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1559

BOOK 1559

BOOK 1559

4-671

FIELD NOTES
GENERAL LAND OFFICE.

Santa Cruz Guide

Meridian

→ through ←

Tps 11 ^{AND} 12 South

bet. R's. 12 ^{AND} 13 E.

1559

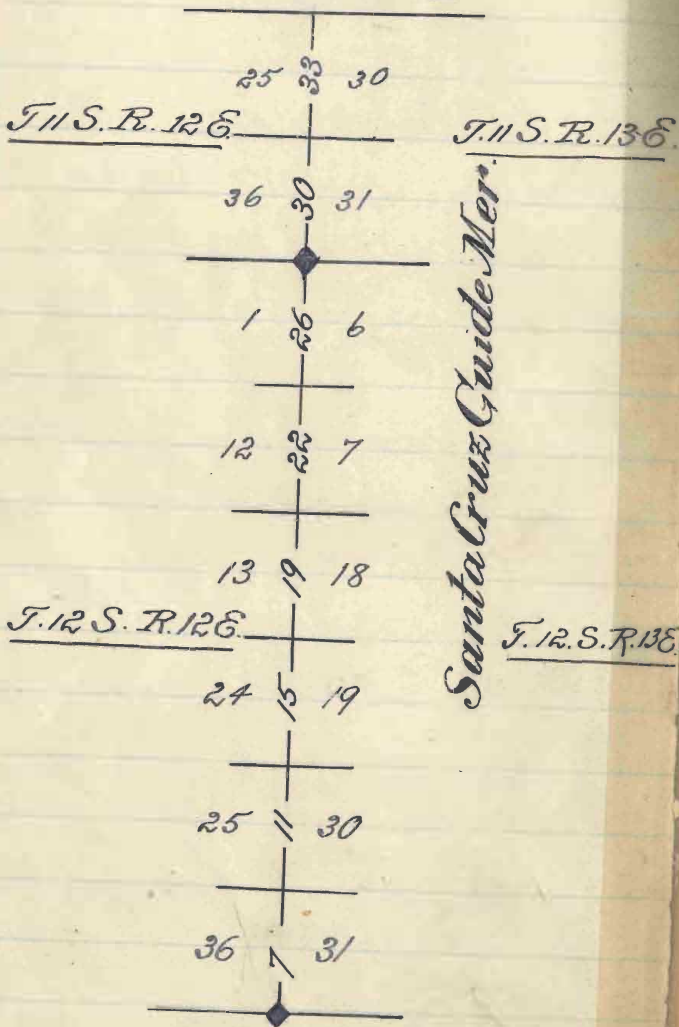
BOOK 1559

Field-Notes
of the survey of the
Santa Cruz Guide Meridian
through
Townships No. 11²/₂ 12²/₂ South
Between Ranges No. 12²/₂ 13²/₂ East
of the
Gila and Salt River Base and
— Meridian —
in the
Territory of Arizona,
as surveyed by
Philip Cortzen,
U. S. Deputy Surveyor,
Under his Contract No. 35,
Dated February 5, 1895
Survey commenced June 27, 1895
Survey completed June 27, 1895

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Book No. 1559

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 Santa Cruz Guide Meridian through
 Chains

I begin at the cor. of Tps 12 and 13 S. Rs. 12 and 13 E. which is a stake lying on the ground, without marks; before I proceed to reestablish said cor. I test its location by the connections given in the Southern Pacific Railroad survey and I find that the same practically agree. I destroy all traces of the old cor. and reestablish it at the same point, as follows:

Set a volcanic stone 18x10x10 ins. 12 ins. in the ground for cor. of Tps

Trs. 12 S. bet. Rs. 12 and 13 E

ains

12 and 13 S, R's 12 and 13 E,
marked with 6 notches
on each edge; from which

A mesquite 6 ins. diam
bears $N 1 \frac{3}{4}^{\circ} E$, 164 lks. dist,
marked T. 12. S. R. 13 E, S.
31. B. T.

A mesquite 6 ins diam. bears
 $S 49 \frac{1}{2}^{\circ} E$, 377 lks. dist,
marked T. 13 S. R. 13. E.
S. 6. B. T.

