

No. 1242

4

BOOK 1242
Book 1242

~~See Index~~
Field Notes

OF THE SURVEY OF

BOOK 1242

1242

the
Fifth Standard
Parallel North
through Ranges
14 and 15 East
and Range 17 East.

*(Capt. Rollman
Survey in Sept. 25 1882 this line, thro. R. 17 E.)
only this R. 17 E.*
Gila and Salt River Base and Meridian

ARIZONA.

By *O. D. Wheeler* D.S.

Under contract dated *Aug. 5 - 1882*

Survey commenced *Sept. 21st 1882*

Survey completed *Sept. 22nd 1882*

No. 1242

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	Pages.
5th Stand - N. through R. 10.	1 to 16
" " " "	.. 14 15 to 21
" " " "	.. 17 22 to 30.

→ This line was also surveyed by Harris (in 1879) see Tps 10 to 20 N Rgs 10 to 20 E

T. 21 N., R. 14. E. T. 21 N., R. 15. E.

32	33	33	34	35	36	31	32	33	34	35	36
20	19	18	17	16	15	12	10	8	6	4	1
6	5	4	3	2	1	6	5	4	3	2	1

T. 21 N., R. 17. E.

31	32	33	34	35	36
23	25	26	27	28	29
6	5	4	3	2	1

1B

BOOK 1242

Survey commenced
September 21 Completed
September 22nd. 1882

For description of
instrument- and Preliminary
notes see Book 1

No. 1242

5th Standard Parallel through
Range 15 East.

Chains From the Standard
Cor. to Twp. 21 N. Range
15 and 16 E. which is
a cottonwood post 4 ins.
sq. firmly set in
a mound of earth
marked S. C. T. 21 N. on
N. Range 16 E. on C. R.
15 E. on N. face. with
6 notches on S. E. and
N. face. and - pits N. E.
and N. of post 6 ft. dia.
I run West on the
South bound. of Sec. 36
Var. $13^{\circ}30' E.$

Over level land

37.60 To Olding Cor. to Twp. 20 N.
R. 15 and 16 E. which is
a post firmly set in
a mound of earth

5th Standard Parallel

Chassis

properly marked and
 located as per instruc-
 tions of old manual.
 from which a cottonwood
 8 in. diam. fr. S. 72°
 $30'$ N. 40 links dist
 a cottonwood 9 in. in
 diam fr. S. 34° E. 190
 links dist.

40.00 Set a post 4 ft. long
 4 in. sq. with marked
 stone 12 in. in the
 ground for "4 Sec.

Standard Cor. marked
 "4 S. S. C. on N. face
 dug pit 18 x 18 x 14 in.
 E. S. and N. 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.

N. through Range 10-E.

Chairs

face around post. from
which a cottonwood tree
in diam. to N. 50° W.

marked S. C. "4 S. C. T.

0-8.00 Leave timber

8.00

Set a post 4 ft. long
4 ins. sq. with marked
stone 12 ins. in the
ground for Standard
Cor. to Sec. 35 and 36
marked S. C. T. 21 or.

R. 15 E. on N. S. 36 or
E. and S. 35 on N. face
with notch on E. and
5 notches on N. edges.

dug pits 18x18x12 ins.
N.E. and N. of post
5 1/2 ft. dist. and raised
a mound of earth
2 ft. high 4 1/2 ft.

5th Standard Parallel.

Chairs

base around post
 Surface level
 Soil 3rd. rate
 Scrubby timber 58 Chs.
Greewood brush 22 Chs.

West on the S.
 bound. of Sec. 30
 Va. 13° 31' E.

+ 000

Ground gradually
 Deposited marked stone
 12 ins. in the ground
 for Standard "4" Sec. Cor.
 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 8 1/2 ft. base
 over it. In E. pit. drove
 stake 2 ft. long 2 ins.

St. through Range 15 E.

