

No. 1281

BOOK 1281

Book No. 3

P

See Index
Field Notes

OF THE SURVEY OF

the
4th Standard Parallel N.
through
T. 17 N. R. 17-18 ^{and} 19 E

No. 1281 **BOOK 1281**

Gila and Salt River Base and Meridian

ARIZONA.

By *M. H. Grant*, D.S.

Under contract dated *Aug 5th* 1882.

Survey commenced *June 18th* 1883.

Survey completed *June 19th* 1883.

*W. H. Cullum
Proprietor
Indevyda
Company*

1281

Index.

4th Standard N. through R. 17 E. from 1-10

" " " " " 18 " " 11-18

" " " " " 17 " " 19-28

R. 17 E.

31	32	33	34	35	36
26	25	23	22	20	19

6 5 4 ³ R. 18 E. 2 1

31	32	33	34	35	36
18	16	15	14	12	11

6 5 4 ³ R. 19 E. 2 1

31	32	33	34	35	36
8	7	5	4	2	1

6 5 4 3 2 1

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

Survey commenced June 18th 1883
Survey completed, June 19th 1883.

4th Standard Parallel

chs

From the Standard line
to Sp's 17. N. Rs 19nd 20th.
which is
A Post 4 ins square. set
firmly in a mound of
earth. properly marked
and notched as per old
instructions. 720^{Survey} ¹ ₁ trees.

I run

West ^{or atrough} on S Body see 36.

to 14.00 E

to seeed.

4.81

Cross wash 10 lbs wide
to N. E. and asced

40.00

Set a Sand stone, 16 x 12 x 4 ins., 11 ins.
in the ground for ^{Standard} ₁ Sec. Cor, marked 1st Con N.
Two 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, 2 1/2 ft. base. alongside.

North through R. 19 S.

chs

59.00 Top of ridge bears $N. 27^{\circ} E$
40 ft high ^{and} descends.

80.00 Set a Sandstone $24 \times 12 \times 4$ in
18 in in the ground for the
standard lev 2 see 35-
^{and} 36, marked S. C. ~~with~~
with 1 notch on S. and
5 notches on W. edges and
raised a round stone
alongside. Pile impracticable
Sand. Rolling
Soil. 3rd rate. Sandy.
Good grazing.

^{on a true line}
West on S. ~~to~~ see 35 -
to $14^{\circ} 15' E$

Descend gradually.

40.00 Set a Sandstone $19 \times 13 \times 6$ in
12 in in the ground for ^{Standard} 1/4 see

4th Standard Parallel North

cls

con. marked 4 S.C. on
N face. and raised
a mound stone along side
Pile impracticable.

48.80

cross mark 10 lbs mid
to 71.12° E. and ascend,
gradually.

80.00

Set a sandstone $20+12+10$
ins. 15 ins in the ground for
the Standard bar to see
34th and 35th marked S.C. with
2 notches on E^{and} W^{edges} ^(notches on)
and raised a mound stone
along side. Pile impracticable
Sand Broken ^{and} Rocky
Soil. Sandy ^{and} rate
Good Faging.

through R. 19 E.

chs

at true horizon
West on ₁ S. Ridge see 34.

Pa 14° 00' E

Ascends

31.00 Top of ridge bears $21.15^{\circ} N$.
40 ft ^{high} and descends.

40.00 Set a Sandstone 20+16+8 in

15 ins in the ground ^{stand for 14}

see cor marked 74

S. C. ₁ and raised a mound
stone alongside. Dis-
impracticable.

80.00 Set a Sandstone 26+10+6 in

27 ins in the ground for
the Standard Cor

to see 33 and 34. marked

S. C. with 3 notches on S.

and N. edges on duplets

18+18+12 ins N. E and W of

stone $5\frac{1}{2}$ ft dist. and

raised a mound of

4th Standard Parallel

Earth 3 ft high 4 1/2
ft base along side
Sand. Broken ^{and} Rocky.
Sand 3 to 5 ft. Good grazing

Next on ^{a true program} Box sec 33.
S 14° 03' E

Ascend.

