

RESURVEY OF SANTA CRUZ

T¹S. 20 S. — GUIDE MER. — THROUGH RANGES
12 & 13 EAST.

CONTRACT 78
PH. CONTZEN
U. S. D. SUR.

1558

1558

BOOK 1558

4-671

FIELD NOTES
GENERAL LAND OFFICE.

1558

BOOK 1558

Field Notes
Of the resurvey of the
Santa Cruz Guide Meridian
Through
Townships 20 South
Between Ranges 12th & 13 East
Of the
Gila and Salt River Base ^{and} Meridian
In the
Territory of Arizona
As surveyed by
Philip Cuntzen
U. S. Deputy Surveyor
Under his contract No. 78.
Dated December 26, 1900

Survey commenced March 7, 1901
Survey completed March 19, 1901

BOOK 1558

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↑
pg 5

N. 20 S. R. 12 E.

Resurvey of the Santa Cruz Guide Meridian.
Chains

Survey commenced March 17,
1901, and executed with a Girdley
light mountain transit, No. 4607,
with a Burt's solar attachment.

The instrument was examined,
tested on the true meridian at Pue-
son and found correct and was ap-
proved by the surveyor general for
Arizona.

Preliminary to commencing the
subdivisions of Township 20 South,
Range 12 East, I find it necessary
to resurvey that part of the Santa
Cruz Guide Meridian which forms
the east boundary of this township
as almost all the corners of said
Santa Cruz Guide Meridian are
obliterated and bearings and meas-
urements out of limit.

Through Sps 20 S, R_s 12 and 13 E - continued
Chains

Begin at the standard cor of
S¹⁰hips 20 south, Ranges 12
and 13 east, which is a decayed
post lying on the ground. I
destroy same and reestablish the
corner as follows:

X I set a granite stone 18 x 12 x 8
ins, 12 ins in the ground for
standard cor of Sps 20 S, R_s 12 and
13 E, marked S C on N, 31 on E
and 36 on W faces, with 6 grooves
on N, E and W faces, from which
a mesquite 6 ins diam, bears N
29 $\frac{1}{2}$ ¹⁰ E, 69 lbs dist, marked S 20 S,
R 13 E, S 31, B. 7.

A mesquite 5 ins diam, bears
N 61 $\frac{3}{4}$ ³⁰ W, 99 lbs dist, marked
S 20 S, R 12 E, S 36, B. 7.

In order to test the solar apparatus

5
6
Re-survey of the Santa Cruz Guide Meridian
Chains

by comparing the results of observations on the sun, made during a m and p m hours, with a true meridian determined by observations on Solaris, & proceed as follows:

At the standard cor of D 20 S, R's 12 and 13 E, and at 3.30 p m, local mean time, set off $31^{\circ}38'10''$ on the latitude arc, $10^{\circ}19'S$ on the declination arc, and mark the true meridian thus determined with the solar by a cross on a stone firmly set in the ground, 5 chs north of the instrument.

March 17, 1901.

March 17, 1901.

Through Apr 20 S, Pos 12 and 13 E - Continued
Chains

At 7^h 38^m, p.m. local mean
time, observe Solaris at western
elongation in accordance with
instructions in the manual, and
mark the line thus determined
by a tack driven in a wooden
plug set in the ground, 5 chs
north of my station. - March 13th

At 7 a.m. I lay off the azi-
muth of Polaris $1^{\circ} 26'$ to the east
and mark the true meridian
thus determined, by cutting a
small groove in the stone set
yesterday on which the true
meridian falls 0.14 west of the
mark determined by the solar.

At 9.30 a.m. I set off
on the lat. arc, $1^{\circ} 1'$ S on
the Geil. arc, and mark the

5
 10 Recovery of the Santa Cruz Guide Meridian
 Chains

true meridian determined with the solar, by a cross on the stone already 5 chs north of my station. This mark falls 14" west of the true meridian established by the Polaris observation. The solar apparatus by a m and 2 m observations, defines positions for true meridians, about 6" east and 6" west of the meridian established by the Polaris observation. Therefore I conclude that the adjustments of the instrument are satisfactory. The magnetic bearing of the true meridian at 9.30 a.m. is $12^{\circ} 43' W$, the angle thus determined, reduced by the table, page 100, gives the mean mag. decl $12^{\circ} 40'$ east.

Through Sps 20 & Pos 12 and 13 E-Continued

Quins

From the above described standard Cor Prim north on a random line.

