

BOOK 1248

No. 1248

Book No. 8.

See Index
Field Notes

OF THE SURVEY OF

The 5th Standard Parallel
North. through Ranges
10. 11. 12 and 13 East.

1248

See Resurvey by Powers, thro. R 10E,
(in 1886) this package BOOK 1248

No. 1248

Gila and Salt River Base and Meridian

ARIZONA.

By Johnston B McLaughlin D. S.

Under contract dated May 16th 1883.

Survey commenced Aug. 6th 1883.

Survey completed Aug. 7th 1883.



Index

^{n.}
 6th Stanton through R 9^B from 3 - 4
 " " " " 10 " 4 - 11
 " " " " 11 " 11 - 17
 " " " " 12 " 18 - 25
 " " " " 13 " 26 - 33

R 9 E

R 10 E

31	32	33	34	35	36	31	32	33	34	35	36
1	-	-	-	-	3	4	5	6	7	9	10
6	5	4	3	2	1	6	5	4	3	2	1

R 11 E

R 12 E

31	32	33	34	35	36	31	32	33	34	35	36
11	12	13	14	15	16	18	19	20	22	23	24
6	5	4	3	2	1	6	5	4	3	2	1

R 13 E

31	32	33	34	35	36
26	27	28	29	30	31
6	5	4	3	2	1

S. Bdy. P. 21 N.

For description of instrument
and preliminary notes
see Book No 1.

Survey commenced, Aug 6th 1883
Survey completed, Aug 9th 1883.

5th Standard Parallel

Chains on S. By. T 21. N. R. 12¹³ & 13

From the temporary closing
 cor to Tps 20 N. Rs 12^{and 13}
 East just set by me.

I run

East on a random line on
 S By. Tps 20 N. Rs 12^{and 13}

E. setting temporary half-
 mile and mile corners at-
 each. 40^{and 80} chains and
 at 6 miles 20 chs and 50 chs

— after making careful
 search for 1 day and
 not finding any trace of
 old cor. — I return to
 the temporary closing cor
 to Tps 20 N. Rs 12^{and 13}
 & and

Run

West on a random line
 on S. By. T 21. N. Rs. 12^{through} 11.

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BOOK 1248

North on S. B'ing T. 21. N. R. 9 & 10 East ^{through} ^{cont 3} ^{12.6}

Chains

By 10 setting temporary half
mile and mile corners at each
40 and 80. Chains, and at
17 miles, 56 chains, 56 lbs.
after making careful search
for old Standard Cor & Tps
21 N. R's 9 ^{and} 10 East, and
not finding any trace of same
I continue West on S B'ing
sect 36 and ^{at} 20, 64 chains
^{700 chains} intersect ^{not} the closing Cor to
Tps 20 N. R's 9 ^{and} 10 East
which is.

A Post 4 vis square, set
firmly in the ground, marked
C. C. on S. Sec. 1 on N. and
S. 6. on ^{edges} E. with 6 notches
S. E. ^{and} N. edges, from which
A Pinondins deam bears N.
3 lbs dist. Marked as per in-
structions

5th Standard Parallel North through
R^s 9 East.

Chains A Pinon ~~6~~ ins diam in S. E. sec
43 lbs dist. Marked as per instructions
A Cedar 10 ins diam in S. W.
sec 39 lbs dist. marked as
per instructions.

From the closing con to
Tps 20 N. R^s 9 ^{and} 10 East.
Just-described above.
Iron.

East on a true line. on
S. B. see 26.

Pa 13° 48' 8"

20.04 Set a limestone, 18 x 17 x 4
ins 12 ins in the ground
for the Standard Con to
Tps 31. N. R^s 9 ^{and} 10 East
marked with S. C. with
6 notches on N. E. ^{and} marked

3th Standard Parallel, North
through Range. 10 East.