Chairs

sq. 12 ins. in the ground
marked $\frac{1}{4}$ S. S. E. on
St. face

8000 Deposited marked stone
12 ins. in the ground
for Standard Cor. to
Secs. 34 and 35 dug pits
18x18x12 ins. St. E. and St.
of stone $5\frac{1}{2}$ ft. diam. and
raised a mound of
earth 2 ft. high $4\frac{1}{2}$ ft.
base over it. In
E. pit drove a stake
2 ft. long 2 ins. sq. 12 ins.
in the ground marked
T. 21 St. R. 15 E. S. E. on St.
S. 35 on E. and S. 34 on
N. face; with 2 notches on E.
and 4 notches N. face.

5th Standard Parallel
Chains

Surface rolling
Soil 3rd. to 4th rate
Greenwood and oregon

Met on the S. bound.
of Sec. 34
Va. 13° 00' E.

4 000 Continue to ascend
Deposited marked stone
12 ins. in the ground
for "4 Sec. Standard Cor.
dig pit 18x18x12 ins. E.
and W. of stone 5 1/2 ft.
ditch and raised a
mound of earth 1 1/2
ft. high 3 1/2 ft. base
over it. On E. pit
drove a stake 2 ft.
long 2 ins. sq. 12 ins. in
the ground marked

St. through Range 15-E.

Chairs

5850 114 S. S. Q. on N. face
 Salt Lake and Brigham
 City road hrs. St. N. and S. E.

8000 Deposited marked stone
 12 ins. in the ground
 for Standard Cor. to Sec.
 33 and 34 dug pits
 18x18x12 ins. N. E. and N.
 of stone 5 1/2 ft. dist. and
 raised a mound of
 earth 2 ft. high 4 1/2
 ft. base over it. In E.
 pit drove stake 2 ft.
 long 2 ins. sq. 12 ins. in
 the ground marked
 S. 27 St. R. 15-E. S. E. on St.
 S. 34 on E. and S. 33 on
 N. face; with 3 notches
 on E. and N. faces.

5th Standard Parallel
Chains

Surface level
Soil 3rd. to 4th. rate
Scattering greasewood and
sage brush, but little
grass.

Met on the S. bound.
of Sec. 33
Va. $13^{\circ} 30' E.$

3400 Ascend gradually
Salt Lake and St. Johns
Roads hrs. N. $18^{\circ} N.$ and
S. $18^{\circ} E.$

2000 Top of low ridge hrs. N.E.
Lamp. S. N. 25 ft. high
and descend gradually

4000 Deposited marked
stone 12 ins. in the
ground for Standard
"4 Sec. Cor. dug pits"

N. through Range 10-E.

Chairs

18x18x12 ins. E. and N.
 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. face over it
 In E. pit drove stake
 2 ft. long 2 ins. sq. 12
 ins. in the ground
 marked 114 S. S. C. on

N. face

8000

Deposited marked stone
 12 ins in the ground
 for Standard Cor. to
 Secs. 32 and 33 dug
 pits 18x18x12 ins. N. E.
 and N. of stone $5\frac{1}{2}$ ft.
 dist. and raised a
 mound of earth 2 ft.
 high $2\frac{1}{2}$ ft. face over
 it. In E. pit drove

5th. Standard Parallel Chairs

a stake 2 ft. long 2 ins.
 sq. 1 2 ins. in the ground
 marked S₂, N. R. 15 E. S. 16.
 on S. S. 33 on E. and
 S. 32 on N. face; with
 2 notches on N. and 4
 notches on E. face.

Surface slightly more rolling
 Soil very sandy 4th rate
 Less vegetation.

Nest on the S. face
 of Sec. 32.
 Va. 13° 30' E.