A mesquite 4 ins. diam
bears $S 82 \frac{1}{4}^{\circ} W$. 179 lks.
dist; marked T. 13 S. R.
12 E. S. 1. B. T.

A mesquite 4 ins. diam
bears $N 68^{\circ} W$. 241 lks. dist
marked T. 12. S. R. 12 E.
S. 36. B. T.

Santa Cruz Guide Meridian through
Chains

At this corner, June 27,
 1895. at $12^{\text{h}} 58^{\text{m}}$ a. m.

b. m. t., I observe Polaris
 at eastern elongation
 in accordance with
 instructions in the
 manual, and mark
 the point in the line
 thus determined by an
 iron pin set in the ground
 5.00 chs. north of my
 station

June 27. At $6^{\text{h}} 15^{\text{m}}$ a. m.
 I lay off the azimuth
 of Polaris, $1^{\circ} 28'$ to the
 west, and mark the
 True Meridian thus
 determined by a cross

7
 Tps 12 S, bet. Rs. 12 and 13 E - Continued

Chains

on a stone firmly set
 in the ground, west
 of the point established
 last night.

The magnetic bearing
 of the true meridian
 is $N 12^{\circ} 44' W$, which
 reduced by the table
 on page 100 of the
 manual gives the
 mean mag. decl. 12°
 $42' E$.

From the Tps. cor. I run
 North, bet. secs. 31 and 36
 Over level and rolling land,
 through scattering timber

3.00 Trail bears N.E. and S.W.

24.65 Road from Success, bears
 $N 85^{\circ} W$ and $S 85^{\circ} E$

Santa Cruz Guide Meridian through
Chains

33.84 Old Road bears $N87^{\circ}W$ and $S87^{\circ}E$

Difference between measurements of 40 chs. by two sets of chainmen is 4 lks. position of middle point

By 1st set, 39.98 chs.

By 2nd set 40.02 chs. the mean of which is

40.00 Set a mesquite post 3 ft. long, 3 ins. sq. with marked stone 24 ins. in the ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ S. on N. face; from which a mesquite 10 ins. diam bears $S71\frac{1}{4}^{\circ}E$, 134 lks. dist. marked $\frac{1}{4}$ S. B. T. no other tree within limits, dig pits ^{18x18x12 ins} N. and S. of post.

Tps. 12 S. bet. Rs. 12 and 13 E - Continued

Chains

- 3 ft. dist. and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, W. of corner
- 44.00 Road bears $N80^{\circ}W$ and $S80^{\circ}E$
- 61.70 Trail bears N.E. and S.W
- 69.00 Ascend mesa
- 73.25 Dry wash, ^{10 lks wide} course S. S. W
- 75.00 Top of mesa bears E. and W.

Difference between measurements of section by two sets of chainmen is 8 lks; position of middle point

By 1st set, 79.96 chs.

By 2nd set, 80.04 chs, the mean of which is

- 80.00 Set a volcanic stone $15 \times 10 \times 8$ ins, 10 ins. in the ground for cor. of secs. 25, 30, 31 and 36,

Santa Cruz Guide Meridian, through
Chains

marked with 5 notches
on N. and 1 notch on S.
edges; from which
An ironwood 7 ins. diam
bears $N 7^{\circ} E$, 60 Mts. dist.,
marked T. 12 S. R. 13 E.
S. 30. B. T.

An ironwood 4 ins. diam
bears $S 44 \frac{3}{4}^{\circ} E$, 72 Mts.
dist.; marked T. 12 S. R.
13. E, S. 31. B. T.

An ironwood 10 ins. diam
bears $S 63 \frac{3}{4}^{\circ} W$, 86 Mts. dist.,
marked T. 12 S. R. 12 E.
S. 36. B. T.

An ironwood 6 ins. diam
bears $N 38^{\circ} W$, 126 Mts. dist.,
marked T. 12 S. R. 12 E.
S. 25. B. T.