Chains and raised a mound of stone
alongside. Pits impracticable
Surface Rolling.
Soil. 8²⁰ silt.
Dense Cedar Brush

^{Standard}
From cor to S. 21 N.R. 9²⁰ 10 E. J. at 10⁰⁰
Dun East on a true line along
S. 31⁰⁰ See 31
Val 13⁰⁰ 48⁰⁰ E

40.00 Set a Limestone, 14 x 14 x 8 ins. 9 lbs.
Standard.
in the ground for ¹ See, Cor, marked ⁺ on N
face, dug pits 18 x 18 x 12 ins. E and N.
of stone 5 1/2 ft. dist. and raised a mound of earth
1 1/2 ft. high, 3 1/2 ft. base, alongside.

50.00 Set a Post 4 ft long 4 in's
square with marked stone
12 ins in the ground for the
Standard Cor to see 31⁰⁰ 32⁰⁰
marked. S. E. T 21 N.R. 10 E

5th Standard Parallel North
Chais

on N. S. 32, on E and S 31
on N. faces, with 6 notches
on E and 1 notch on Wedges
dug pits 18+18+12 ins N.P.
and 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.

Land Rolling
Sail. 8th note

Dense cedar brush

East true line along S By
see 32.

Val 13° 48' E

40.00 Set a Limestone 18+16+6
ins. 12 ins in the ground for 1st ^{Standard}
see cor marked S. C. 1/4 m
N. face, and raised a

through

along S. Big T, 21 N., R₁ 10 East
chains

mound of stone, alongside
Pit is impracticable.

45.84 Arroyo Co. N.

80.00 Set a Limestone 12+12+10 ins
dins in the ground, for the
stand, cor to see's 32nd & 33. marked
S.C. with 4 notches on
E. and 2 notches on W.
edges and raised a mound
of stone alongside. Pit is im-
practicable.

Land Rolling
Soil, 3rd rate, Dense Canada Brush

East on a true line on
S. Big T see 33.

Pa 13° 48' E

11.80 Arroyo Co N. B.

40.00 Set a Sandstone 16+14+6
ins. 11 ins in the ground for
stand 1/4 sec cor marked S.C 1/4 on N

5th Standard Parallel North
chains

face and raised a mound
of stone alongside. It's
impracticable.

\$9.70 Arroyo Co N. C.

80.00 Set a Limestone 20 x 8 x 6 ins
15 ins in the ground for the
Standard to see 33 ^{and} 34, marked.

S. C. with 3 notches on East

W edge and raised a mound
of stone alongside. It's im-
-practicable.

Land. Rolling

Soil. 8th Saw

Dense Cedar Bush

East via true line on S by
see 34.

Lat. 15° 21' E

The sudden change in variation

along S. Big T. 21 N. R. 10 E.

Chairs

is due to local attraction

40.00

Set a post 3 ft. long 3 ins. diam with marked
stone, 12 ins. in the ground for ^{Standard} 1/2 Sec, Cor.
marked ^{S.E.} S. on ^N face, also pts 18 x 18 x 12
ins. ⁸ and ^W of post 5 ft. dist. and raised
a mound of earth 1 1/2 ft. high 3 1/2 ft. base. around
post.

80.00

Set a Sandstone 18 + 14 + 6 ins
12 ins in the ground for the
^{Standard} corner to sec's 34 and 35 -
marked S.E. with 2 notches
on E and 4 notches on W
edges and raised a mound
of stone alongside. Pits
impassable.
Sand. Rolling
Soil, ~~and~~ ~~also~~.
House bed as 13 mark

5th Standard Parallel North

Chairs

East on a true line on S.
by sec 35.

Pa 13° 46' E

40.00 Set a ~~Living~~ ^{Standard} stone, 14 x 12 x 6 ins. 9 ins.
in the ground for ^{1/2} Sec. Cor, marked ^{1/2} on W
face, dug pits 18 x 18 x 12 ins. E[^] and W.
of stone 5 1/2 ft. dist. and raised a mound of earth
1 1/2 ft. high 3 1/2 ft. diam. alongside.

