
S. 33. B. V.

A jumper 5 ins. in diam.  
to S. et. 45° N. 48 links  
dist. marked S. 21 et.  
R. 5 N. S. 32 B. V.

et. other trees within  
limits

Retracing 5th Standard  
Chains

Surface mountains  
S&S End. rate  
Dense Juniper and  
Pine brush  
Grass fair

Went to the S. by. of  
Sec. 32

No. 140 5<sup>th</sup> E.

3884

Dug mark 25 links wide  
flg. at 7h.

40.00

Small finding old standard 4 Sec. cor  
Set a limestone 18 113x3

ins. 12 ins. in the  
ground for standard 114

Sec. flg. marked  
S.C. 114 on N. face,

from which a Juniper  
8 ins. in diam. br.

N. 40° E, 43 links dist.  
marked S.C. 114 S.B.V.



Parallel N. through Range 5 N.  
Chain

4000

a Juniper 4 ins. in diam.  
T.S. Ch. 520 ft. 20 feet dist-  
marked No. 14 S.B. T.  
<sup>Prognathus at Standard Sec. Cir.</sup>  
Set a marker rock

16 x 12 x 8 inch. 11 ins. in  
the ground for Standard  
Loc. to Secs. 31 and 32  
marked S.B. with  
5 notches on E. and 1  
notch on W. edges.  
and raised a mound  
of stones alongside.

Site impracticable  
Surface mountainous  
Soil 3rd. rate  
Dense scrubby juniper  
Fair grass

Went on the S. By. of  
Sec. 31

# Revising 5th Standard Chairs

- Va. 140 55° E.
- 35.90 Dug out over mt. ridges  
Dry wash 20 mi. wide
- 4000 <sup>not identifying old Standard Sec. Cor</sup>  
Set a malpais rock  
16x12x8 ins. 11 ins. in  
the ground for. Standard  
14 Sec. Cor. marked  
S.E., 14 on N. face,  
and raised a mound  
of stone alongside.
- 8000 <sup>not identifying old Standard Sec. Cor</sup>  
Set a malpais rock  
20x12x8 ins. 15 ins  
in the ground for. Stand-  
ard Sec. to Sps. 21 &  
25, 5 and 6 N. marked  
S.E. with 6 notches  
on N. E. and N. edges,  
dug pits 24x18x12

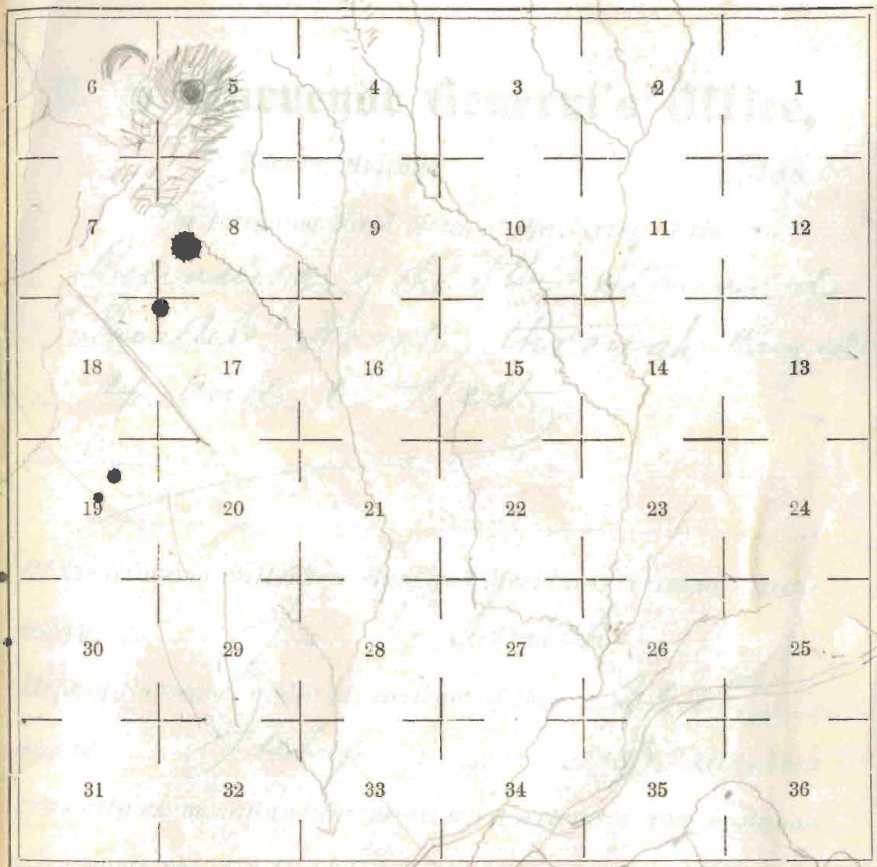
Parallel N. through Range 5 N.  
Chain

ins. otherwise on each  
line N. E. and N. of  
stone 6 ft. dick. and  
raised a mound of  
earth 2 1/2 ft. high  
5 ft. base along side  
Linnæus mountains  
Soil rocky 2d. rate  
Scattered Juniper  
and Pinon bush  
good grass

I carefully examined the  
adjustments of my  
Solar Transit. to see  
particularly the latitude  
and measuring apparatus  
and found them correct  
September 19th 1813.

For final outline see  
Proof Chs 28

Township 21 N Range 4 West M.



U. S. Surveyor General's Office,

Tucson, Arizona, ..... 188

The foregoing Field Notes of the Survey of the

Retracing of the 5<sup>th</sup> Standard  
Parallel North, through Ranges  
4 and 5 West

Of the Gila and Salt River Base and Meridian, Arizona, execu-  
ted by ..... J. J. Smith

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

day of ..... July ..... 1883, having been

critically examined and the necessary corrections and explana-  
tions made, the said Field Notes and the surveys they describe

are hereby approved

Robert Johnson  
Surveyor General.