Land level

Tps. 12 S. Rs 12 and 13 E - Continued
Chains

Soil, rich and gravelly loam,
1st and 3rd rate

Timber, ironwood, mesquite and palo verde

North, bet. secs. 25 and 30

Over rolling land, through scattering timber and undergrowth

3.80 Dry wash, 4 lks. wide, course S.W.

36.00 Dry wash, 8 lks. wide, course S.W.

39.15 Dry wash, 20 lks. wide, course S.W.

Difference between measurements of 40 chs, ^{by two sets of chainmen} is 6 lks., position of middle point

By 1st set, 40.03 chs

By 2nd set, 39.97 chs, the mean of which is

Santa Cruz Guide Meridian through

Chains

40.00

Set a mesquite post
3 ft long, 3 ins. sq. with
marked stone 24 ins.
in the ground for $\frac{1}{4}$
sec. cor. marked $\frac{1}{4}$ S.

on W. face, from which

An ironwood 5 ins. diam.
bears $N 21^{\circ} E$, 151 lks. dist.,
marked $\frac{1}{4}$ S. B. T.

An ironwood 6 ins. diam.
bears $S 78^{\circ} W$, 113 lks. dist.,
marked $\frac{1}{4}$ S. B. T.

41.20 Dry wash, 6 lks wide, course S.W.

41.54 Road bears N.E. and S.W.

50.70 Dry wash, 10 lks wide, course S.W.

56.65 Dry wash, 20 lks wide, course S.W.

62.76 Dry wash, 4 lks wide, course S.W.

66.99 Dry wash, 4 lks wide, course S.W.

71.20 Dry wash, 6 lks wide, course S.W.

Typ. 12 S. bet. R's 12 and 13 E - Continued
Chains

77.87 Trail bears N. E. and S. W

79.00 Dry wash 15 Mts wide, course S. W

Difference between
measurements of 80 chs
between two sets of
chainmen is 8 Mts, po-
sition of middle point,
By 1st set, 79.96 chs.

By 2nd set 80.04 chs, the
mean of which is

80.00 Set a volcanic stone
15 x 12 x 8 ins., 10 ins. in
the ground, for cor. of
secs. 19, 24, 25 and 30,
marked with 4 notches
on N. and 2 notches on S.
edges, from which
An ironwood 4 ins. diam.
bears N 38° E, 99 Mts. dist.,

Santa Cruz Guide Meridian through
Chains

marked T. 12 S. R. 13 E.

S. 19 B. T

An ironwood 18 ins. diam
bears S 63 1/4° E, 105 lbs. dist.
marked T. 12 S. R. 13 E. S. 30
B. T.

An ironwood 14 ins. diam
bears S 38° W, 59 lbs. dist.,
marked T. 12 S. R. 12 E. S.
25 B. T

An ironwood 6 ins. diam
bears N 77 3/4° W, 99 lbs. dist.
marked T. 12 S. R. 12 E.
S. 24 B. T.

Land, rolling
Soil, gravelly loam; 3rd rate
Timber, ironwood and
palo verde; undergrowth
ironwood and palo verde.

Tps. 12 S. bet. Rs. 12 and 13 E. - Continued
Chains

Cholla and giant cactus.

North, bet. secs. 19 and 24
Over rolling land
through scattering timber
and some undergrowth

- 3.90 Dry wash, 1.70 lks wide, course W.
4.30 Dry wash, 25 lks wide, course S.W.
11.29 Trail bears N.E. and S.W.
13.25 Dry wash, 30 lks wide, course S.W.
18.30 Dry wash, 30 lks wide, course S.W.
21.52 Dry wash, 10 lks wide, course S.W.
24.66 Trail bears N.E. and S.W.
33.85 Dry wash 10 lks wide, course S.W.

Difference between measure-
ments of 40 chs. by two
sets of chainmen is 6 lks,
position of middle
point

Santa Cruz Guide Meridian through
Chains

By 1st set 39.97 chs.

By 2nd set 40.03 chs, the
mean of which is

40.00 $\frac{1}{4}$ sec. pt. falling in
the middle of dry wash
60 lks. wide, course S. W.
therefore at

40.43 Set a mesquite post
3 ft. long, 3 ins. sq. with
marked stone 24 ins.
in the ground, for witness
cor. to $\frac{1}{4}$ sec. cor., marked
W.C. $\frac{1}{4}$ S., on W. face; from
which

A palo verde 6 ins. diam.
bears $N 80 \frac{1}{4}^{\circ} W$, 106 lks. dist.,
marked W.C. $\frac{1}{4}$ S. B. 5

An ironwood 14 ins. diam.
bears $S 76 \frac{3}{4}^{\circ} E$, 112 lks. dist.,

Spss 12 S. bet. Rs. 12 and 13 E - Continued

Chains

marked W. C. 1/4 S. B. T.