16.00 Top of Spur bears N. 10° E. 30 ft
high and descend

33.00 Cross road 6 lbs wide
to N 30° E. 30 ft ^{deep} high and
ascend.

40.00 Set a Sandstone 16 + 12 + 4 in
11 in in the ground. ^{Standard} for 1/4
see cor. marked 1/4 S.E.
on N. face, and raised
a mound of stone
along side E. Pits impracticable

North through R 19 8

als

47.00 Top of Spur bears $N 10^{\circ} E$
25 ft ^{high} and descend

80.00 Set a Post 4 ft long 4 in
square, with marked
stone 12 in in the ground
for Standard Cor to
see is 32. ^{and} 33. marked
S. to $N 17^{\circ} N. R. 19 E.$ on N.
S. 33. on E. and S. 33. on N.
faces, with 4 notches on E.
and 2 notches on N. faced
dug pits 18 + 18 + 12 in. N.
E ^{and} N. of post 5" 1/2 ft. dist.
and raised a mound of
earth 2 ft high 4" 1/2 ft.
base around post.
Land Rolling ^{and} rocks
Soil; 3rd rule.
Good grazing.
Timber. Scattering bushes

4th Standard Parallel

West on ^{a true line} ~~S~~ ^{Bonysee} 12.
 on 14° 00' E

31.00 Descend gradually,
 Cross creek 20 lbs wide,
 to N. E. Descend gradually.

40.00 Set a post 3 ft. long 3 ins. diam. with marked
 stone, 12 ins. in the ground for ^{Standard} $\frac{1}{4}$ Sec. Cor.,
 marked $\frac{1}{4}$ ~~S~~ on N face, dug pits 18 x 18 x 12
 ins. E and W 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.

80.00 Set a Post 4 ft long 4 ins
 square with marked stone
 12 ins in the ground for
 the Standard Cor to
 see's 31 ^{and} 32. marked S. E.
 117 N. R. 19 E. on N. S. 32 on E
 and S. 31 on W. faces
 with 5 notches on E and 1

North through R. 19 E.

chs:

notch on N. faces.
 dug pits 18+18+12 ins
 N. E and W. of post 5 1/2
 ft dist and raised
 a mound of earth
 2 ft high 4 1/2 ft base
 around post
 a low fence. ~~Set impracticable~~
 Land Rolling and rocks.
 Soil: 3rd rate.
 Good grazing.
 Timber Scattered juniper

West on ^{at true juniper} S. Boundary see 31

to 14: 15' E

Ascend gradually.

40.00 Set a post 3 ft. long 3 ins. diam. with marked
 stone, 12 ins, in the ground for ^{standard} 1/4 Sec. Cor,
 marked 1/4 sec on N face, dug pits 18 x 18 x 12
 ins. E and W. of post 5 1/2 ft. dist. and raised
 a mound of earth 1 1/2 ft. high. 3 1/2 ft. base, around
 post.

4th Standard Parallel

chs

80.00 Set a Post $4\frac{1}{2}$ ft long 4 in square, with marked stones 12 in in the ground for the Standard Cor to Tps 19 N. R. 18th 19 E. marked S. C. T. 19 N. on N. R. 19 E. S. 31 on E. R. 18 E. S. 36 on N. faces, with 6 notches on N. Eth and W. faces; dug pits 24 + 18 + 12 in across on each line N. E. and W. of post 6 ft dist; and raised a mound of earth 2 $\frac{1}{2}$ ft high 6 ft base around post.

Land, Rolling
Soil, 2nd rate. Good grazing
Timber. Scattering Juniper
& cedar.

4th Standard Parallel

chs:

- From the blind Cor. to Sps 17ⁿ, 17^s 18ⁿ 19^e
 Pit established - ^{Drum} ^{over} ^{the} ^{wire} -
 West on South Bly sec 36
 Jan 14/15 '88
- Ascend gradually.
- 12.00 Top of ridge bears N 30° W. 30
 ft high and descend
 gradually.
- 46.00 Set a post 3 ft. long 3 ins. diam with marked
 stone, 12 ins, in the ground for ^{Stave} $\frac{1}{4}$ Sec, Cor,
 marked 1556 on N face, dug pits 18 x 18 x 12
 ins. E and W 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.
- 47.00 Cross wash 8 lks mid^s Co
 N 60° W. and ascend.
- 68.50 Cross point of spur trs
 N. 37° W. and descend
- 73.00 Cross wash 20 lks mid^s Co
 Co N. 10° E. and ascend
- 80.00 Set a sandstone 20 x 12 x 6 in
 15 in in the ground for
 the Standard. Cor to sec

North through R18 E.