80.00 Set a Sandstone 20 + 14 + 8 ins
16 ins in the ground for the
Standard Cor to sec 36nd 36. marked
S. C. with 1 notch on E. and
3 notches on W. edges and raised
a mound of stone alongside
Pits impracticable.
Sand rolling soil.
Soil. 5th rate.
Veget. - Cedar, Bush

along S by T^y 21. N. through R. 10 East

Chains

East on a true line on S
By see 36.

Pa 13° 48' E

16.00 To edge of cañon and descend
Co N 30° E.

19.00 Bottom of cañon Co N 30° E.
and ascend.

23.10 Leave Cañon Co N. E.

40.00 Set a Limestone 20 + 10 + 6 ins
15 ins in the ground for ^{Standard} 14 sec
cor marked. S. C. 14 on N.
and raised a mound of stone
alongside. It's impracticable

79.00 Leave Wense Cedar ^{rows} N + S

80.00 Set a Limestone 18 + 16 + 12 ins
12 ins in the ground for the Standard
cor to T^ys 21. N. R. 10 ^{Qu} 11 East
marked. S. C. with 6 notches
on N. E. ^{Qu} N. edges, and raised
a mound of stone alongside. It's
impracticable.

3rd Standard Parallel North

Chains

Land Rolling -
Soil - 8th mile.
Dense Cedar Brush

From the Standard Cor to
Sp^s 21. N. Rs 10 ^{and} 11 East.
Just set by me I run
East on a true line, on S.
By sec. 31.

Val. 18° 48' E

- 40.00 Set a limestone 18+16+12
ins 12 ins in the ground for
Standard 1/4 sec cor, marked S.C. 1/4 on
N. face and raised a mound
of stone along it. Pits impracticable.
- 80.00 Set a limestone 18+15+12 ins
12 ins in the ground for the
Standard Cor to sec 31 ^{and}
32, marked S.C. with 6'

along S. By. T 21 N. through, R 11 East
Chains

notches on E ^{9/16} 1 notch on W.
edges and raised a mound of stone
alongside Pit impracticable.
Land Rolling.
Soil - 3rd rate.
Dense Sag & Brush ^{and grass}

East on a true line on S By
sec. 32.

Pa. 13° 48' E

40.00

Set a Limestone 18+16+10 ins
12 ins on the ground for ^{Standard} 1/4
see cor. marked. S. 6. 14 m
N. face and raised a mound
of stone alongside. Pit
impracticable.

50.00

Set a Limestone 14+12+8 ins
9 ins on the ground. for the
Standard Cor to sec. 32 ^{9/16} 33

5th Standard Parallel North

Chains

marked S. 6 with 4 notches
on E end, 2 notches on W edges
and raised a mound of stone
alongside. Pits impracticable
Sand Rolling
Soil - 6th sec -

Dense Sage & Cedar Bush

East on a true line along
S. Body see 33.

Pa 13° 48' East.

40.00 Set a limestone 24 + 14 + 6 in
18 in in the ground for the
Standard. 114 see, marked
S. 6 1/4 on W face, and raised
a mound of stone alongside
Pits impracticable.

80.00 Set a limestone 12 + 10 + 8 in
8 in in the ground for the

along S. Big Sp. 21 N. through R. 11 E
Chavis

Standard. Cor to sec 33 ^{and 24}
marked S. E. with 3 notches
on E & W. edges and raised
a mound of stone along side
It's impracticable
Fair level
Soil - 3rd rate
Sage brush ^{and} grass

East on a true line on
S Big sec 3 & 4.

On 13' 1/8' E.

40.00 Set a limestone 12 + 10 + 8 in
8 in; in the ground for Standard
1/4 sec cor. marked S. E.
1/4 on N. face. and raised
a mound of stone along side
It's impracticable

5th Standard Parallel North
chains

80.00 Set a Limestone 28+20+8
ins, 21 ins in the ground, for
the Standard Cor to sec's
34^{and} 35, marked S. C.
with 4 notches. N. and 2 notches
on E edges and raised a
mound of stone alongside
Pt's impracticable
Surface Level
Soil. 3rd rate
Sage brush ^{and} grass.

