

RESURVEY: 2<sup>ND</sup> GUIDE MER

Tps 17S R6 10-11E

CONTRACT 65

PH. CONTZEN

U. S. D. SUR.

1551

1551

BOOK 1551

4-671

FIELD NOTES  
GENERAL LAND OFFICE

Field Notes  
Of the survey of the  
Second Guide Meridian  
Through  
Townships No. 17 South  
Between Ranges Nos. 10 and 11 East  
Of the  
Gila and Salt River Base <sup>2nd</sup> Meridian  
In the  
Territory of Arizona  
As surveyed by

Philip Cortzen  
U. S. Deputy Surveyor

Under his contract No. 65  
Dated May 22, 1900

Survey commenced January 21, 1901  
Survey completed January 23, 1901

BOOK 1551

## Index. —

Second Guide Meridian

Through T. 17 South 5

Det. R. 10 &amp; 11 E.

1 20 6

12 17 7

P. 17 S. R. 10 E.

13 14 18

P. 17 S. R. 11 E.

24 11 19

25 9 30

36 6 31

Resurvey of the Second Guide Meridian  
Chicoms

January 21, 1901.

Preliminary to commencing the subdivision of Township 17 S, R 11 E, I proceeded to test that part of the Second Guide Meridian E, which forms the west boundary of this Township. I proceeded to cor of Twp 16 and 17 S, Rs 10 and 11 E, which is a decayed post with marks obliterated. I destroy the post and reestablish this corner as follows:

Set a granite stone  $20 \times 10 \times 10$  ins, 14 ins in the ground for cor of Twp 16 and 17 S, R 11 E, marked with 6 grooves on N, S and W faces from which a surveyor's 5 ins chain, bears  $N 75^{\circ} W$ , 313 lks dist, marked

Note: - Original Survey by Lewis Wesley Apr. 27, 1863

Through Nos 17 & Nos 10 and 11 E - Continued  
Charts

No 16 S, R 11 E, S 36, B. 7; dig pits  
30 x 24 x 12 ins, on each line, N and  
S, 4 ft, and W of stone 8 ft dist.,  
and raise a mound of earth 4  
ft base, 2 1/2 ft high, W of cor.

At 7<sup>h</sup> 50<sup>m</sup> a.m. I met P set off  
32° on the lat arc, 19° 54' S on the decl  
arc, and determines a true meridian  
with the solar at the above described  
cor.

Thence I run south on a ran-  
dom line.

- ✓ 139.65 Old cor point  
✓ 179.94 Old cor point, bears 29 lbs E  
118.69  
~~177.86~~ Old cor point, bears 29 lbs E  
✓ 159.69 Old cor stone, bears 29 lbs E  
✓ 199.54 Old cor point, bears 29 lbs E  
✓ 239.54 Old cor point, bears 29 lbs E  
✓ 279.63 Old cor stone, bears 29 lbs E

1. Re-survey of the Second General Meridian

Chertis

- 319.47 Old cor stone, bars 29 lks E  
 360.26 Old cor stone, bars 29 lks E  
 399.62 Old cor stone, bars 29 lks E  
 440.96 Old cor stone, bars 29 lks E  
 481.56 The cor of Sps 17 and 18 S, Pcs 10  
 and 11 E, which is a stone marked  
 and witnessed as described by the  
 surveyor general. <sup>bars 29 lks E</sup> I changed this  
 corner to cor to Sps 17 and 18 S, Pcs 10  
 E, by obliterating the 6 groove on  
 said stone on the E. face.

January 21, 1901.

January 22, 1901.

North on a true line on east  
 boundary of sec 36,  
 Over mountainous land

through the 17 S. Rs 10 and 11 E - Continued  
Chains

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

By 1<sup>st</sup> set 40.55 chs

By 2<sup>d</sup> set 40.65 chs, the man of which is

40.60

Present old stone, which is a granite  
20 x 14 x 4 ins, 24 ins in the ground  
for  $\frac{1}{4}$  sec cor, which I remark  $\frac{1}{4}$   
for  $\frac{1}{2}$  in  $\frac{1}{2}$  face.  
36, from which a mesquite 6 ins  
diam, bears N 62° W, 75 lbs dist,  
marked  $\frac{1}{4}$  S 36, B. 7; no other trees  
within limit, and raise a mound of  
stone 2 ft base,  $1\frac{1}{2}$  ft high  $\frac{1}{2}$  of  
cor. Pits impracticable.