4 000 Ground gradually
 Deposited marked
 stone 1 2 ins. in the
 ground for ^{stand.} Sec. Cor.
 dug pits 18x18x12 ins. E.
 and N. of stone 5 1/2

North through Range 15-E. Chains

ft. dist. and raised
a mound of earth $1\frac{1}{2}$
ft. high $3\frac{1}{2}$ ft. base
over it. Dr. C. put drove
stake 2 ft. long 2 ins. sq. 12
ins. in the ground marked
 $\frac{1}{4}$ S.S.C. on St. face

4610 Enter dry lake b.s. St. and S.
15-ft. deep.

8001 Deposited marked
stone 12 ins. in the ground
for Standard Cor. to Sec.
31 and 32 dug pits 15×15
 $\times 12$ ins. St. C. and N. of
stone $5\frac{1}{2}$ ft. dist. and
raised a mound of
earth 2 ft. high $4\frac{1}{2}$ ft.
base over it. Dr.
C. put drove stake 2 ft.
long 2 ins. sq. 12 ins. in

5th Standard Parallel Chains.

the ground marked
 T. 21 of R. 1, 5 E. S. 6. on Cr.
 S. 32 on E. and S. 31 on N.
 face with 1 notch on N.
 and 5 notches on E. face;
 Surface level
 Soil 3rd. rate
 Very little vegetation
 none on lake

West on the S. found
 of Sec. 31
 Va. $13^{\circ}30' E.$

Over dry lake

4 000

Deposited marked
 stone 12 ins. in the
 ground for Standard
 1/4 Sec. Cor. dug pits
 $18 \times 18 \times 12$ ins E. and N.
 of stone $5\frac{1}{2}$ ft. dist.

St. through R. 15 E.

Chains

and raised a mound
of earth $1\frac{1}{2}$ ft. high $3\frac{1}{2}$
ft. base over it. In
E. pit-drove stake 2
ft. long 2 ins. sq. 12 ins.
in the ground, marked

114 S. S. 4. on St. face

6530 West edge of dry lake bed.

St. 10 E. and S. 10 N.

8000 Deposited marked
stone 12 ins. in the

ground for Standard
Cor. to Tps. 21 N., R.

14 and 15 E. dug pits

$24 \times 18 \times 12$ ins. crosswise

on each line N. E. and

N. of stone 6 ft. dist. and

raised a mound of

earth $2\frac{1}{2}$ ft. high 5 ft.

base over it.

5th Standard Cr. through
Chairs. Range 15-E.

In E. pit drove stake
'2 ft. long 2 ins. dia 12 ins.
in the ground marked
S. C. T. 2, Cr. on Cr.

R. 15 E. S. 31 on E. and
R. 14 E. S. 36 on N. faces; with
6 notches on N. E. and N.
faces.

Surface nearly level
Little vegetation
Soil sandy 3rd. rate

5th Standard Parallel N. through
 Range 14 East.
 Chains.

From the ^{Standard} Cor. to Twp. 21 N.
 R. 14 and 15 E. just
 established by me
 I run West on the
 South boundary
 of Sec. 36

Ca. 3030° E.

Acquid

4000

Deposited marked
 stake 12 ins. in the ground
 for ^{Standard} 14 Sec. Cor. dug pits
 $18 \times 18 \times 12$ ins. E. and W. of
 stone $5\frac{1}{2}$ ft. dia. and
 raised a mound
 of earth $1\frac{1}{2}$ ft. high
 $3\frac{1}{2}$ ft. base over it.
 In E. pit drove stake
 2 ft. long 2 ins. sq. 12 ins.
 in the ground marked
 14 S.E. on N. face

5th Standard North
Chairs

8 0.00

Set a sand ^{stand.} stone $24 \times 14 \times 4$ ins., 8 ins. in
the ground for Cor. to Secs, 35-36 marked
with 5 notches on W. and 1 notch on E. edges,
dug pits $18 \times 18 \times 12$ ins. N.E. & W. of stone $5 \frac{1}{2}$ ft.
dist. and raised a mound of earth 2 ft. high,
 $4 \frac{1}{2}$ ft. base. alongside.

S6

Surface level
Soil 3rd. rate

Light growth of grass.