East on true line on S,
Roy sec. 35:

To 130.48' E

40.00 Set a Limestone 28+12+8 ins
21 ins in the ground for
Standard 14 sec cor, marked
S. C. 14 on N face, and

through. 11 East,

Chauss

raised a mound of stone
alongside. Pit's impracticable

50.00 Ravine Co. N.

80.00 Set a Limestone 18+12+4 in
12 in in the ground for the
Standard Cor to see 35. and

36. marked 36. with
1 notch on E^{and} 5 notches
on Wedges and raised a

mound of stone alongside
Pit's impracticable.

Surface Level

Soil, 3rd rate.

Dense sage brush.

Good grass.

East on a true line on S
By see 36.

2a 13° 18' E

5th Standard Parallel north along S By
 chain 3.21 N. through R. 11 East,

40.00 Set a Limestone 20+10+8^{ins}
 15 ins in the ground for ^{Standard} 1/4
 see cor. marked 1/4 on N.
 face, and raised a mound
 of stone alongside. Pits
 impracticable.

80.00 Set Sandstone 20+12+10 ins
 15 ins in the ground for the
 Standard Cor to Sp's 21 North -
 R's 11 ^{and} 12 East, marked S.C.
 with 6 notches on N. & ^{and} W.
 edges and raised a mound of stone
 alongside. Pits impracticable
 Sand Level.

Soil. 8th rate

Veget: Sage Brush -
 some grass

I carefully examined the
 adjustments of my solar
 transit today, particularly

5th standard Parallel North along
Chain S. By 2.21 N. through R 12 East.

the latitude and running
aparatus and found them correct -
J. M. Laughlin, Aug 6th 1883

From the standard Cor to
Sp 21. N. R. 11 ^W 12 East -
Just set by me.

Drum

East on a true line on S Ry
see 31.

Pa 13° 48' E.

40.00 Set a limestone 18+10+6 ins
12 ins in the ground, for
Standard 14 see Cor. marked
S. C. 14 on N. face, and
raised a mound of stone
alongside. Pit's impracticable

50.92 Arroyo, 25 ft deep to N.

80.00 Set a sandstone 14+12+3 ins
9 ins in the ground for the
Standard Cor to see 31 ^{and 32}

5th Standard Parallel North along
Chains

marked S. E. with 6 notches
on E ^{and} 1 notch on W edges
and raised a mound of stone
alongside. It's impracticable.
Sand. Level ^{and} Rolling
Soil. ^{and} saw
Some grass.

East main line on S
By sec 32.
Ta. 13:46 E.

34.04 Road. near N. W. ^{and} S. E.

40.00 Set a Sandstone 26+22+6 in
39 ins in the ground for
Standard 1/4 sec cor. marked
S. E. 1/4 on N. face. and
raised a mound of stone alongside
It's impracticable.

41.67 Road near N. ^{and} S

S. By 921. N. through R. 12 East
chains

53.14 Road. bears N. E. ^{and} S. W.
57.00 Another road bears N. E. S
80.00 Set a Limestone 18+14+8 in
12 ins. in the ground for the
Standard con. to see if 32 ^{and}
33. marked S. E. with 4
notches on E ^{and} 2 notches
on W. edges and raised a
mound of stone along it
It is impracticable.
Land. Broken with small cañons
Soil. 4th rate.
Some grass

East on a true line on S. By.
Sec. 33.

Pa 13° 46' E.

13.50 Top of bluff and descend
into cañon. Dip to N. E.

5th Standard Parallel North

Chairs

- 19.80 Bottom of same .110 ft deep
to N. E.
- 31.80 Leave Canon to N. E.
- 40.00 Set a Limestone 20+12+3 in
16 in in the ground for the
Standard $\frac{1}{4}$ sec cor. marked
S. E. $\frac{1}{4}$ on N. face and raised a
mound of stone along side. Pits
impracticable
- 75.22 Road has N. W. ^{and} S. E.
- 80.00 Set a Limestone 20+12+4 in
15 in in the ground for
Standard cor to sec's 33,
^{and} 34, marked S. E. with
3 notches on E ^{and} W edges
and raised a mound of stone
along side; pits impracticable.
Leav. land.
- Soil. 2nd rate
Sage brush ^{and} grass

along S. by ^{through} S. 21 N. Rg 12 East.