47.40

Wash 20 lbs wide, course N westerly;  
ascend.

51.50

Top of ridge, bears E and N, descend

53.90

Wash 40 lbs wide, course N. westerly.

Resurvey of the Second Grade Meridian

Chains  
64.20

Wash 50 chs wide, course westerly  
ascend

Difference between measurements  
of 81.94 chs, by two sets of chains  
is 8 chs, position of middle point

By 1<sup>st</sup> set 81.90 chs

By 2<sup>d</sup> set 81.98 chs, the mean of which is

81.94

Priset old stone, which is a granite,  
18 x 10 x 6 ins, 12 ins in the ground,  
for cor of secs 25 and 36, marked  
with 1 notch on S and 5 notches  
N edges; and raise a mound of  
stone 2 ft base, 1 1/2 ft high, W of  
cor. Pits impracticable.

Land mountainous

Soil, gravelly and rocky; 4<sup>th</sup> rate.

Timber, a few mesquite

Mountainous land, 44.51 chs

Note on ... P. ... San ... 1890 ...



Through Sps 17 S, Pcs 10 and 11 E - continued

Chains

North on a true line on E boundary  
of sec 25.

Over mountainous land

Ascending

3.00 Top of ridge, bears E. and W; <sup>descent</sup>

20.80 Gulch 50 lbs wide, course N. westerly;  
ascend

25.80 Top of ridge, bears E and W; descent.

37.00 Wash 10 lbs wide, course N. westerly;

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

By 1<sup>st</sup> set 39.44 chs

By 2<sup>d</sup> set 39.32 chs, the mean of which is

39.36

Preset old stone, which is a granite

18 x 12 x 8 ins, 12 ins in the ground, for

1/4 sec cor, which I remark "425-

on W face, and raise a mound of

stone 2 ft base, 1 1/2 ft high, W of

Resurvey of the Second Grand Meridian

Chambers

73.40 Foot; wash 20 lbs wide, course N. westerly

46.50 Wash 20 lbs wide, course, N. westerly; ascend.

65.40 Top of ridge, bears N W and S. E. descend.

68.60 Foot; wash 10 lbs wide, course N. westerly.

72.45 Wash 40 lbs wide, course N. westerly.

Difference between measurements of 80.15 chs, by two sets of chambers is 10 lbs, position of middle point. By 1<sup>st</sup> set 80.10 chs

By 2<sup>d</sup> set 80.20 chs, the mean of which is

80.15 Preset old stone, which is a granite, 18x12x8 ins, 12 ins in the ground for cor of secs 24 and 25, marked with 2 notches on S and 4 notches on N edges, from which

Notes  
10  
P. A. ...  
San La ...  
1890 ...

Through S 17 S, R 10 and 11 E - continued

Chassis

a mesquite 10 ins diam, bears S 26° W,  
150 lbs dist, marked S 17 S, R 10 E, S  
25, B. 77

A mesquite 6 ins diam, bears N 55½°  
W, 94 lbs dist, marked S 17 S, R 10 E, S  
24 B. 77, no other trees within limit,  
and raise a mound of stone 2 ft  
base 14½ ft high, W of cor.

Pits impracticable.  
Land, mountainous

Soil, gravelly and rocky; 4<sup>th</sup> rate  
Timber, scattering mesquite  
Mountainous land, 80.15 lbs

Northward trees end on E. boundary  
of sec 24.