- | | |
|--------|---------------------------------------------------------------------------------------------------|
| 40.00 | Remains of $\frac{1}{4}$ sec cor, 21 lks W. |
| 80.00 | Old sec cor, 42 $\frac{1}{2}$ lks W. |
| 120.00 | Remains of $\frac{1}{4}$ sec cor, 77 lks W |
| 160.00 | Remains of old sec cor, 119 lks W |
| 200.00 | Remains of $\frac{1}{4}$ sec cor, 133 lks W |
| 240.00 | Remains of old sec cor, 161 lks W |
| 280.30 | Point evidence of old $\frac{1}{4}$ sec cor
203 lks W |
| 320.20 | Remains of old sec cor, 245 lks W |
| 360.70 | Remains of old $\frac{1}{4}$ sec cor 274 lks W |
| 400.90 | Point evidence of old sec cor,
303 lks W |
| 440.85 | Remains of $\frac{1}{4}$ sec cor 335 lks W |
| 481.40 | Remains of cor to Sps 19 and
20 S, Pos 12 and 13 E, bears 3.67
lks W. The same is a decayed |

Resurvey of the Santa Cruz Guido Meridian

post, lying on the ground. I
destroy the same and reestablish
as follows:

Set a granite stone $18 \times 12 \times 8$
ins, 12 ins in the ground, for the
cor of Nos 19 and 20 S, Pos 12 and 13
E, marked with 6 notches on N. E.
S and W edges, from which a
mesquite 12 ins diam. $N 27 \frac{1}{4}^{\circ} E$,
172 lbs dist, marked P 19 S, R 13
E, S 31 B. T.

A mesquite 8 ins diam, bears S
 $21^{\circ} E$, 57 lbs dist, marked P 20 S,
R 13 E, S 6, B. T.

A mesquite 6 ins diam, bears
S $86 \frac{1}{2}^{\circ} W$, 53 lbs dist, marked P
20 S, R 12 E, S 1 B. T.

A mesquite 14 ins diam, bears
 $N 62^{\circ} W$, 136 lbs dist, marked

Through Sps 20 S, B 12 and 13 E - continued

Cherms

S 19 S, B 12 E, S 26, B 17

March 17, 1901.

March 18, 1901.

S 0° 28' E, on a true line bet sect
1 and 6

Over level land

Through dense mesquite and un-
dergrowth

11.40 Old road bears N. E. and S. W.

20.50 Wash 50 lbs wide, course easterly
Difference between measurements of
40.55 chs, by two sets of chainman,
is 10 lbs, position of middle point.

By 1st set, 40.60 chs,

By 2^d set 40.50 chs, the ^{mean} of which is

40.55- Set a granite stone 18x12x4 ins, 12
ins in the ground for 1/4 sec cor,
marked 14 S 6 on E face, from
which a mesquite (old B. 7.) 10 ins

Purveyor of the Santa Cruz Guide Meridian
Chains

from, bears $N 15^{\circ} E$, 60 lks dist,
marked $\frac{1}{4}$ S 6, B. 7.

A mesquite 4 ins diam, bears
 $S 42^{\circ} E$, 7 lks dist, marked $\frac{1}{4}$ S 6,
B. 7.

Thence from $\frac{1}{4}$ cor sec 6 continues
 $S 0^{\circ} 28' E$.

Difference between measurements
of 41.40 lks, by two sets of chainmen,
is 10 lks, position of middle point.

By 1st set 41.45 lks.

By 2^d set 41.35 lks, the mean of
which is

41.40

Set a granite stone $18 \times 8 \times 6$ ins,
12 ins in the ground for $\frac{1}{4}$ sec
cor, marked $\frac{1}{4}$ S 1 on W face,
from which a mesquite 5 ins
diam, bears $S 41^{\circ} \frac{1}{4} W$, ^{91 lks dist,} marked
 $\frac{1}{4}$ S 1 B. 7.

Through Pts 20 S, Pts 12 and 13 E - Continued

Chains

42.90

Nogahs road, bears N E and S W

45.80

Old road, bears N E and S W

Difference between measurements of
80.50 chs, by two sets of chains is
10 lbs, position of middle point.

By 1st set 80.45 chs

By 2nd set 80.55 chs; the mean of
which is

80.50

Set a sandstone 18x12x10 ins, 12
ins in the ground, for cor of sies
6 and 7, marked with 1 notch on
N and 5 notches on S face, from
which a mesquite 7 ins diam, bears
N 52^o E, 141 lbs dist, marked S 20
S, P 13 E, S 6, B. 7.