Chavis

East on a true line along
S. by sec. 34.

Pa 13:46' E.

40.00 Set a Limestone 20 + 12 + 4
ins 15' ins in the ground for
Standard 114 sec cor, marked
S. C. 74 on N. face, and raised
a mound of stone alongside
Pit's impracticable

48.78 Atlantic ^{and} Pacific R.R.
bears N 61° 26' W. ^{and} S 61° 26' E

80.00 Set a Limestone 20 + 12 + 4 ins
15' ins in the ground for Standard
cor to sec's 3 & 4 ^{and} 35; marked
S. C. with 2 notches on East
4 notches on N. edges and raised
a mound of stone alongside. Pit's
impracticable.

Land Level.

5th Standard Parallel North
Chain

Soil, 3rd rate.

Dense sage brush
Good grass

East on a true line on S.
by sec. 35-

Val 13° 46' 8"

- 40.00 Set a Limestone 18414 + 8 ins
13 ins in the ground for
Standard 14 sec cor, marked
S. C. 14 on N face, and
raised a mound of stone
along side. Pits impracticable
- 80.00 Set a Limestone 18415 + 4 ins
12 ins in the ground for the
Standard cor w sec 35nd
S. C. marked S. C. with 1
notch on End 5' notches on
W edges and raised a

along S. By Sp. 21 N. Rg 12 East

Chains

mound of stone alongside

It's impracticable.

Land Level

Soil. 8th rate.

Wheat, sage Brush.

Good grass.

East on a true line on S
By see 36.

Pa 13° 45' 8"

40.00

Set a Limestone 16 + 12 + 8 ins

11 ins in the ground for standard

1/4 See cor. marked S.B. 1/4 on

N face. and raised a mound

of stone alongside. It's impracticable.

To a point 6, 60. chains

South. of Temporary Closing
line to Sp. 20. N. R. 12 ^{and 13} East.

which makes the last mile

56
56.50

LH 56

3rd Standard Parallel, North

Chains, along south by T²¹ N. through R. 12 E.

of the 3rd Auxiliary Meridian
E. through T²⁰ N. R's 12th & 13 E. 73.40
chains long, and the closing 23,
30 chains west of the Standard
Cor to T²¹ N. R's 12th & 13

East. See Book No. 7.

~~10 temporary & temporary closing corners~~

Set a sandstone 20 + 18.3 in

15 in in the ground for the
closing Cor. to T²¹ N.
R's. 12th & 13 East, marked C. E.
with 6 notches on S. E. & W
edges and raised a mound of
stone alongside. Pits impracticable.

81.00 Set a limestone 22 + 12 + 4 in

16 in in the ground for the
Standard Cor to T²¹ N.

R's 12th & 13 East, marked
S. E. with 6 notches on N.
E. & W. edges and raised a
mound of stone alongside.
Pits impracticable

3rd Standard Parallel North along S

By T 21 N. through Rg 13 East.

Land: Rolling

Soil - 2nd soil.

Open cage brush.

321, R 13
Standard
From the ^{cor} to T 21. N. R's 12
and 13 East just set by me.

I continue running.

East on a true line on S by

see 31, 9

Val 13: 45' 10"

40.00 Set a Limestone 18 + 12 + 7 ins
12 ins in the ground for Standard
14 see cor marked S. C. 114
on N face. and raised a
mound of stone alongside
74.00 Open Rolling land
its impracticable.

80.00 Set a Limestone 18 + 14 + 5 ins
12 ins in the ground for
Standard Cor, see's 31 and 32

3rd Standard Parallel North
chains.

marked S. C. with 5' notches
on End 1. notch on W. edges
and raised a mound of
stone alongside. Pits im-
practicable.

Land. Rolling sandstone
ridges. cut up with washes
soil. 3rd row
Good, grazing land.