Over mountainous land

6.00

Enter dense pale verde and vertilla  
undergrowth

6.90

Wash 10 lbs wide, course westerly;

Per survey of the Second Guide Meridian  
Chains

- ascend
- 10.50 Top of low ridge - E slope
- 16.30 Foot; wash 20 lks wide, course westerly; ascend
- 20.00 Top of low rocky ridge, bears N.W. and S.E.
- 35.50 Foot; wash 15 lks wide, course westerly.

Difference between measurements of 39.84 chs, by two sets of chainmen is 28 lks, position of middle point

By 1<sup>st</sup> set 39.70 chs

By 2<sup>d</sup> set 39.98 chs, the mean of which is

39.84

Present old stone, which is a granite, 18 x 12 x 6 ins, 12 ins in the ground, for 1/4 sec cor, which I remark 1/4 24 on W face, from which a mesquite 8 ins diam, bears N 5° W, 226 lks dist, marked 1/4 S 24, B. 7, no other

m. r. ...  
 p. ...  
 ...  
 ...  
 ...

Through Sp. 17 S. Res. 10 and 11 E - Continued  
Chains

- trees within limit and raise a mound of stone 2 ft base W of cor  
6.00 Top of low ridge, bears N.W. and S.E.  
67.30 Enter wash, course N. westerly  
68.65 Old brush fence, bears E and W.  
71.50 Old brush fence bears E and W  
76.00 Leave wash, course N. westerly

Difference between measurements of  
79.93 chs by two sets of chainmen is  
6 lbs. position of middle point.

By 1<sup>st</sup> set 79.90 chs

By 2<sup>d</sup> set 79.96 chs. the mean of  
which is

- 79.93 I find faint evidence of old cor  
and reestablish it at same points  
as follows:

Set a granite stone 18 x 12 x 6 ins,  
12 ins in the ground for cor of  
sec 13 and 24, marked with 3

Resurvey of the Second General Meridian  
Chains

notches on S and 3 on N faces, from  
which a mesquite 10 ins diam bears  
N 31 $\frac{1}{2}$ ° W 189 lbs dist, marked S 17 S,  
R 10 E, S 13, B. 7. no other trees  
within limit and raise a mound  
of stumps 2 ft base 1 $\frac{1}{2}$  ft high W  
of cor

Land mountains and rolling  
Soil, gravelly, 2<sup>d</sup> and 3<sup>d</sup> rate  
Timber: scattering mesquite;  
undergrowth, pale woods, ceotilla  
and tesola.

Mountains land or land covered  
with dense undergrowth 79.93 chs

January 22, 1901

January 23, 1901.

North on a true line on E boundary  
of sec 13

Through Nos 17 & 18s 10 and 11 E - continued  
Chains

- Over level and rolling land -
- 4.00 Enter wash, course N westerly
- 7.00 Leave wash, course N westerly  
and leave dense undergrowth  
tesota and mesquite.
- 13.20 Wash 20 lks wide, course N westerly
- 19.60 Road, bars E and W
- 25.50 Wash 20 lks wide, course N westerly  
Differance between measurements of  
40.00 chs. by two sets of chain is  
20 lks. position of middle point  
By 1<sup>st</sup> set 40.10 chs.  
By 2<sup>d</sup> set 39.40 chs, the mean of  
which is
- 40.00 The old 4 see cor is a decayed  
post lying on the ground. Destroy  
all traces of the old cor and  
reestablish it at the same point  
as follows!

4

Re-survey of the Second Guide Meridian  
Chains

Set a granite stone 18 x 10 x 6 ins,  
12 ins in the ground for 1/4 sec  
cor, marked 1/4 13 on 90° face,  
from which a mensurate 5 in  
span, bars N 28 1/2° W, 189 lbs dist,  
marked 1/4 S 13, B. T. dig pits  
18 x 12 x 12 ins N and S of stone, 3  
ft dist, and raise a mound of earth  
3 1/2 ft base, 1 1/2 ft high, W of cor.

64.00  
.67.20  
7.00

Wash 15 lbs wide, course N Westly  
Old road, bars N. W and S. E.  
Road to Stevens ranch, bars N. E.  
and S. W.