Obs

35^{and} 36. marked S. E.
 with 1 notch on E^{and} 5 notches
 on W edges and raised
 a mound stone arranged
 S. E. - imp. - act. - able.
 Sand Rallery
 Soil: Sandy, red face
 Good grazing
 Timber: Scattering Juniper
 Brush

Wet ^{on a straight line} on N. S. ^{about} see 35 -
 Is 14° 15' E.

Ascend gradually.

40,00

Set a post 3 ft. long 3 ins. diam with marked
 stone, 12 ins, in the ground for ^{Stone} $\frac{1}{4}$ Sec. Cor.
 marked $\frac{1}{3}$ on N face, dug pits 18 x 18 x 12
 ins. E and W 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.

4th Standard Parallel North

dis

80,00

Set a Post 4 ft long 4 in square with marked stone 12 in in the ground for the Standard Cor to see 34⁹ & 85; marked. S. C. T. 17 N. R. 18 E. on N. S. 36. on E and see 34 on N faces with 2 notches on E. and 4 notches on N. faces. depths 18 + 18 + 12 in. N. E. and N. of post 6 1/2 ft dist and raised a mound of earth 2 ft high 4 1/2 ft base around post.

Land Rolling
Soil. Sandy and 1/4th rate
Good grazing
Fencer Scattering cedar
Brush

through R. 18 E.

Obs

West on ^{at true Dye} ~~on~~ ~~to~~ ~~see~~ 34
 2a 14° 20' E

Ascend

18.00 Top of Spur bears N 25° E
 30 ft high and descend.

38.50 Cross wash, 20 lbs m^l
 to N. 20° E. and ascend

40.00 Set a Sandstone 24 + 20 + 6 in
 18 in in the ground. for ^{Standard} ~~for~~ ~~1/4~~
 see cor marked 1/4 S. on
 N face, and raised a mound
 stone along set.

80.00 Set a Sandstone 36 + 12 + 6 in
 27 in in the ground for
 the Standard cor to see
 38 and 34, marked S. C. with
 3 notches on E and W. edges
 and raised a mound stone
 along side. Pipe impracticable
 sand pooling soil see photo scattering timber

4th Standard Parallel

do

a true line
West on S. B. of sec 33

to 14° 15' E

Ascend,

21.00

Top of Ridge bears N. 10° E. 30 ft.
high ^{and} descend?

40.00

Set a Sandstone ^{stone} 24 x 12 x 6 ins., 18 ins.
in the ground for ^{Standard} $\frac{1}{2}$ Sec, Cor, marked S.C. on N
face, dug pits 18 x 18 x 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.

54.00

Cross wash. 30 lbs wide. Co
N 10° E. and ascend.

76.00

Top of Spur bears N. 25 ft.
high ^{and} descend.

80.00

Set a Sandstone 20 + 16 + 7 in
15 ins in the ground for
the Standard bar of
secs 32 ~~40~~ 33. marked
S.C. with 4 notches on
E and 2 notches on W

North through R 18 E.
ch:

Edges and raised, a
ground stone alongside
Pis. intractable
Sand. Rough rocky and
broken.

Soil. 4th rate

Timber Scubby Bush

^{at true point}
West on S Bdy see 32.

to 14° 15' E

Descend.

