

132d
21. X

BOOK 1329

No. 1329

1329

✓
4-671

FIELD NOTES
GENERAL LAND OFFICE.

*Retracing
4th Standard
Parallel N.
thro.
Rs. 14. & 15 E.*

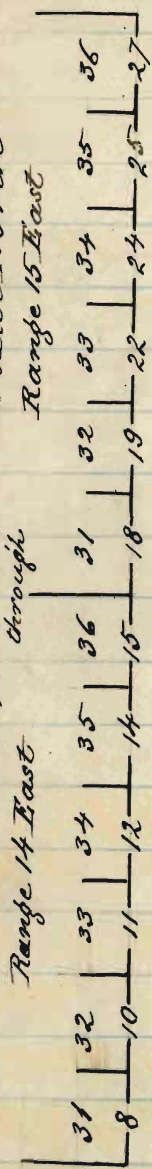
Index
Retracing 4th Standard
Parallel through
Range 14 E 5
" 15 E 18

BOOK 1329

No. 1329

Field Notes
of the
Retracing
of the
Fourth Standard Parallel North
through
Ranges Nos 14 & 15 East
of the
Gila and Salt River Baserd Meridian
in the
Territory of Arizona
as surveyed by
Philip Contzen
U. S. Deputy Surveyor
Under his Contract No 27
Dated February 10th 1893
Survey commenced Jan 9th 1894
Survey completed Jan 10th 1894

Index
Fourth Standard Parallel North



Retracing of

Fourth Standard Parallel North through R 14 E.
Chain

I begin at the Standard cor to townships 17 N. Ro. 14 & 15 E which is a limestone 12 x 4 ins and 5 ins above ground firmly set and marked with S.E. and 6 notches on N.E. & W. faces and mound of stone 1 1/2 ft high 2 ft base alongside.

Thence I run

S. 85° 43' W. on a random line on South boundary of Sec 36 in accordance with the course as given in the Field Notes furnished by the Surveyor General

to. 13° 51' E

40.00 After diligent search find pits (but no monument) which bear N 3° 4' W. 3 chs dist.

80.00 After diligent search find a

Retracing of The Fourth Standard

Chain

limestone 18x12x4 ins laying loose
 on the ground marked S. B. with
 1 notch on E and 5 notches on
 West edges and monument
 of stones along side which bears
 N. 2° 30' W. 5.99 chs dist.

Land level

Soil 2^d rate

Timber none.

S. 85° 43' W. on a sandstone vein on
 South boundary of Sec 35.

40.00 After thorough search find a limestone
 stone 10x3 ins firmly set 5 ins
 above ground with faint traces
 of pits E & W. of stone and
 small mound of earth along side
 Stone marked S B 1/4 and bears
 N. 30° 54' W. 9.02 chs dist.

Parallel North through Range 14 East

Chambers

Finding that the course of the Fourth Standard Parallel North T_{ps} 17 N through Range 14 East as given in the Field Notes furnished by the Surveyor General does not coincide with the line as found on the ground I proceed to the Standard Cor. of T_{ps} 17 N. R_s 13 & 14 E.

At the Standard Cor to T_{ps} 17 N R_s 13 & 14 E on Jan 9th 1894 at 12 M. I take an observation on the sun and find my instrument in perfect adjustment
Latitude $34^{\circ}50' N.$ $\text{Va } 13^{\circ}51' E.$

From the Standard Cor to T_{ps} 17 N R_s 13 & 14 E which is a stone 10x5 ins firmly set and 6 ins

Retracing of The Fourth Standard

Chains

above ground marked S.C. with
6 notches on N. E & W. faces and
mound of stone, which I re-set,
1 1/2 ft high 2 ft base along side
I run

East on South boundary of Sec 31
Pa. 13° 52' E.