54.10 Dry wash 25 lks. wide, course S.W.

66.55 Dry wash 20 lks wide; course S.W.

73.10 Trail bears N.E and S.W

Difference between measurements of 80 chs. by two sets of chainmen is 16 lks, position of middle point

By 1st set, 79.92 chs.

By 2nd set, 80.08 chs, the mean of which is

80.00 Set a volcanic stone 12 x 10 x 8 ins., 8 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 ironwood 14 ins. diam.

Santa Cruz Guide Meridians through
Chains

bears $N 46\frac{1}{2}^{\circ} E$, 213 lks. dist.,
 marked T. 12 S. R. 13 E. S. 18. B. T.

A mesquite 8 ins. diam bears
 $S 20^{\circ} E$, 213 lks. dist., marked
 T. 12 S. R. 13 E. S. 19. B. T.

An ironwood 8 ins. diam
 bears $S 61^{\circ} W$, 80 lks. dist.,
 marked T. 12 S. R. 12 E. S. 24. B. T.

A mesquite 15 ins. diam. bears
 $N 87\frac{1}{4}^{\circ} W$, 176 lks. dist., marked
 T. 12 S. R. 12 E. S. 13. B. T.

Land, rolling
 Soil, sandy and gravelly
 loam; 3rd rate

Timber, ironwood, palo-
 verde and mesquite;
 undergrowth ironwood.
 Giant cactus.

Apr 12 S. bet Rs 12 and 13 E - Continued

Chains

- North bet. secs 13 and 18
Over rolling land, through
scattering timber.
- 1.75 Dry wash, 14 lks wide, course S.W.
8.80 Trail bears N.E. and S.W.
9.67 Dry wash, 5 lks wide, course S.W.
15.63 Dry wash, 10 lks wide, course W.
17.44 Trail bears N.E. and S.W.
18.30 Dry wash, 15 lks wide, course S.W.
22.85 Dry wash, 10 lks. wide, course S.W.
26.00 Dry wash, 10 lks. wide, course S.W.

Difference between measure-
ments of 40 chs. by two
sets ^{of chainmen}, is 10 lks, position
of middle point

By 1st set, 39.95 chs.

By 2nd set, 40.05 chs, the
mean of which is

40.00 Set a mesquite post

Santa Cruz Guide Meridian, through
Chain

3 ft. long, 3 ins. sq. with
marked stone 24 ins. in
the ground for $\frac{1}{4}$ sec.
cor. marked $\frac{1}{4}$ S.

on W. face; from which
a mesquite 5 ins. diam
bears $N 76 \frac{3}{4}^{\circ} E$, 100 lbs. dist.
marked $\frac{1}{4}$ S. B. F.

An ironwood 4 ins. diam
bears $S 60^{\circ} W$. 50 lbs. dist.,
marked $\frac{1}{4}$ S. B. F.

45.60 Dry wash, 30 lbs wide, course S.W.

50.00 Dry wash, 10 lbs wide, course S.W.

54.60 Dry wash 10 lbs wide, course S.W.

64.80 Dry wash 30 lbs wide, course S.W.

74.76 Dry wash 5 lbs wide, course S.W.

Difference between measure-
ments of 80 ch₂ ^{by two sets of chainmen} is 8 lbs,
position of middle point

Tps. 12 S. bet Rs. 12 and 13 E. - Continued

Chains

By 1st set, 79.96 chs.,

By 2nd set, 80.04 chs., the
mean of which is

80.00

Set a sandstone 16x12x10
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

A mesquite 6 ins. diam
bears N 25½° E, 220 lks. dist.,
marked T. 12 S. R. 13 E. S. 7.

B. T.

An ironwood 6 ins. diam
bears S 50½° E, 82 lks. dist.,
marked T. 12 S. R. 13 E. S. 18

B. T.

A mesquite 10 ins. diam

Santa Cruz Guide Meridian through
Chains

bears $S 67 \frac{3}{4}^{\circ} W$, 293 lks. dist.,
marked T. 12 S. R. 12 E. S.
13. B. T.