Difference between measurements  
of 79.85 chs by two sets of chain  
is 10 lbs, position of middle point

By 1<sup>st</sup> set 79.90 chs  
By 2<sup>d</sup> set 79.80 chs, the mean of which is  
79.85  
Find faint traces of old cor and

1.000  
S  
S  
V  
10  
M.T.



Plumage Apr 17 S, Rs 10 and 11 E - continued  
Chairs

reestablish it at the same point as follows:

Set a granite stone 18x8x8 ins, 10 ins in the ground for cor of sec 12 and 13, marked with 4 notches on S and 2 notches on N edge; dig pits 24x24x12 ins in sec 12<sup>and</sup> 13, 6 ft dist, and remove mound of earth 4 ft

high 2 ft high 10 of cor  
Land level and rolling

Soil gravelly; 2<sup>nd</sup> and 3<sup>d</sup> rate

Timber, a few scattering mesquite undergrowth, cholla, mesquite and brsola.

Land covered with dense undergrowth, 7.00 chs.

North on a line line on E  
Boundary of sec 12

550

Enter Wash, course N. West by

Resurvey of the Second Guide Meridian

Chains

12.00

Leavel wash, course N. westerly

15.50

Wash, course N. westerly

39.00

Wash, course N. westerly

Difference between measurements of 39.83 chs, by two sets of chains is 6 lbs, position of middle point

By 1<sup>st</sup> set 39.80 chs

By 2<sup>nd</sup> set 39.86 chs, the mean of which is

39.83

The point for old 1/4 sec cor is now a wash and no traces of cor are left

41.00

Set a quartz stone 18 x 8 x 8 ins, 12 ins in the ground for witness cor to 1/4 sec, marked W.C., 1/4 12 on W face from which a mesquite 10 ins diam

br - S 57 1/2° W, 106 lbs dist, marked W.C., 1/4 S 12, B.T., dig pits 18 x 18 x 12 ins N and S of stone, 3 ft. dist, and raise a mound of earth 3 1/2 ft base

Plumage No 17 S Pcs 10 and 11 E-Continued  
Chassis

$\frac{1}{2}$  ft high, W of cor.  
43.30 Enter wash, course A westerly  
49.40 Leave wash, course A westerly  
69.50 Wash 40 lbs wide, course A westerly  
73.00 Wash 20 lbs wide, course A westerly

Difference between measurements

79.75 chs by two sets of Chammien  
is 10 lbs, position of middle point

By 1<sup>st</sup> set 79.80 chs

By 2<sup>d</sup> set 79.70 chs, the mean of  
which is

79.75 Old cor of secs 1 and 12 is a stake  
burned off at the surface of the  
ground. To reestablish the cor at  
the same point as follows:

Set a granite stone  $18 \times 12 \times 8$   
ins 12 ins in the ground for cor  
of secs 1 and 12, marked with  
5 notches on S and 1 notch on

Summary of the Second Guide Meridian  
Stations

7 edges, dig pits 24 x 24 x 12 ins, in  
secs 1 and 12, 10 ft dist, and raise a  
mound of earth 4 ft base, 2 ft high.

Ref cont.

Land, level.

Soil, gravelly; 2<sup>d</sup> water

Timber, scattering mesquites and  
palo verde

No 25 - On a true line on E  
boundary of sec 1.

Over level land

Although scattering undergrowth  
Difference between measurements of

40.29 chs, by two sets of chains is  
4 chs, position of middle point

By 1<sup>st</sup> set 40.26 chs

By 2<sup>nd</sup> set 40.22 chs, the mean of  
which is

Through the 17.8, Ps 10 and 11 E-Continued

Stains

44.29

The old stake being decayed and marks obliterated, I re-establish cor. at the old cor point, as follows:

Set a granite stone 18 x 12 x 6 ins in the ground for  $\frac{1}{4}$  sec cor. marked 441 on W face, from which a magnetic 10 ins diam. brass  $N 52^{\circ} 2' W$ , 52 lbs dist, marked  $\frac{1}{4}$  S 1, B. 7; dig pits 18 x 18 x 12 ins, N and S of stone, 3 ft dist, and raise a mound of earth  $3\frac{1}{2}$  ft base,  $1\frac{1}{2}$  ft high, W of cor "Placed north from  $\frac{1}{4}$  sec cor."