Starting on level ground

0.57 Ascend Table mountain over
steep bluffs.

10.22 Top of Table mountain

39.31 Find a malpais stone bears 200th N. marked
S.C. 1/4 almost base on the
ground with mound of stone
along side for 1/4 Sec Cor. I reset
the stone which is 16 x 15 x 4 in
11 in in the ground for 1/4 Sec
Cor. at original place and
renew mound of stone 1 1/2 ft

Parallel North through Range 14 Coast

Chains

high 2 ft base alongside. Pits
impracticable.

- 39.47 Descend from Table Mountain
79.37 Find a malpais stone 7 1/2 m. N.
of line marked S6 with 5 notches
on N. and 1 notch on S. faces and
small mound of stone alongside
for stand over to Secs 31 & 32. As
the stone is improperly set &
reset it. It being 18 x 12 x 6 ins & set
it 12 ins in the ground at the
exact original cor. point but
showing 5 notches on E and 1 notch
on W. faces and renew mound
of stones 1 1/2 ft high 2 ft base alongside
Pits impracticable.

Land mountainous

Soil 2^d rate and worthless

Timber scattering cedar.

Mountainous land 79.39 chs

Retracing of the Fourth Standard

Chains

East on South boundary of Sec 32.

Va 13°52'E.

Descend from Table mountain

20.58 Enter valley bears N.E. and scrub cedars

40.83 Find a malpais stone, 12x4 ins firmly set 4 ins above ground marked

S.E. $\frac{1}{4}$ with mound of stone alongside, bearing N. 3 lks dist from line

77.08 Leave valley, leave timber.

81.58 Find a malpais stone 3 lks North of line feather to Secs 32 & 33 firmly set 8x8 ins and 5 ins above ground marked S.E. with 4 notches on E and 2 notches on W. faces and mound of stone alongside which I see now $1\frac{1}{2}$ ft high 2 ft base. ~~It is impracticable~~
Land mountainous & rolling
Soil 2^d rate

Timber, scrub cedar 56.50 chs.

Mountainous land 20.58 chs

Parallel North through Range 14 East

Bhains

East on South boundary of Sec. 33.

Pa. $13^{\circ}52'E$

Over rolling ground.

11.30 Cross trail bears NE.

40.39 Find a volcanic stone $2 \times 3 \times 4$ ins in place marked $SB \frac{1}{4}$ and a few small stones alongside. I therefore re-establish the $\frac{1}{4}$ sec. corner by setting a volcanic stone $15 \times 8 \times 8$ ins 10 ins in the ground for the $\frac{1}{4}$ sec. corner marked $SB \frac{1}{4}$ on N face and raised a mound of stone $1 \frac{1}{2}$ ft high 2 ft base alongside. Pits impracticable. Also destroy marks on small stone.

80.70 Find a small stone marked only with 3 swatches on E & W faces. The stone proving to be only $3 \times 2 \times 1$ ins with small mound of stones alongside. I reestablish this

Retracing of the Fourth Standard Chain

Cor. by setting in its original
place 3 lks South of line a
limestone $14 \times 12 \times 4$ ins 10 ins in
the ground for Standard Cor.
to Secs 33 & 34 marked S.C.
with 3 matches on E and W. faces
dry pits $18 \times 18 \times 12$ ins $5 \frac{1}{2}$ ft dist
N. E & W. of stone and raised
a mound of earth 2 ft high $4 \frac{1}{2}$ ft
base along side. Destroyed
marks on small stone found.

Land rolling

Soil 2^d and 3^d rates

Timber none.

East on South boundary of Sec 34
Va $13^{\circ} 52' E$.

Over gently rolling ground

40-71 Find 4 lks South of line traces

BOOK 1329

Parallel North through Range 14 East
Chains

of pits E & W. from sunken mound of earth. I therefore re-establish this Standard $\frac{1}{4}$ Sec Cor. by setting a malpais stone, marked S.C. $\frac{1}{4}$ sec cor., which is $16 \times 10 \times 4$ ins. 11 ins in the ground between the pits found $5\frac{1}{2}$ ft dist E & W. from them and renew pits $18 \times 18 \times 12$ ins. and mound of earth $1\frac{1}{2}$ ft high $3\frac{1}{2}$ ft base along side.