Met on the S. bound.
of Sec. 35
Va. $130^{\circ} 30' E.$

Opened gradually

30.00

Top of ridge to. $10^{\circ} E.$
40 ft. high and down

40.00

Set a sand ^{stand.} stone $14 \times 8 \times 4$ ins., 9 ins.
in the ground for $\frac{1}{2}$ Sec. Cor. marked $\frac{1}{2}$ S. on N.
of sec. dug pits $18 \times 18 \times 12$ 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. alongside.

Through Range 14 East Chairs

80.00

Set a ^{stand.} sand stone $16 \times 16 \times 7$ ins., 11 ins. in the ground for ^{Stand.} Cor, to Secs, 34-35 marked S.C. with 4 notches on W. and 2 notches on E. edges, dug pits $18 \times 18 \times 12$ ins. N.E. & W. gate $5\frac{1}{2}$ ft. dist. and raised a mound of earth 2 ft. high. $4\frac{1}{2}$ ft. base. alongside.

Surface level and rolling
Soil gravelly, sandy 4th rate.
Very little grass

Nest on the S. found.
of Sec. 34

Va. $130^{\circ} 30' E.$

Dug out

40.00

Set a ^{stand.} sand stone, $14 \times 12 \times 4$ ins., 9 ins. in the ground for $\frac{1}{4}$ Sec, Cor, marked $\frac{1}{4}$ S.C. on N. face, dug pits $18 \times 18 \times 12$ 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. alongside.

5th Standard Parallel

Chains

8 0.00

Set a ^{Stand.} sand stone $6 \times 10 \times 4$ ins., 11 ins. in the ground for $\frac{1}{4}$ Cor. to Secs. 33 and 34 marked S. 6 with 3 notches on N. and 3 notches on E. edges, dug pits $18 \times 18 \times 12$ ins. N.E. W. of stone $5\frac{1}{2}$ ft. dist. and raised a mound of earth 2 ft. high. $4\frac{1}{2}$ ft. base. alongside.

Surface level and rolling
Soil sandy gravelly 4th rate
Very little grass

West on the S. bound.
of Sec. 33
Ta. $130^{\circ} 30' E.$

Discard

25 00 Draw 25 links wide
Co. N. $100^{\circ} E.$

4 0.00

Set a ^{Stand.} sand stone, $4 \times 8 \times 4$ ins., 9 ins. in the ground for $\frac{1}{4}$ Sec. Cor. marked $\frac{1}{4}$ S. on N. face, dug pits $18 \times 18 \times 12$ ins. E. and N. 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. alongside.

West through Range 14 E. Chains

7000

Set a ^{sand} ~~stone~~ ^{stone} 4 x 8 x 4 ins., 8 ins. in the ground for ^{Stand.} Cor, to Sees, 32 and 33 marked S.C. with 2 notch on N. and 4 notch on E. edges, dug pits 18 x 18 x 12 ins. N.E. and W. at 5 1/2 ft. dist. and raised a mound of earth 2 ft. high. 4 1/2 ft. base. alongside.

Surface nearly level
Soil sandy & rd. rate
Scattering grass and
sage brush

Met on the S. bound.
of Sec. 32
Va. 130° 30' E.

2000

Mound gradually
Top of spur N. 20° E.
40 ft. high and descend

4000

Set a ^{stone} ~~stone~~ ^{stone} 4 x 8 x 6 ins., 9 ins. in the ground for ^{Stand.} 1/2 Sec, Cor, marked 1/2 S.C. 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.

5th Standard Parallel

Chains

- 75.20 Dry wash 30 links wide
30 links wide Co. $\text{St. } 10^{\circ} \text{ E.}$
c and ascend.
- 8000 Set a ^{stand.} sand stone 9×12 bins, 3 ins. in
the ground for Cor, to Sees, 31 and 32 marked S.C.
with / notch on W and 5 notch 10 on E. edges,
dug pits $18 \times 18 \times 12$ ins. N.E. & W. $\frac{1}{2}$ ft. dist. and raised a mound of earth 2 ft. high.
 $4\frac{1}{2}$ ft. base. alongside.

Surface rolling
Soil 3rd. rate, sandy.
1st. half little vegetation
2nd. good grass.