A mesquite ins diam, bears S
58^o E, 105 lbs dist, marked S 20 S,
P 13 E, S 7 B. 7.

Plum 80^o 25' E

Resurvey of the Santa Cruz Indian Meridian
Chains

Differences between measurements
of 0.90 chs, by two sets of chains
is 10 lbs; position of middle point

By 1st set 0.95 chs

By 2nd set 0.85 chs; the mean of
which is

00.90 Set a sandstone $18 \times 12 \times 8$ ins

12 ins in the ground for cor of sees 1
and 12, marked with 1 notch on
N and 5 notches on S edges,
from which a mesquite 8 ins
diam, bears N $15\frac{1}{2}$ W, 202 lks
dist, S 20 S, B 12 E, S 1, B. 7.

A mesquite 6 ins diam, bears
S 24 W, 53 lks dist, marked
S 20 S, B 12 E, S 12, B. 7.

Land. level

Soil, sandy; 2nd rate

Timber, mesquite.

Through Sps 20 & Pos 12 and 13 E - Continued

Chain

Through underground, 81.40 chs

S⁰25°E, on a true line bet sees
7 and 12.

Over level land

Through dense underground
Difference between measurements
of 39.31 chs, by two sets of chainmen
is 4 chs; position of middle point.

By 1st set 39.28 chs

By 2nd set 39.32 chs, the mean of
which is

39.30

Set a malpais Stone 18x10x6 ins,
12 ins in the ground for 1/4 sec cor,
marked '14 & 7 on E face, from
which a mesquite 8 ins diam, bears
N67¹/₂°E, 116 chs dist, marked '14
& 7, B. 57.

A mesquite 6 ins diam, bears S.

Periphery of the Santa Cruz Guide 'Mirichian
Chains

58° E, 45 lks dist, marked 1/4

S 4 B 77

Difference between measurements
of 40.00 chs, by two sets of chainman
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 granite stone 18 x 8 x 6 ins
12 ins in the ground for 1/4 sec
Doc, marked 1/4 S 12 on N face
from which a mesquite 6 ins
diam, bears N 66° W, 56 lks dist,
marked 1/4 S 12, B 77.

Wire fence

50.30

Road, bears E and W

65.30

Bush fence, bears N E and S W

66.00

Adobe houses, bear 4 chs E

Differences between measurements

Through *Sts* 20 S, *Pos* 12 and 13 E - continued
Chains

of 79.70 chs, by two sets of chainmen
 is 10 lks, position of middle point.

By 1st set 79.75 chs

By 2nd set 79.65 chs, the mean of
 which is

79.70

Set a granite stone 18x8x6 ins,
 12 ins in the ground for ea of sides
 7 and 18, marked with 2 notches
 on N and 4 notches on S edges,
 from which a mesquite 12 ins
 chain, bears N 16° E, 106 lks dist,
 marked S 20 S, P 13 E, S 7 B. 71

A mesquite 8 ins chain, bears S,
 26 1/2° E, 60 lks dist, marked S 20
 S, P 13 E, S 18, B. 71.

Thence S 0° 36' E,

Difference between measurements of
 0.30 chs, by 2 sets of chainmen is
 0 lks, position of middle point.

Resurvey of the Santa Cruz Grande Meridian
 Chains

By 1st set 0.30 chs

By 2nd set 0.30 chs; the mean of
 which is

00.30.

Set a granite stone 18 x 10 x 4 ins
 12 ins in the ground for cor of
 sec 12 and 13, marked with 2
 notches on N and 4 notches on
 S edges, from which a mesquite
 8 ins diam, bears N 23^o W, 59 lbs
 dist, marked P 20 S, P 12 E, S 12
 B. T.

A mesquite 12 ins diam, bears S
 33^o E, 78 lbs dist, marked P 20 S,
 P 13 E, S 18 B. T.

Land level.

Soil gravelly; 2nd rate.

Timber, mesquite.

Land covered with dense
 undergrowth, \$0.00 chs

Through Nos 20 S, Nos 12 and 13 E, Continued

Chain S. 36° E, on a true line bet sees
13 and 18.

Over level land

Through dense undergrowth

19.70 Wash 20 lks wide, runs easterly

Differences between measurements

of 39.70 chs, by two sets of chainmen
is 20 lks, position of middle point.