East on a true line on S.

By sec. 32.

Pa 13° 46' East

40.00 Set a Limestone 16+12+8 in
11 in in the ground for Standard
1/4 sec cor. marked S. C. 1/4
on N. face. and raised a
mound of stone alongside
Pits impracticable

along S by T_p 21 N. through R. 13 East

Chaus

80.00 Set a Limestone 18+14+6 in
 12 in in the ground for Standard
 Cor. to Lee's 32^{and} 33. marked
 S. C. with 2 notches on W,
 and 4 notches on E. Edges and
 raised a mound of stone along side
 Pit's impracticable,
 Sand Rolling
 Soil - 3rd rate,
 Dense sage brush.

East on T_hell line on S by Lee's 33
 Lat 13° 46' E

40.00 Set a Limestone 20+18+6 in
 15 in in the ground for Standard
 14 see cor. marked S. C. 14 on
 N face and raised a mound
 of stone along side. Pit's impracticable
 80.00 Set a Sandstone 20+18+10 in

5th Standard Parallel North

Chains

15' mis in' the ground for
 Standard Cor to see 33.
 And 34 marked S.C. with
 3 notches on E^{and} W. edges
 and raised a mound of stone
 alongside. Pt's impracticable
 Land. Rolling.
 Soil, 8th rate
 Dense. Sage brush

East on a true line on S.
 By see 34

To 13° 45' E

40.00 Set a Sandstone 18416 + 4 mis
 Standard
 12 mis in the ground for
 see cor marked S.C. 14 on
 N. face. and raised a mound
 of stone alongside. Pt's
 impracticable

along S. By T. 21 N. through R 13 East
 chains

80.00 Set a sandstone 18x14x4 ins
 12 ins in the ground for standard
 cor & sec's 34 ^{and} 35. marked
 S. 6. with 4 notches on N. and
 2 notches on E edges and raised
 a mound of stone along side,
 pit impracticable.
 Sand. Rolling
 Soil. 2nd rate.
 Dense Sage & brush

Back on a true line on S
 by sec 35
 Ga 18°. 46' East.

40.00 Sand stone 18x8x4 ins. 12 ins.
 Standard
 in the ground for $\frac{1}{2}$ Sec, Cor, marked $\frac{1}{2}$ on N.
 face, dug pits 18x18x12 ins. E [^] and W
 of stone $5\frac{1}{2}$ ft. dist. and raised a mound of earth
 $1\frac{1}{2}$ ft. high. $3\frac{1}{2}$ ft. base along side.

5th Standard Parallel North

chains

80.00 Set a Sandstone 18+8+4 ins
 12 ins in the ground. for
 Standard Cor to sec 36th
 S.B. masked S.B. with 6
 notches on N and, 1 notch
 on S edges, and raised a mound
 of stone alongside. It's
 impracticable.
 Land. Rolling
 Soil. 3rd rate.
 Good grazing land.

East on a true line on S.
 by sec 36.

Pa 13° 46' East

40.00 Set a Sandstone 20+16+2 ins
 15 ins in the ground. for
 Standard 1/4 sec cor.
 masked. S.B. 1/4 on N.

along S. by T. 21 N. through R. 13 East,

chain's

face and raised a mound
of stone alongside. Pts
impracticable.

80.00

After ^{again} making diligent
search for the old T. cor,
and not finding any trace of it
I set a limestone 18+15+4 ins
12 ins, in the ground for the
Standard Cor to T. 21 N.
R. 13^{qu} 14 East, marked
S. C. with 6 notches on N. E.
and W edges and raised a mound
of stone alongside. Pts
impracticable.

Land Rolling

Soil; 2nd rate -

Dense. Says brush. ✓

I carefully examined the adjust-
ments of my solar compass to ^{transit} see
particularly the latitude and

5th Standard Parallel, North, along S. By.

Chains S. 21 N. through, R. 13 East.

reversing apparatus and found
them correct.

J. B. McLaughlin

Aug 7th 1883.