- 81.32 Find a limestone 2 lbs South of line, without any marks, 12×4 ins 6 ins above ground firmly set. Finding no other evidences of this Cor. after diligent search I reset the stone $18 \times 12 \times 4$ ins 12 ins in the ground for Standard Cor. to Secs 34 & 35 marked S.C. with 2 notches on E and 4 notches on West

Retracing of the Fourth Standard

Chains

face and raised a mound of
stone $1\frac{1}{2}$ ft high 2 ft base along side

Pits impropriate

Land level and rolling

Soil 2^d and 3^d rate.

Timber none.

East on South boundary of Sec 35
No. 13051¹/₆.

Over rolling ground.

40. 61. Found a limestone 10×3 in firmly
set 5 in above ground marked
SB $\frac{1}{4}$ for Standard $\frac{1}{4}$ Sec level
face with faint traces of pits C
& W of stone $5\frac{1}{2}$ ft dia and
sunken mound of earth
along side. I re-new pits
and mound of earth.

Parallel North through Range #4 East

81.30 Find a limestone loose on the ground 3/4 kts south of line marked S.C. with 1 notch on E and 5 notches on W. edges and small mound of stones alongside. I reset the stone $18 \times 12 \times 4$ ins 12 ins in the ground for Standard Cor to Secs 35 & 36 where found and renew the mound of stones $1\frac{1}{2}$ ft high 2 ft base alongside. Pets impracticable

Land rolling

Soil 2^d rate

Timber none.

East on South boundary of Sec 36.

Pa. $13^{\circ} 51' E$.

Over level ground.

Retracing of the Fourth Standard

40.16 Find faint traces of pits and sunken mound of earth. Diligent search failing to show any other evidences I re-establish this Stand.

$\frac{1}{4}$ Sec Cor by setting a limestone $14 \times 12 \times 3$ ins 10 ins in the ground marked $\frac{1}{4}$ S. C. on N. face and removed pits $18 \times 18 \times 12$ ins E & W of stone $5\frac{1}{2}$ ft diam and raised a mound of earth $1\frac{1}{2}$ ft high $3\frac{1}{2}$ ft base along side.

80.26 Find a sandstone 12×4 ins 6 ins above ground firmly set here at the back of Standard Township Cor to Tps 14 & 15 R. 14 & 15 East marked S. C. with 6 notches on N. E and W. faces and mound of stone $1\frac{1}{2}$ ft high 2 ft base along side.

Parallel North through Range 14 East

Land level

Soil 2^d rate

Timber, none.

General Description

In the westerly part the line runs across part of Table Mountain the rest is rolling and level land containing good grass but no water. There are no settlers in this Township but cattle and horses mostly belonging to the Hackknife Cattle Co are grazing here.

Retracing of the Fourth Standard Chains

From the Standard Cor. to Twp 17 N.

Rs 14 & 15 E. hereinbefore described

From

East on South boundary of Sec 31

Va 13° 50' E.

Across open country.

36.06 Cross trail bears E.

40.55 Find traces of pits and sunken mound of earth but no other evidences of this cor after thorough search. I therefore re-established the Standard $\frac{1}{4}$ Sec Cor. by setting a limestone $18 \times 15 \times 14$ ins 12 ins in the ground for Stand. $\frac{1}{4}$ Sec Cor. marked S.C. $\frac{1}{4}$ on N. face and renewed pits $18 \times 18 \times 12$ ins E & W of stone $5\frac{1}{2}$ ft diam. and mound of earth $1\frac{1}{2}$ ft high $3\frac{1}{2}$ ft base alongside.