By 1st set 39.80 chs

By 2^d set 39.60 chs, the mean of
which is

39.70

Set a granite stone 18 x 12 x 8 ins
10 ins in the ground for 1/4 sec cor
marked 1/4 S 18 W E face, from
which a mosquito 6 ins diam,
bears N 84° E, 8 1/2 lks dist, marked
1/4 S 18, B.T.

A mosquito 8 ins diam, bears
S 35 1/2° E, 90 lks dist, marked

Resurvey of the Santa Cruz Bridge Meridian
Chains

1/4 S 18 B. 7.

Difference between measurements of
40.00 chs, by two sets of chainmen is
20 lbs; position of middle point

By 1st set 40.20 chs

By 2^d set 39.80 chs; the mean of
which is

40.00

Set a granite stone 18 x 10 x 6,
ins, 12 ins in the ground for 1/4 sec
cor, marked 1/4 S 13 on w face,
from which a mesquite 15 in
diam, bears N 81 1/4° W, 42 chs dist,
marked 1/4 S 13 B. 7.

49.50

Wash 10 chs wide, course easterly

57.00

Wash 10 chs wide, course easterly
Difference between measurements
of 8000 chs, by two sets of chainmen
is 10 lbs; position of middle
point.

through Sps 20 S, R 5 12 and 13 E - continued

Chains By 1st set 80.05 chs
By 2^d set 79.95 chs; the mean of
which is

80.00

Set a granite stone 18 x 6 x 6 ins,
12 ins in the ground for cor of
sres 13, 18, 19 and 24, marked with
3 notches on N and 3 notches on
S edges, from which a mesquite ^[old 13 77]
15 ins diam, bears S 41° 20' E, 5.50
chs dist, marked S 20 S, R 12 E,
S 19 B 57.

A mesquite 3 ins diam, bears
S 83° 10' W, 5.8 chs dist, marked S
20 S, R 12 E, S 24, B 57.

A mesquite 6 ins diam, bears
N 33 3/4° W, 9.98 chs dist, marked S
20 S, R 12 E, S 13 B 57.

Level, level.

Soil, gravelly; 2nd nat.

Possession of the Santa Cruz Guided Meridional
Chains

Timber, mesquite; undergrowth,
mesquite and besotas
Vastly timbered land and land
covered with dense undergrowth
8000 chs

March 18, 1901

March 19, 1901.

So 18' E. and true line bet
sacs 19 and 24

Over level land

Through dense undergrowth

9.10

Pine fence, bears N. N. W.

11.50

Windmill, bears 4 chs E.

24.55

Pine fence, bears N. E.

Difference between measurements
of 40.00 chs, by two sets of chainmen
12 chs; position of middle point.

By 1st set 39.94 chs

through the 20 S, Rs 12 and 13 E - continued

Chains

By 2^d set 4006 chs; the mean of which is

4000

Set a granite stone 18 x 8 x 7 ins, 12 ins in the ground for $\frac{1}{4}$ sec. Col, marked $\frac{1}{4}$ S 19 on E face from which a mesquite 6 ins diam, bears $N 52^{\frac{1}{4}} E$, 213 lbs dist, marked $\frac{1}{4}$ S 19, B 7.

A mesquite 6 ins diam, bears $S 56^{\circ} E$, 295 lbs dist, marked $\frac{1}{4}$ S 19, B 7.

A mesquite 5 ins diam, bears $S 21^{\circ} W$, 71 lbs dist, marked $\frac{1}{4}$ S 24, B 7.

56.15

Wash 15 lbs wide, course N easterly.

76.10

Wash 10 lbs wide, course easterly
Difference between measurements of 8000 chs, by two sets of chainmen

Resurvey of the Santa Cruz Guide's Meridian
Chains

is 6 lks; position of middle
joint.

By 1st set 79.97 chs

By 2nd set 80.03 chs; the mean
of which is

80.00

Set a sandstone 18x12x12
ins, 12 ins in the ground for
Doc of sees 19, 24, 25, and 30,
marked with 4 notches on N
and 2 notches on S edges, from
which a tresota 4 ins diam, bears
N 79 $\frac{1}{4}$ ° E, 70 lks dist, marked
S 20 S, B 13 E, S 19, B 17.

A mesquite 20 ins diam, bears
S 63° E, 65 lks dist, marked
S 20 S, B 13 E, S 20, B 17.