22.5' to rose mark 30 lks wide
to N. 20° E. and ascend

36.00 to rose point of spur base
N. 20 ft high and descend

40.00 Set a sandstone 30+12+8
in 22 ins in the ground for
^{the} 14 sec cor marked
14 S.E. on N face, and

4th Standard Parallel

chs

- raised a mound stone
alongside. P's impracticable.
- 47.00 Cross road 25-lks wide to
N.E. and ascend.
- 80.00 Set a Sandstone 24+10+6 ins
18 ins in the ground for
the Standard level, bases
31 and 32. marked S.C.
with 5 notches on E and
1 notch on W. edges and
raised a mound stone alongside.
P's impracticable
Land, dry, rough and Rocky
Soil; 4th rate, poor grazing
Timber Scrub brush

North through R 18 E.

chs

West on ^{on a line} S B 1/4 Sec 31

to 14° 15' E.

Ascend. gradually.

40.00 Set a post 3 ft. long 3 ins. diam with marked stone, 12 ins. in the ground for ^{Standard} Sec. Cor, marked 1836 on N face, dug pits 18 x 18 x 12 ins. S and W of post 5 1/2 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 30 x 30 x 8 ins 2 2 ins in the ground. for the Standard Cor. to Sp 19. 20. R 17 ^{and} 18 E. marked S.C. with 6 notches on N.E. and N. edges. and raised a mound stone along side
 Pils. ^{impracticable}
 Sand Rough & Holes.
 Soil. 1th rate Good Grass

June 18th 1883.

4th Standard Parallel.

his

From the Standard Cor. to
 Sp 17 N. Rs. 17+18 E. just
 established - I then
 West on ^{over a bridge} P & S. see @ 6.
 Pa. 14° 15' E.

Ascend.

40.00 Set a Sandstone 30+15+6 in
 22 ins in the ground for Standard
 14 sea cor. marked. 14 S. Cor
 N. face, and raised a
 mound stone alongside
 P & S impracticable.

44.00 Top of ridge bears N. 50 ft high
 and descend.

53.75 Cross break (in cañon) 25-
 lbs wide. ~~at~~ 50 ft deep and
 ascend.

80.00 Set a Sandstone 20+12+10
 ins. 15 ins in the ground
 for the Standard Cor. &

North through R. 17 E.

Ch's

see's 35 ^{and} 36, marked S.C.
 with, 1 notch on E. and
 5 notches on W. edges, dug
 pits - 18 + 18 + 12 ins. N.E.
 and W. of stone. 5 1/2 ft
 dist and raised a mound
 of earth 2 ft high 4 1/2 ft.
 base along side. Dis-
~~in~~ ~~struction~~
 Land Rough ^{and} Rocky.
 Soil: 4th rate.
 Scattering cedar brush

West ^{along line on} ~~an~~ South Ridge see 35 -
 Va 149. 45' E

Ascent.

1.50 Top of ridge has N. 20° W. 50

ft high ^{and} ~~ascent~~ ~~of~~ ~~ascent~~.

40.00 Set a sandstone 24 + 10 + 8 ins

4th Standard Parallel,

cks

- 18 ins in the ground ^{Standard} for ^{1/4} sec cor marked 14 S.B. on N. face. and raised a mound stone alongside
- 79.75 Cross track 20 lbs with 6 on N.W. and around.
- 80.00 Set a Sandstone 16+12+6 ins 11 ins in the ground for the standard cor. 2 seas 34 and 35, marked, S.B. with 2 notches on S end, 4 notches on N. Edges. and raised a mound stone alongside (Pits impracticable).
Land Rough and Rocky.
Soil. 4th rate.
Winter Scattering bed

North through R 17 E.

Chs.

West ^{ed true line on} of S. ~~of~~ 200 3 f.

Ta 14° 15' 8

Asced.

- 11.00 Top of Spur bears N.W.
20 ft high and descend.
- 40.00 Set a Sandstone 20+12+8 in
15 ins in the ground for Standard
1/4 sec cor. marked 1/4 S.C.
on N. face, and raised
a mound stone along side
This intractable.
- 53.63 Cross wash 30 lbs mile
(in cañon) to N. 30° W. and
ascend.
- 66.75 Cross wash 30 lbs mile (in
cañon) to N. E. and ascend.
- 80.00 Set a Sandstone, 18+9+8 in
12 ins in the ground for the
Standard Cor to sec 33
marked 3 f. marked S.C. with

4th Standard Parallel

cks

3 notches on P^{nd} W edge
and raised a mound of
earth 2 ft high 4×2 ft
base alongside Pit
impracticable.

