

CONTRACT N^o 55
P. CONTZEN

SANTA CRUZ GUIDE MER.
(T. 24 S - R^s 12 & 13 E)

1555

1555

4-671

FIELD NOTES
GENERAL LAND OFFICE.

Resurvey
Santa Cruz Guide Mer.
through
Ranges 12^{3/4} 13 East.
Tp. 24 South.

Copies
Compared

1555-

BOOK 1555

Field notes
of the Resurvey of the
Santa Cruz Guide Meridian
through
Township No 24. S.

Between Ranges No. 2 and 13 East
of the
Gila & Salt River Base of Meridian
in the

Territory of Arizona
as surveyed by
Philip Coutzen
U.S. Deputy Surveyor
under his contract No 56
Dated ^{June} July 23. 1899

Survey commenced Dec 5. 1899

Survey completed Dec. 5. 1899

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Santa Cruz Guide
 Merid Through
 P. 24 South 4

Ret. P. 12 & 13 E.

1 5 6

P. 24 S. P. 12 E. 12 9 7

13 12 18

16

24 19

Mexico

25 30

36 31

Sanita Cruz Guide Mer. W. Bdy.
Chains

Having tested my instrument on the W. Boundary of T. 24 S. R. 14 E. and having found the same in perfect adjustment I proceed to the cor. to T. 23 and 24 S. R. 12 and 13 E. which is a post marked and witnessed as described by the surveyor General; the Post being badly decayed I destroy the same and reestablish it at the same point as follows: Set a granite stone 18x8x8 ins. 12 ins. in the ground for cor to T. 23 and 24 S. R. 12 and 13 E. marked with 6 notches on N. S. E and W. edges. and raise a mound of stone 2½ ft. base 1½ ft high

T. 24 S. R. 13 E.

chains.

S. of cor. Pits impracticable.
 Dec 5, 1899. at 7^h 55^m a.m. t.
 I set off $31^{\circ} 23'$ on lat. arc;
 $22^{\circ} 24'$ on decl. arc, and
 determine a true meridian
 with the solar, at the cor.
 of Tps 23 and 24 S. R's 12 and
 13 E. Thence I run
 South, bet. secs. 1 and 6.
 Over mountainous land
 ascending.

- 13.50 Top of ridge bears E and W;
 descend
- 18.75 Gulch 6 lks. wide course
 Easterly; ascend
- 24.50 Top of ridge bears E and W;
 descend
- 28.00 Gulch 6 lks. wide, course
 S. Easterly

Santa Cruz Guide Mer.

chains

36.00

Enter Valley bears N. Easterly.
Difference between measure-
ments of 40.00 chs. by two sets
of chainmen is .20 lks.;
position of middle point by
1st set 39.90 chs. by
2nd set 40.10 chs.; the mean
of which is.

40.00

Set a Granite stone 18x8x8 ins
12 ins. in the ground for $\frac{1}{4}$ sec.
cor. marked $\frac{1}{4}$ l. on W. face.
6. on E. face, from which
an Oak 24 ins. diam. bears
N $18^{\circ}\frac{1}{4}$ E 96 lks. dist. marked
 $\frac{1}{4}$. 8. 6. B.T.

An Oak 22 ins. diam. bears
N $32^{\circ}\frac{3}{4}$ W. 106 lks. dist. marked
 $\frac{1}{4}$. 5. 1. B.T.

40.10

Leave valley and ascend

W. Body T24S R13E. continued
chains.

42.50 Enter draw course N Easterly

43.80 Leave draw; thence along
W. slope of ridge

52.00 Top of ridge bears NE and SW;
descend

57.00 Gulch 10 lks. wide, course N Easterly;
ascend

69.00 Top of ridge bears NE and SW.
descend

75.20 Gulch 10 lks. wide, course
N Easterly; ascend.

Diff. between measurements
of 80.00 chs. by two sets of
chainmen is 40 lks; position
of middle point

By 1st set, 79.80 chs.