A mesquite 6 ins. diam.
bears $N 41 \frac{1}{2}^{\circ} W$, 98 lks. dist.,
marked T. 12 S. R. 12 E. S.
12. B. T.

Land, rolling

Soil, gravelly loam, ^{3rd} rate
Timber, ironwood, mes-
quite and palo verde.
Cholla and giant cactus.

North. bet sees. 7 and 12

Over rolling land, through
scattering timber

- 46 Dry Wash 10 lks wide, course W
17.60 Trail bears N.E. and S. W
20.00 Dry Wash 15 lks wide, course S. W

Tps. 12 S. bet. Rs. 12 and 13 E - Continued

Chains

- 21.88 Trail bears $N86^{\circ}E$ and $S86^{\circ}W$
 25.60 Dry wash 15 lks. wide, course $S\frac{1}{2}W$
 28.70 Trail bears $N.E.$ and $S.W.$
 30.82 Dry wash 8 lks wide, course $S.W.$
 32.34 Dry wash 15 lks wide, course $S.W.$
 34.90 Dry wash 10 lks wide, course $S.W.$

Difference between
 measurements ^{of 40chs.} by two
 sets of chainmen is 6 lks.
 position of middle
 point

By 1st set, 39.97 chs.,
 By 2nd set, 40.03 chs., the
 mean of which is

- 40.00 Set a mesquite post
 3 ft. long, 3 ins. sq. with
 marked stone 24 ins.
 in the ground for $\frac{1}{4}$
 sec. cor. marked $\frac{1}{4} S$

Santa Cruz Guide Meridian, through
Chains

on W. face, from which
A mesquite 5 ins. diam. bears
 $N 38 \frac{3}{4}^{\circ} E$, 119 lks. dist., marked
 $\frac{1}{4}$ S. B. T.

An ironwood 6 ins. diam.
bears $S 26 \frac{1}{4}^{\circ} W$, 132 lks. dist.,
marked $\frac{1}{4}$ S. B. T.

48.15 Dry wash, 30 lks. wide, course S. W.

68.60 Dry wash, 10 lks. wide, course S. W.

73.69 Dry wash, 30 lks. wide, course S. W.

Difference between
measurements of 80 chs
by two sets of chainmen
is 8 lks., position of
middle point

By 1st set, 79.96 chs.,

By 2nd set 80.04 chs., the
mean of which is

80.00 Set a sand stone 15 x 8 x 6

Typo 12 S. bet. Rs. 12 and 13 E - Continued
Chains

ins, 10 ins. in the ground
for cor. of secs. 1, 6, 7 and
12, marked with with
1 notch on N and 5 notches
on S. edges, from which
A mesquite 5 ins. diam
bears N $78\frac{1}{2}^{\circ}$ E, 97 lks. dist;
marked S. 12 S. R. 13 E.

S. 6. B. T.

An ironwood 10 ins. diam
bears S $69\frac{1}{2}^{\circ}$ E, 60 lks. dist;
marked S. 12 S. R. 13 E.

S. 7 B. T.

A mesquite 6 ins. diam.
bears S 22° W, 126 lks. dist;
marked S. 12 S. R. 13 E.

S. 12. B. T.

An ironwood 4 ins. diam
bears N $64\frac{3}{4}^{\circ}$ W, 115 lks. dist;

Santa Cruz Guide Meridian through
Chains

marked S. 12 S. R. 12 E.
S. 1. B. 5.

Land, rolling

Soil, sand and gravelly
loam, 3rd rate

Timber, mesquite and
ironwood.

Some giant cactus

North, bet. secs 1 and 6

Over rolling land,
through scattering
timber and undergrowth

- | | |
|-------|-------------------------------------|
| .25 | Dry wash 5 lks. wide, course S. W. |
| 4.80 | Dry wash 10 lks. wide, course S. W. |
| 12.40 | Dry wash 15 lks. wide, course S. W. |
| 21.80 | Trail bears N 88° E and S 88° W |
| 25.00 | Dry wash 5 lks. wide, course S. W. |
| 33.20 | Trail bears N. E and S. W |

Tps 12 S bet. Ro. 12 and 13 E - Continued

Chains

33.80

Dry wash 15 lks. wide, course S.W.