Land Rough Broken and Rocky
Soil, 4th rate Grass poor
Timber. Scattering Cedar.

West on ^{on a long line} S 10th Sec 33
on 14⁰ 20' E

Ascend Gradually.

8.00

Top of Spur 3 ft high
and descend.

40.00

Set a Sandstone $2.4 + 20 + 8$ ins
18 ins in the ground for ^{Stamp} 14 Sec
con. marked 14 S. No. on
N. face. and raised a
mound stone alongside

Work through R 17 E.

Ch's

- 42.75 Pk. impracticable.
Cross wash 80 lbs with
to N. 25° E. and ascend.
- 67.00 Top of Spur bears N. 20° E.
40 ft high and descend
gradually.
- 77.15 Cross wash ^(in canyon) 25 lbs with
to N. 27° E. and ascend
- 80.00 Set a Sandstone 20+12+8 in
15-in in the ground for
the Standard Com. 6-sec
33 and 38, marked S. E.
with 4 marks notches on E
and 2 notches on Wedges
and raised a mound of
stone alongside. Pk's
impracticable.
- Sand. Rough & rocky.
with deep canyons
Soil. 300 yds. scant grass
scant timber

4th Standard Parallel

chs

West on ^{about 1/2 mile} ~~to~~ ^{to} Base. Sec 33

Pa 14° 30' E

Ascend

18.00 Top of Spur. bears N. 20° E.
30 ft high and descend.

29.25 East Base of cañon. (Chedler's fork) bears N. E. 95 ft deep.

From this point I send flag across cañon and after coming down I measure a base 3.00 chs south and find angle to flag to be 91.40° 30' W. which by calculation gives me 8.48 chs for width of cañon across cañon. ^{we} resume our

40.00 Set a sandstone 22+11+8 in
19 in in the ground for ^{stand} 14
see cov. marked 14 S. E. on

North through R. 17 E.

Chs

on N face, and raised a
mound stone alongside
Pits impracticable

80.00 Sit a Sandstone 24+11+8 ins
18 ins in the ground. for the
Standard Cor. to see's 31
and 32. marked S.C. with 3
notches on E end, 1 notch on
N. edges, and raised a
mound stone alongside
Pits impracticable.
Sand. Rough and Rocky,
Soil. 3rd Pale. in grass
Timber. cedar brush

West on, ^{a mile down} to see 31.

to 140° 45' E

Ascend? gradually.

17.25

N. E. edge of canon 350 ft deep

4th Standard Parallelch_s

about 650 ft west to
S.E. built stone mound
for witness point.

Offset 17.00 ch_s North
to avoid bend of canon, then
run west

43.00 Offset 17.00 back & line
then measuring back to
canon at

42.00 Set a sandstone 20+12+10 in
15 in in the ground, for
witness cor. ^{stand} use cor. marked
1/4 S.C. N.C. on N face,
and raised a mound,
stone alongside. This
infractible.
North of canon at this point
6.35-ch_s.

67.00 Top of ridge 50 ft high and
descend gradually.

North through R 17 E.

chs.

80.00 Set, a Sandstone 27+24+12 ins
 18 ins in the ground, for the
 Standard Cor to Sp's 17 N.
 R's. 16^{and} 17, E. marked S.C.
 with 6 notches on N. 8^{and} W.
 edges, and raised a
 mound of stone alongside
 it's impracticable.
 Land. Rolling^{and} Rocky.
 Soil. Br. rate. Good Grazing.
 No timber
 June 19th. 1880.

For final notes see
 Book N. 13.

No. 1281

U. S. Surveyor General's Office,

Tucson, Arizona,

July 17, 1884,

The foregoing Field Notes of the Survey of the

4th Standard Parallel North
 Through
 Township 17 North
 Ranges 17, 18 & 19 East

Of the Gila and Salt River Base and Meridian, Arizona, executed by M. N. Grant

Deputy Surveyor, under his contract of the Seventh day of August, 1882, having been

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

Royal A. Johnson
 Surveyor General.