Just on the South
boundary of Sec. 31
Co. $13^{\circ} 30' \text{ E.}$

Open and gradually

- 40.00 Set a ^{stand.} sand stone, $10 \times 8 \times 6$ ins., 10 ins.
in the ground for $\frac{1}{2}$ Sec, Cor, marked $\frac{1}{2}$ S.C. on St.
face, dug pits $18 \times 18 \times 12$ ins. E and St.
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. alongside

North through Range 14 E.

Chains

80.00

Set a sandstone $24 \times 18 \times 12$
 ins. 18 ins. in the ground
 for Standard Cor. to
 Twp. 21 N. R. 13 and 14 E.
 marked S. C. with
 6 notches. N. E. ^{and} N. edges,
 dug pits $24 \times 18 \times 12$ ins.
 crosswise on each line
 N. E. and N. of stone
 6 ft. dist. and raised
 a mound of earth
 $2\frac{1}{2}$ ft. high 5 ft base
 along side
 Surface rolling
 Soil sandy 3rd. rate
 Very little grass

I carefully examined
 the adjustments of
 my Solar Compass

to-day particularly
the latitude and reversing
apparatus and found them
correct September
21st. 1882.

5th Standard Parallel North
through Range 17 E.

Chains From the ^{Stand.} Cor. to Twp.
21 N. R. 16 and 17 E. which
is a cottonwood post
4 ins. sq. firmly set
in a mound of earth
marked S. E. S. 21 N. or N.
R. 17 E. S. 21 on E. and
R. 16 E. S. 26 on N. face.
with notches on N. E. and
N. face. and fits N. E.
and N. of post 6 ft. dist.
I run East on the S.
bound. of Sec. 31
Sta. 14018 E

3650 Discard. gradually
Gross dry wash 125
highs wide to S. 45° N.
40.00 Set a sandstone 107/28x10
ins. 10 ins in the ground
for 114 Sec. Standard

5th. Standard Parallel

Chains

Cor. marked 114 S. C.
on St. face and
raised a mound
of stone, alongside

Pike impracticable

41.40 Gross dry wash 150
links wide Co. St. 40° N

50.20 Gross ^{same} dry wash 150 links
wide Co. S 30° W.

8000 Set a ~~small~~ ^{steel} stone 4x8x6 ins, 9 ins. in
the ground for Cor. to Secs, 3/4 and 2 marked S.C.
with / notch on W. and 5 notches on E. edges,
dug pits 18 x 18 x 12 ins. N.E. & W. of stone 5 1/2 ft.
dist. and raised a mound of earth 2 ft. high.
4 1/2 ft. base. alongside.

Surface level
Soil 3rd. rate
Some sagitt. vol

Port through Range 17E.

Chains

East on the S. bound.
of Sec. 22.

No. 14° 18' E.

40.00

Set a sandstone 12 x 6 x 6 ins.
8 ins. in the ground for "4
Sec. Standard Cor. marked
"4 S. P. on N. face
and raised a mound
of stone along side
of ~~the~~ ^{is impractical}

50.00

Set a ^{stand.} ~~call~~ stone 4 x 6 x 6 ins, 9 ins. in
the ground for Cor. to Secs, 22 and 23 marked ~~26~~
with 2 notch ~~s~~ on N. and 4 notch ~~s~~ on E. edges,
dug pits 18 x 18 x 12 ins. N.E. & N. of stone 5½ ft.
dist. and raised a mound of earth 2 ft, high,
4½ ft. base. alongside.

Surface rolling
Soil 2nd. rate
for grazing

5th standard parallel
Chains

East on the South boundary
of Sec. 33.
Pa. $14^{\circ} 18' E$.

4000 Set a sandstone $12 \times 12 \times 4$ in.
8 in. in the ground
for standard $1/4$ Sec.
Co. marked $1/4$ S. C. on
N. face and raised a
row of stone alongside
Pit: insignificant.