A tresota 5 ins diam, bears
S 42° W, 80 lks dist, marked
S 20 S, B 12 E, S 25 B 17.

Through Sec 20 S, R 12 and 13 E - continued

Chains

A Kasota 107 ins chain, bears
 $N 52^{\circ} E$ $P 8$ lks dist, marked
 $P 20 S, R 12 E, S 24, B. 17!$

Level, level

Soil, gravelly; 2nd and 3rd rate
 Timber, mesquite; undergrowth
 mesquite and tesola

Heavily timbered land and land
 covered with dense undergrowth
 80 chs

$S 0^{\circ} 33' E$, on a true line bet
 sees 25 and 20

Over level and rolling land
 through dense undergrowth

9.20 Pine fence, bears $N 10^{\circ} W$

13.50 Wash 40 lks wide, course easterly

16.00 Nogales road, bears S. S. E. and
 $N. N. W$

Personny of the Santa Cruz Guide Meridian

Chains
19.00

Leave Santa Cruz valley
and enter mesa and scattering
mesquite

35.50

Wash 40 lks wide, course easterly
Difference between measurements
of 40.00 chs, by two sets of chains
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 granite stone 18x6x5
ins, 12 ins in the ground for $\frac{1}{4}$
sec cor, marked $\frac{1}{4}$ S 25 on W
face from which a mesquite
8 ins diam, bears N 55° E, 40 lks
dist, marked $\frac{1}{4}$ S 30, 13.7, no
other trees within limit, and
raise a mound of stones 2 ft
base, 1 1/2 ft high W of cor.
Pits impracticable.

through the 20 S, B 12 and 13 E - continued

Chains Push 30 lbs wide, course easterly.
Difference between measurements
of 5000 chs, by two sets of chainmen
is 16 lbs, position of middle
joint

By 1st set 4992 chs

By 2nd set 8008 chs; the mean
of which is

8000

Set a granite stone 20 x 14 x 8
ins, 14 ins in the ground for
the cor of sees 25, 30, 31 and
36, marked with 5 notches on
N and 1 notch on S edges, from
which a magnetic 8 in. diam,
bar 87° W, 140 lbs dist, marked
S 20 S, B 12 E, S 36, B.T. no
other trees within limit, and
raise a mound of stone 2 ft
base 1 1/2 ft high W of cor

Resurvey of the Santa Cruz Indian Meridian
Chain

Land, level.

Soil, gravelly; 2nd uncultivated
Timber, mesquite

Land covered with dense under-
growth, 19.00 chs

$50^{\circ} 18' E$, on a true line bet
secs 31 and 36

Over level and rolling land

8.50

Wash 30 chs wide, course easterly

19.80

Wash 20 chs wide, course easterly

Difference between measurements
of 40.00 chs, by two sets of chainmen
8 chs; position of middle point
By 1st set 39.96 chs

By 2nd set 40.04 chs; the mean
of which is

40.00

Set a volcanic stone $18 \times 12 \times 5$
ins, 12 ins in the ground for

Shingh Mesa S, Ps 12 and 13 E. continued

Chain

$\frac{1}{4}$ sec cor, marked $\frac{1}{4}$ S 36 on
W face, from which a
mesquite 8 ms in diam, bears S $17\frac{1}{2}^{\circ}$ W, 187
lbs dist, marked $\frac{1}{4}$ S 36 B. 7.

A mesquite 8 ms in diam, bears
S 33° E, 40 lbs dist, marked $\frac{1}{4}$
S 31, B. 7. and raise a mound

of stone 2 ft base, $1\frac{1}{2}$ ft high
W of cor. Pits in fract^s

57.10 Wash 25 lbs wide, course, easterly

56.20 Enter wash, course Westerly.

58.10 Leave wash, course, westerly; ascend

67.00 Top, bears E and W; descnd.

7.000 Foot

Difference between measurements
of 80.00 chs, by two sets of chainmen
is 12 lbs; Position of middle
point

By 1st set 79.94 chs

Resurvey of the Santa Cruz Guide Meridian
Chains

By 2nd set 80.06 chs; the mean
of which is

80.00

The standard error of sets 31
and 36 as heretofore described.
Land, level and rolling
Soil gravelly; 2nd and 3rd rate
Timber, mesquits

March 19, 1901

Philip Contzen
W. S. Deputy Surveyor

List of Names.