45.00

Wash 100 lbs wide, course N westerly

54.00

Wash 100 lbs wide, course N westerly

62.00

Wash 15 lbs wide, course N westerly

74.00

Wash 40 lbs wide, course W westerly

Difference between measurements of 79.94 chs, by two sets of chains

Resurvey of the Second Linda Meridian  
Chains

is 8 lks position of middle point

By 1<sup>st</sup> set 79.90 chs

By 2<sup>d</sup> set 79.98 chs, the mean of  
which is

79.94 The cor of Ops 16 and 17 S. R. 10  
E. as heretofore described

Land, rolling

Soil, gravelly; 2<sup>d</sup> rata

Timber, scattering mesquite; im-  
dugrowth, palo verde and mesquite

January 23, 1901.

Philip Cantzen  
W. S. Deputy Surveyor

Boundaries of T. 17 S. R. 11 E.  
 Latitudes, Departures and closing Errors

LINE DESIGNATED	TRUE BEARING	DISTANCE	LATITUDES		DEPARTURES	
			N	S	E	W
1st Boundary	West	469.64				469.64
2nd Guide Meridian	North	409.85	409.85			
"	N 0° 25' W	40.29	40.29			
N. Boundary	NORTH	29.13	29.13			
E. Boundary	EAST	469.43			469.43	
Convergency	South	480.00		480.00		
					45	
			479.27	480.00	469.88	469.93
				479.27		469.88
				0.73		
				Error in	Dep.	05

check

A list of the Names of the Individuals employed by *Philip*  
*Contzen* U. S. Deputy Surveyor, to assist in running, meas-  
uring and marking the lines and corners described in the foregoing  
Field Notes of the <sup>re-</sup> survey of the *2<sup>nd</sup> Guide Meridian*  
*bet Tps. 17 S. Rs 10 and 11 East*

BOOK 1551

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

*G. A. Hawley* Chainman,

*B. F. DeChastain* Chainman

*Arthur Coque* Chainman,

*Manuel Salazar* Chainman

*John M. Inye* Axeman,

Flagman.

*Chas Payne*

FINAL OATHS OF ASSISTANTS.

We hereby certify that we assisted *Philip Contzen*  
U. S. Deputy Surveyor, in <sup>re-</sup> surveying all those parts or portions of

*the 2<sup>nd</sup> Guide Meridian bet*  
*Tps. 17 S. Rs 10 & 11 East*

BOOK 1551

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 him and under his direction; and that said survey  
has been in all respects, to the best of our knowledge and belief,



According to the instructions furnished by the United States Surveyor General for Arizona.

*G. A. Hawley* Chairman.

*B. F. DeChastain* Chairman.

*Arthur Pogue* Chairman.

*Mannel Salazar* Chairman.

*John M. Page* Axeman.

*Chas. Pogue* Flagman.

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BOOK 1551

Sworn to and subscribed before me this 25<sup>th</sup> day of

*January*, 1901.

*Philip Contzen*  
U. S. Deputy Surveyor  
Notary Public.

*No notary available*

My Commission expires -

FINAL OATH OF U. S. DEPUTY SURVEYOR.

BOOK 1551

I, *Philip Contzen* U. S. Deputy Surveyor, do solemnly swear that in pursuance of ~~EXECUTIVE~~ special instructions of date March 26, 1901, received from George Christ, U. S. Surveyor General for Arizona, I have well and 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, resurveyed all those parts or portions of the *2<sup>nd</sup> Guide Meridian bet. Tps. 17 S. Rs 10<sup>and</sup> 11E*

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

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*Philip Contzen*  
U. S. Deputy Surveyor.

Sworn to and subscribed before me this *3* day of *August*  
1901.

*George Christ*  
*U.S. Surveyor General*

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