By 2nd set, 80.20 chs. - the mean
of which is

80.00 Set a granite stone 18x8x6 ins.

Santa Cruz Guide Mer.
chains

12 ins. in the ground for cor.
of secs. 1, 6, 7 and 12 marked
with 1 notch on N. and 5 notches
on S. edges, from which.

a Black oak 6 ins. diam. bears
N $13\frac{1}{2}^{\circ}$ E. 61 lks. dist. marked

T. 24 S. R. 13 E. S. 6. B. T.

a white oak 14 ins. diam. bears
S 41° E. 54 lks. dist. marked

T. 24 S. R. 13 E. S. 7. B. T.

a Black oak 6 ins. diam. bears
S $13\frac{1}{4}^{\circ}$ W. 57 lks. dist. marked

T. 24 S. R. 12 E. S. 12. B. T.

a Black oak 20 ins. diam bears
N 37° W. 39 lks. dist. marked

T. 24 S. R. 12 E. S. 1. B. T.

Land mountainous and level
Soil, gravelly; 2nd and 3rd rate.
Timber, oak, good grass.

N. Bdy. T24S, R13E, continued

chains

Mountainous Land 74.60 chs.

South, bet. secs. 7 and 12,
over mountainous land
ascending

1.20 Top of ridge bears E and W;
descend

5.10 Gulch 5 lks. wide, course Easterly;
ascend

7.50 Top of ridge bears E and W; descend

10.20 Gulch 10 lks. wide, course S. Easterly

13.50 Gulch 8 lks. wide course, N. Easterly;
ascend abruptly.

18.60 Top of ridge bears NE and S Westerly

28.50 Cañon 100 lks. wide, course
N. Easterly; ascend

36.00 Top of ridge bears NE and
SW

38.50 Canyon 20 lks. wide, course

Santa Cruz Guide Mer.
chains.

N. Easterly; ascend.

Difference between measurements
of 40.00 chains, by two sets of
chainmen is 38 lks. position
of middle point

By 1st set, 39.81 chs.

By 2nd set, 40.19 chs. the mean
of which is

40.00

Set a granite stone 18x10x6 ins.
12 ins. in the ground for $\frac{1}{4}$ sec
cor. marked $\frac{1}{4}$ 12 on W. face
7 on E. face, from which
a Black oak 6 ins. diam. bears
N60°E. 47 lks. dist. marked
 $\frac{1}{4}$ S. 7. B.T.

a white oak 8 ins. diam. bears
S18 $\frac{1}{2}$ °W. 25 lks. dist. marked
 $\frac{1}{4}$ S. 12. B.T.

47.50

Top of ridge, bears NE and SW.

W. Bdy, T24, S, R13E, continued

chains

53.00

Canyon 60 lks. wide, course
N. Easterly; ascend

63.00

Top of high ridge bears
NE and SW.

74.20

Gulch 10 lks. wide, course N. Easterly
Difference between measurements
of 80.00 chs. by two sets of
Chainmen, 28 lks. position
of middle point

By 1st set, 79.86 chs.

By 2nd set, 80.14 chs. the mean
of which is

80.00

Set a Granite stone 18x12x10 ins.
12 ins. in the ground for cor.
of secs. 7, 12, 13 and 18.
marked with 2 notches on
N. and 4 notches on S. edges
from which

An oak 7 ins. diam. bears

Santa Cruz Guide Mer
chains

N 59 $\frac{1}{2}$ ° E. 119 lks. dist. marked

T. 24 S. R. 13 E. S. 7. 13. T.

An oak 6 ins. diam. bears

S 26 $\frac{3}{4}$ ° E. 73 lks. dist. marked

T. 24 S. R. 13 E. S. 18. 13. T.

An oak 10 ins. diam. bears

S 40 $\frac{1}{2}$ ° W. 61 lks. dist. marked

T. 24 S. R. 12 E. S. 13. 13. T.

An oak 7 ins. diam. bears

N 6° W. 69 lks. dist. marked

T. 24 S. R. 12 E. S. 12. 13. T.

Land mountainous

Soil, gravelly; 3rd and 4th rate

Timber, oak. good grass.

Mountainous land 80. chs.

1. South, bet. secs. 13 and 18
over mountainous land
ascending.

W. Bdy, T24S, R13E, continued

chains

4.00 Top of ascent; descend along
E. slope

16.00 Gulch 10 lks. wide, course
SEasterly

22.00 Gulch 10 lks. wide, course SEasterly

26.20 Gulch 10 lks. wide, course Easterly

28.00 Gulch 20 lks. wide, course
NEasterly; ascend

30.25 Gulch 10 lks. wide, course Northerly
Difference between measurements
of 40.00 chs. by two sets of
chainmen is 12 lks. position
of middle point to
By 1st set, 39.94 chs
By 2nd set, 40.06 chs. the mean
of which is.