Difference between
measurements of 40
chs. by two sets of
chainmen is 8 lks., posi-
tion of middle point

By 1st set, 40.04 chs.

By 2nd set, 39.96 chs., the
mean of which is

40.00

Set a sand stone 15 x 10 x 6
ins., 10 ins. in the ground
for $\frac{1}{4}$ sec. cor., marked
 $\frac{1}{4}$ on W. face, from which
a palo verde 6 ins. diam
bears $N 23\frac{1}{4}^{\circ} W$, 158 lks. dist.,
marked $\frac{1}{4}$ S. B. T.

An ironwood 7 ins. diam
bears $S 27^{\circ} E$, 17 lks. dist.,
marked $\frac{1}{4}$ S. B. T.

Santa Cruz Guide Meridian through
Chains

- 44.10 Dry wash, 15 lks wide, course S.W.
 50.00 Dry wash, 5 lks wide, course S.W.
 53.81 Dry wash, 35 lks wide, course S.W.
 55.75 Dry wash, 12 lks wide, course S.W.
 69.36 Trail bears N.E. and S.W.
 70.60 Dry wash, 30 lks wide, course S.W.
 79.30 Dry wash, 5 lks wide, course S.W.

Difference between
 measurements of 80
 chs. by two sets of
 chainmen is 6 lks.,
 position of middle point

By 1st set, 80.03 chs.,

By 2nd set, 79.97 chs., the
 mean of which is

80.00 Set a granite stone
 18 x 14 x 12 ins., 12 ins. in
 the ground for cor. of
 Tps. 11 and 12 S. R. 12 and

Spec. 12 S. bet. Rs. 12 and 13 E. - Concluded
Chains

13 E., marked with
6 notches on each edge,
from which
A palo verde 5 ins. diam
bears N 48° E, 128 Mes. dist.,
marked S. 11 S. R. 13 E.
S. 31. B. E.; no other
trees within limits,
and raise a mound of
stone, 2 ft. base, 1½ ft
high, S. of cor. Cuts
impracticable.

Land, rolling
Soil, sandy and stony;
3rd and 4th rate.

Timber, palo, verde,
ironwood; undergrowth
greasewood.

Some giant cactus.

Santa Cruz Guide Meridian, through
Chains

North, bet. secs. 31 and 36

Over rolling land,
 through timber and
 undergrowth

- 6.00 Dry wash 6 lks wide, course S.W.
 12.90 Dry wash 40 lks wide, course S.W.
 15.40 Dry wash 15 lks wide, course S.W.
 29.60 Dry wash 20 lks wide, course S.W.
 30.80 Dry wash 15 lks wide, course S.W.

Difference between
 measurements of 40 chs
 by two sets of chainmen
 is 7 lks, position of
 middle point

By 1st set, 39.96½ chs.

By 2nd set, 40.03½ chs, the
 mean of which is

40.00 Set a sandstone

20 x 12 x 4 ins., 16 ins. in

Trs. 11 S. bet Rs. 12 and 13 E.

Chains

the ground for $\frac{1}{4}$ sec.
 cor. marked $\frac{1}{4}$ on N.
 face; from which
 A mesquite 4 ins. diam
 bears $N40^{\circ}E$, 73 lks dist;
 marked $\frac{1}{4}$ S. B. T.

A palo verde 8 ins. diam
 bears $S76\frac{3}{4}^{\circ}W$. 92 lks.
 dist; marked $\frac{1}{4}$ S. B. T.

43.00 Trail bears N.E. and S.W.

52.10 Dry wash, 20 lks. wide, course S.W.

67.90 Trail bears N.E. and S.W.

71.45 Dry wash, 15 lks. wide, course N.W.

Difference between
 measurements of 80 chs.
 by two sets of chainmen
 is 10 lks; position of
 middle point
 By 1st set, 80.05 chs.