Parallel North through Range 15 East

Thru

- 81-13 Find 2 lks south of line a lime stone $15 \times 10 \times 6$ ins base on the ground marked S.C. with 5 notches on E and 1 notch on W. faces and small mound of stone alongside I reset the stone 10 ins in the ground for Stand. Cor. to Secs 31 & 32 and renew the mound of stone $1\frac{1}{2}$ ft high 2 ft base alongside It's impracticable.
 Land rolling and level
 Soil 2^d and 3^d rates
 Timber, none.

East on South boundary of Sec 32.
 Pa 13³⁹ E.

Over rolling ground.

- 41-20 Find 4 lks N. of line a stone 4 ins above ground firmly set

Retrieving of the Fourth Standard
Chains

without marks and mound of stone alongside. Finding after thorough search no other evidences of this Stand $\frac{1}{4}$ Sec Cor. I reset the stone $14 \times 12 \times 6$ ins 10 ins in the ground for $\frac{1}{4}$ Stand Sec Cor marked S.B. $\frac{1}{4}$ on N face and renewed mound of stone $1\frac{1}{2}$ ft long 2 ft base alongside. Pits impracticable.

50.40 Edge of Clear Creek Lens N.P.C.
The banks of this creek being too steep and impracticable to chain across I send a flag to the nearest accessible point on line on the opposite bank of creek I then run a base line 12-30 chs to a point whence flag bears

Parallel North through Range 15 East
 81.00

S. $67^{\circ} 42' E$. which gives for distance
 across $\text{tang} \times \text{base}$ or

$$\begin{array}{r} \log \text{ tang} = 0,38707 \\ \log \text{ base} = 1,08991 \\ \hline 1,47698 = 30.00 \text{ chs} \end{array}$$

The whole distance from Stand Cor
 to Secs 31 & 32 will therefore be $50.40 +$
 30.00 chs making

80.40

East bank of Clear Creek

82.02

Find a sandstone improperly
 set marked S. C. with 4 notches
 on one face and 2 notches on
 the other and mound of stone
 along side. I therefore re-set the
 stone which is $18 \times 12 \times 8$ in 12 in
 in the ground for Stand Cor to
 Secs 32 & 33 marked S. C. with
 4 notches on E and 2 notches on
 N. face and renewed mound

Retracing of the Fourth Standard
 Chain

of stones $1\frac{1}{2}$ ft high 2 ft base
 alongside. It's impracticable
 Land rolling and broken
 Soil 2^d rate and worthless
 Timber none.

beat on South boundary of Sec 33.

to $13^{\circ}20' E$

Once rolling ground.

41.08

Find traces of pits and sunken
 mound of earth 4 lks South of
 line. After diligent search failing
 to find any other evidence of
 the cor I set a limestone $20 \times$
 18×3 ins. 15 ins in the ground
 for stand. $\frac{1}{4}$ Sec cor. marked S.C.
 $\frac{1}{4}$ on N. face, renewed pits 18
 $\times 18 \times 12$ ins $5\frac{1}{2}$ ft dist. E & W.

Parallel North through Range 15 East
 Chains

of stone, and raised a mound
 of earth $1\frac{1}{2}$ ft high $3\frac{1}{2}$ ft base alongside.

59.96 Cross trail bears E. N. E.

82.16 Find a limestone 5 in above
 ground 2 lks N. of line without
 visible marks and small mound
 of stone alongside. I therefore reset
 the stone which is $20 \times 16 \times 10$ in
 15 in in the ground for stand
 box to Secs 33 & 34 marked S 6
 with 3 notches on E & W. faces
 and renewed mound of stone
 $1\frac{1}{2}$ ft high 2 ft base alongside
 It is impracticable.

Land colling.

Soil 2^d and 3^d rate

Timber none.

Retracing of the Fourth Standard
Chains.

East on South boundary of Sec 34
Va 13° 15' E.

Over level ground.

8.06 Cross trail course N.E.

40.75 Find a limestone 5 ins above
ground firmly set with mound
of stone alongside 2 lks N. of line
No marks being visible nor any
other evidence of monument
being found after diligent search
I reset the stone which is 20 X 14 X
4 ins 15 ins in the ground per
S. 1/4 Sec 34. marked S.C. 1/4
on N. face and renewed mound
of stone and earth 1 1/2 ft high
2 ft base alongside.