40.00 Set a granite stone 18x10x6 ins.
12 ins. in the ground for $\frac{1}{4}$
Sec. cor. marked $\frac{1}{4}$ 13 on

Santa Cruz Guide Mer
chains

- W. face. 18 on E. face, from
which
an oak 6 ins. diam. bears
S 5° E, 38 lks. dist. marked
1/4 S. 18. 13.T.
- An oak 7 ins. diam. bears
S. 17° W. 33 1/2 lks. dist. marked
1/4 S. 13. 13.T.
- 45.00 Top of ridge bears NE and
SW: descend
- 48.75 Gulch 10 lks. wide, course Easterly;
ascend
- 51.50 Top of ridge bears NE and
SW: descend
- 62.00 Wash 10 lks. wide, course
S. Easterly; ascend
- 63.50 Top of ascent and descend
- 69.75 Gulch 20 lks. wide, course
N. Easterly

W. Bdy. T. 24 S. R. 13 E. continued
chains

73.00

Trail, bears NE and SW.

77.50

Top of ridge bears E and
W: descend

Difference between measurements
of 80.00 chs. by two sets of
chainmen, 22 fts. position of
middle point

By 1st set, 79.89 chsBy 2nd set 80.11 chs. the mean
of which is

80.00

Set a granite stone 18x12x8 ins.
12 ins. in the ground for cor. of
secs. 13, 18, 19 and 24. marked
with 3 notches on N. and S. edges.
from which

An oak 12 ins. diam. bears
N $17\frac{1}{2}^{\circ}$ E. 99 fts. dist. marked
T 24 S. R. 13 E. S. 18. B. T.

An oak 14 ins. diam. bears

Santa Cruz Guide Mer,
chains

S $29\frac{1}{2}^{\circ}$ E. 12 lks. dist. marked

T 24 S. R 13 E. S. 19. B. T.

An oak 7 ins. diam. bears

S $11\frac{1}{2}^{\circ}$ W 13 1 lks. dist. marked

T 24 S. R 12 E. S. 24. B. T.

An oak 12 ins. diam. bears

N $85\frac{1}{4}^{\circ}$ W. 7 1 lks. dist. marked

T 24 S. R. 12 E. S. 13. B. T.

Land Mountainous.

Soil, gravelly. 2nd and 3rd rate

Timber. oak

Mountainous Land 80. chs.

South, bet seas 19 and 24.

Over mountainous land

Descending.

2.75

Gulch 6 lks. wide, course Easterly; ascend

Difference between measurements
of 8.60 chs. by 2 sets of chainmen

W. Bdy. T24S, R13E. continued

02 lks. position of middle point

By 1st set. 8.59 chs

By 2nd set 8.61 chs. the mean of which is

8.60

Intersect the International Boundary line between the United States and Mexico at a point $N 89^{\circ} 48' E$

54.22 chs. dist. from Iron Monument No 126.

Set a Granite stone $18 \times 10 \times 4$ ins
12 ins in the ground for closing cor. to secs. 19 and 24 marked C.C. on N. face, 19 on E. face MEX on S. face, 24 on W. face. from which an oak 8 ins. diam. bears $N 11 \frac{1}{4}^{\circ} E$, 111. lks. dist. marked

Paula Cruz Guide Mer. W. Bdy T24S R. 13 E.
chains.

C.C. S. 19. B.T.

An oak 8 ins. diam. bears
N 40 $\frac{3}{4}$ ° W. 94 lks. dist. marked

C.C. S. 24. B.T.

Land mountainous.

Soil gravelly; 3rd rate

Timber, oak

Mountainous Land 8.60 cho

Dec. 5. 1899

General Description

This line runs over high ridges
and deep gulches. There is good
grass and oak timber along
this line. The land in Township
24S. R. 12E is mountainous
covered with good oak timber.

Philip Conzen
U. S. Deputy Surveyor

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BOOK 1555

U. S. Surveyor-General's Office,

Tucson, Arizona, Aug. 4, 1900.

The foregoing field notes of the sur-

vey of *a portion of the*
Santa Cruz Guide Menden
T 242, Rs. 12 and 13 E.

of the G. & S. R. B. & N., Arizona, ex-
ecuted by

PHILIP CONTZEN, D.S.

under his Contract No. 55, dated June 23,
1899, having been critically examined,
and the necessary corrections and expla-
nations made, the said field notes and
the surveys they describe, are hereby ap-
proved.

George Christ

U. S. Surveyor-General.

Comm. approved Feb'y 4-1901.

Filed Feb'y 9-1901.