Santa Cruz Guide Meridian through
Chains

By 2nd set, 79.95 chs., the
mean of which is
80.00 Set a sand stone
20 x 10 x 3 ins., 16 ins. in
the ground for cor. of
secs. 25, 30, 31 and 36,
marked with 5 notches
on N. and 1 notch on
S. edges; from which
A palo verde 8 ins. diam.
bears $S 76 \frac{3}{4}^{\circ} E$, 120 lbs.
dist.; marked T. 11 S.
R. 13 E. S. 31. B. T.
A palo verde 7 ins. diam.
bears $S 73^{\circ} W$, 80 lbs. dist.;
marked T. 11 S. R. 12 E.
S. 36. B. T., no other
trees within limits,
raise a mound of

Tps 11 S. bet. Rs. 12 and 13 E - Continued

Chains.

stone 2 ft. base, $1\frac{1}{2}$ ft
high, W. of cor. Pits
impracticable

Land, rolling

Soil, sandy and stony,
3rd and 4th rate

Timber, palo verde
and iron wood; under-
growth greasewood.

North, bet. secs 25 and 30

Over, rolling land

1.00 Enter dense mesquite
timber and undergrowth

4.85 Enter dry wash, course S.W.

20.10 Leave dry wash, course S.W.

29.00 Leave dense mesquite
timber and undergrowth
and ascend gradually

Santa Cruz Guide Meridian, through
Chains

Difference between
measurements of
40 chs. by two sets of
chainmen is 9 lbs.,
position of middle
point

By 1st set, 40.04½ chs.

By 2nd set, 39.94½ chs.,

the mean of which is

40.00 Falls on a granite
boulder 30 x 20 x 16 ins.

above ground; I cut a
cross (x) at the exact
cor. point for ¼ sec.
cor., mark ¼ on W. face;
and raise a mound of
stone, 2 ft. base, 1½ ft
high, W. of cor. Pits
impracticable

Tps. 11 S. bet. R. 12 and 13 E - Continued

Chains

- 50.10 Dry wash, 10 lks wide, course S.W.
 52.85 Dry wash, 10 lks wide, course S.W.
 66.15 Dry wash, 9 lks wide, course S.W.
 75.00 Ascend Tortolita Mts.

Difference between measurements of sochs. by two sets of chainmen is 9 lks, position of middle point. By 1st set, 80.04 1/2 chs.

By 2nd set 79.95 1/2 chs, the mean of which is

- 80.00 Falls on a granite boulder 10 x 6 x 2 ft. above ground; I cut a cross (x) at the exact cor. point for cor. of secs 19, 24, 25 and 30, mark 4 notches on N and 2 notches on S. sides; and raise a

Santa Cruz Guide Meridian, through

a mound of stone 2 ft.
base, $1\frac{1}{2}$ ft high, W. of cor.
Pits impracticable
Land, rolling and mountain-
ous.

Soil, gravelly loam and stony
3rd and 4th rate

Timber, mesquite and
palo verde; undergrowth
mesquite.

Mountainous, or heavily
timbered land 33 chs.

June 27, 1895

Note: I discontinue the
Santa Cruz Guide Meridian
through Tps 11 S. Rs 12 and 13E
at cor. of sec 19, 24, 25 and 30,
as the same ^{becomes} impracticable
for chaining, on account
of mountains.

Tps. 11 S. bet Rs. 12 and 13 E - Concluded

General Description
Through Tps 11 and 12 S.
Rs. 12 and 13 E. this line
runs over a rolling mesa,
with a gradual ascend
towards the north until
it strikes the foot of
the Fortolita Mts.

The soil is of a poor
quality; the timber con-
sist mostly of ironwood
mesquite and palo verde.
There is no water on
this line.

Philip Contzer
U. S. Deputy Surveyor

U. S. Surveyor-General's Office,
Tucson, A. T. November 28, 1896.

The foregoing field notes of the Survey of the Santa Cruz Guide Meridian, through Townships 11 and 12 South, between Ranges 12 and 13 East, Gila and Salt River Meridian in Arizona, executed by
-----Philip Contzen-----

U.S. Deputy Surveyor, under his contract No. 36, dated February 5, 1895, having been critically examined, the necessary corrections and explanations made, the said field notes and the Surveys they describe are hereby approved.

George J. Roskrige
U. S. Surveyor-General,
of the Territory of Arizona.