81.59 Find a limestone 18 X 10 X 6 ins
loose on the ground marked
S.C. with 2 notches and 4 notches

Parallel North through Range 15 East
 Chanis

on opposite faces and mound
 of earth and stone alongside.

I therefore reset the stone 12 ins
 in the ground for Stand. Gov to
 Secs 34 & 35 marked S. C. with
 2 notches on E and 4 notches on
 W. faces and renewed mound
 of earth and stone $1\frac{1}{2}$ ft high 2 ft
 base alongside.

Land level

Soil 2^d rate

Timber none.

East on South boundary of Sec 35
 Ta 13° 11' E

Over level ground.

40.82. Find a stone 5 ins above
 ground firmly set with traces

Retracing of the Fourth Standard

of pits E & W. of stone and sunken mound of earth but no marks visible on stone. I therefore reset the stone for Stand $\frac{1}{4}$ Sec Cor marked S 6 $\frac{1}{4}$ on N face 11 ins in the ground, dug pits 18x18x12 ins E & W. of stone 5 $\frac{1}{2}$ ft dia and removed mound of earth 1 $\frac{1}{2}$ ft high 3 $\frac{1}{2}$ ft base alongside

81.60 Find a limestone 4 lks S. of line 5 ins above ground no marks being visible. I therefore reset the stone 20x14x3 ins 15 ins in the ground for Stand Cor. to Sec 35 & 36 marked S 6. with 1 notch on E and 5 notches on W. faces and raised a mound of stone 1 $\frac{1}{2}$ ft high 2 ft base alongside.

Parallel North through Range 15 East

covered with earth

Land level

Soil 2^d and 3^d rate. No timber

East on South boundary of Sec. 36

Ba $13^{\circ}12' E$.

Over level ground.

- 19.40 Cross trail course NE
- 31.50 Cross trail course NE
- 37.00 Cross trail course NE
- 40.42 Find a limestone 2 lbs N. of
line base on the ground.
I therefore reset the stone 18×14
 $\times 5$ ins 12 ins in the ground for
St. $\frac{1}{4}$ Sec cor which is marked
S 6 $\frac{1}{4}$ on N face and raised
a mound of stone covered with
earth $1\frac{1}{2}$ ft high 2 ft base along side

Retracing of the Fourth Standard

80.79 Find a sandstone, 2 lks N of
line 10x4 mis and 5 mis above
ground for Standard Township
crs. to Tps 17 N. R 15 & 16 E.
marked S 6 with 6 notches
N. E. & W faces and re-nerved
mound of stone covered with
earth $1\frac{1}{2}$ ft high 2 ft base alongside
Land level
Soil 2^d and 3^d rate
Timber none.

Jan 10th 1894.

General Description

Crossing the Westerly part of
the line is Clear Creek Cañon
with steep banks about 300 ft
high having an unfasting supply
of running water. The rest

Parallel North through Range 5 East

of the line crosses rolling and level land rather stony, no timber, but good grass whereon range the cattle and horses of the Haskknife Cattle Co. no settlers in the Townships either side of line.

Philip Cortzess
U. S. Dep. Sur

For Final Oaths
See Book No 40.

No. 1329

BOOK 1329

30

U. S. Surveyor-General's Office,

TUCSON, A. T., 188

The foregoing Field Notes of the ^{Retracing} ~~Survey~~ of
the fourth Standard Parallel
North, through Ranges 14 +
15 East of the

..... Gila and Salt River Meridian
in Arizona executed by
Philip Cortzer

U. S. Deputy Surveyor, under his contract dated
February 10, 1893
having been critically examined, the necessary correc-
tions and explanations made, the said Field Notes and
the surveys they describe are hereby approved.

Levi S. Manning
U. S. Surveyor-General
for the Territory of Arizona.