8000 Set a post 4 ft. long.
 $4 \frac{1}{2}$ in. sq. with mark-
ed stone 12 in. in
the ground for standard
Co. to Sec. 33 and 34
marked S. C. S. 2/4.
R. $17^{\circ} E$. on N. S. 34 on E.
and S. 33 on N. face;
with 3 notches on E. and
West face. dug pit: $18 \times 18 \times 12$ in.

North through Range 17E

Chains

N. E. and N. of post
5 ft. dist. and raised a
mound of earth
2 ft high 4 1/2 ft. base
around post.

Surface level
Soil 3rd. rate
Good grazing

East. or S. bound. of
Sec. 34

Var. $14^{\circ}18'E$.

4000

Set a sand stone $14 \times 10 \times 10$
ins. high in the
ground for Standard 114
p.p. top marked 114
P.C. on N. face and
raised a mound
of stone alongside

5th Standard Parallel

Ch. 1111

8 570

Set a sandstone ^{Stand.} 20 x 16 ins, 7 ins. in the ground for \wedge Cor. to Secs. 34 and 35 marked \searrow St. with 4 notches on N. and 2 notches on E. edges, dug pits 18 x 18 x 12 ins. N.E. + W. of stone 5 1/2 ft. dist. and raised a mound of earth 2 ft. high. 4 1/2 ft. base. alongside.

Surface level
Soil 3rd. rate
Some grass ✓

East or South found,
of Sec. 35.

4 000 Va. 14° 18' E.
Set a sandstone 10 x 14 x 12 ins. 11 ins. in the ground for Standard 1/4 Sec. Cor. marked 1/4 St. on N. face and raised a mound of stone alongside. Pits impracticable on west bank of dry wash

Acres through Range 17 E.

Chairs

4532 Some dry wash 100 links wide S. 70° W.

8000 Set a sand stone, 2x 8x6 ins, 8 ins. in the ground for Cor, to Secs, 35 and 36 marked 26. with 5 notch on W. and 1 notch on E. edges, dug pits 18 x 18 x 12 ins. N.E. & N. 5 1/2 ft. dist. and raised a mound of earth 2 ft, high. 4 1/2 ft. base. alongside.

Surface rolling
Soil 3rd rate
Good grazing

East on the S. bound
of Sec. 36
Pa. 140 / 8° E.

4000 Set a sand stone, 2x 6x6 ins, 8 ins. in the ground for 1/2 Sec, Cor, marked 1/2 Sec 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.

8010 Set a cottonwood post

5th Standard Parallel

Chains

4 $\frac{1}{2}$ ft. long 4 ins. o.g.
 with marked stakes 12
 ins. in the ground for
 Standard Cor. to Tpts.
 N. R. 17 and 18 E.
 marked S. 21 N. on
 N. R. 18 E. S. 21 on E.
 R. 17 E. S. 26 on N.
 face: with 6 notches on
 N. E. and N. face, dug
 pits 24 x 18 x 2 ins. crosswise
 on line N. E. and N. of
 post 6 ft. dist. and
 raised a mound
 with 2 $\frac{1}{2}$ ft. hgt. of 5 ft.
 face, around post.
 Surface rolling
 Soil 2nd. rate
 Good grazing

North through Range 17 East

I carefully examined
 the adjustments
 of my Solar Compass
 to-day particularly
 the latitude and
 River swing apparatus
 and found them correct
 Sep. 22nd

For final accts see book
 No 20.

No. 1242

32
BOOK 1242

U. S. Surveyor General's Office,
Tucson, Arizona, July 21, 1883,

The foregoing Field Notes of the survey of the
Fifth Standard Parallel North,
through Ranges 14 & 15 East
and Range 17 East.

of the Gila and Salt River Base and Meridian, Arizona,
executed by O. D. Wheeler,
D. S., under his contract of the 5th day of
August, 1882, having been critically ex-
amined and the necessary corrections and explanations
made, the said Field Notes and the surveys they de-
scribe, are hereby approved.

J. W. Robinson

Surveyor General.