BOOK 155831

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A list of the names of the individuals employed
by Philip Couzzen
U S. Deputy Surveyor, to assist in running, measuring
and marking the lines and corners described in the forego-
ing Field Notes of the ^u survey of the Santa.

Cruz Guisole Meridian
between Tps. 20 South
R's. 12 and 13 East

of the Gila and Salt River Base and Meridian, in the Ter-
ritory of Arizona, showing the respective capacities in which
they acted.

- John M. Trayer Chairman.
- Antonio Elias Chairman.
- Tomas Elias Chairman.
- C. O. Elias Chairman.
- Juan Elias Axeman.
- Tom Launce Axeman.
- Tom Launce Flagman.

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BOOK

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Final Oath of Assistants.

We hereby certify that we assisted Philip
Coutzen U. S. Deputy Surveyor, in
re surveying all those parts or portions of the Santa
Cruz Guide Meridian
through Tps. 20 South
R's 12 and 13 East

of the Gila and Salt River Base and Meridian, in the Ter-
ritory of Arizona, as are represented in the foregoing field
notes as having been surveyed by him and under his direc-
tion; and that said Survey has been in all respects, to the
best of our knowledge and belief, well and faithfully survey-
ed, and the corner monuments established according to the
instructions furnished by the United States Surveyor Gen-
eral for Arizona.

- John M. Tracy Chainman.
- Antonio Elias Chainman.
- Thomas Elias Chainman.
- C. D. Elias Chainman.
- Juan Elias Axeman.
- Axeman.
- Tom Lounce Flagman.

Sworn and subscribed before me, this 15th
day of April 1901.



Philip Coutzen
Notary Public.
U. S. Dep. Surveyor
no notary available.

Final Oath of U. S. Deputy Surveyor.

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I, *Philip Couzner*.....

BOOK 1558

U. S. Deputy Surveyor, do solemnly swear that in pursuance of a contract received from... *George Christ*

United States Surveyor General for Arizona, bearing date of the... *26th*... day of *December*... 190*0*..

I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for Arizona, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of the.....

Santa Cruz Guide Meridian,
between Tps. 20 South
R's 12 and 13 East.....

of the Gila and Salt River Base and Meridian, in the Territory of Arizona, as are represented in the foregoing Field Notes as having been surveyed by me and under my direction; and I do further solemnly swear that all the corners of said surveys have been established and perpetuated in strict accordance with the Manual of printed instructions, the special instructions of the United States Surveyor-General for Arizona, and in the specific manner described in the field notes, and that the foregoing are the true Field Notes of such survey; and should any fraud be detected I will

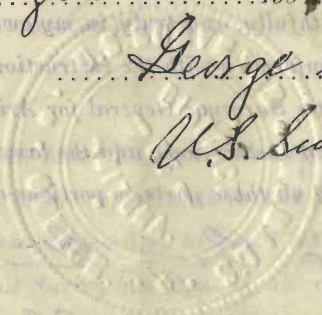
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suffer the penalty of perjury, under the provisions of an act of Congress approved August 8, 1846.

Philip Cantzen
U. S. Deputy Surveyor.

Sworn to and subscribed before me this *3rd*
day of *August* 190

George Lehist
U. S. Dist. Court.



BOOK 1558

of the (fill in) Salt River line and Meridian, in the Ter-
ritory of Arizona, as are represented in the foregoing field
Note as herein been surveyed by me and under my direc-
tion, and I do further solemnly swear that all the corners of
said survey have been established and perpetuated in strict
accordance with the Manual of printed instructions, the
special instructions of the United States Survey-General,
for Arizona, and in the specific manner described in the
field notes, and that the foregoing are the true field notes
of said survey, and should any fraud be detected I will

BOOK 1558

U. S. Surveyor-General's Office.

Phoenix, A.T., March 25-1902.The foregoing Field Notes of the Survey^{re}of Santa Cruz Guide Mer thro'Sp. 20 South Ranges 12 & 13 East

Gila and Salt River Meridian in

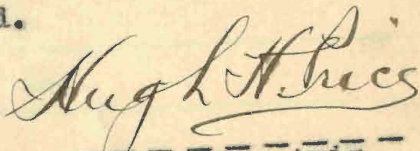
Arizona, executed by Philip Contzenunder his contract No. 78dated Dec. 26-1900, having been criti-

cally examined, the necessary corrections

and explanations made, the said Field

Notes and the surveys they describe

are hereby approved.



U. S. Surveyor-General for Ariz.