

RESURVEY 4<sup>th</sup> STAND.

(TROS R. 12E)

CONTRACT-78

PH. CONTZEN

U.S. DEP. SUR.

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BOOK 1541

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FIELD NOTES  
GENERAL LAND OFFICE.

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BOOK 1541

Field Notes  
Of the resurvey of the  
Fourth Standard Parallel South  
Through  
Range 12 East  
Of the  
Gila and Salt River Basins Meridian  
In the  
Territory of Arizona  
As surveyed by

Philip Cortzen  
U. S. Deputy Surveyor

Under his contract No. 78  
Dated December 26, 1900.

Survey commenced March 20, 1901  
Survey completed March 21, 1901

## Index

D. 20 S., R. 12 E.

31	32	33	34	35	36
16	14	11	9	7	4

4  
Remains  
of the

1-

Fourth Standard Parallel South  
Chains

March 20, 1901.

Finding from a preliminary inspection of this line that the alignment and measurement of same is defective, therefore I find it necessary for the proper prosecution of my survey to reestablish the line.

Therefore I commenced at S C of Tps 20 S, Rs 12 and 13 E, as heretofore described.

Then I run W on a true line on the south boundary of sec 36, over mountainous land

- 1.50 Push 15 lbs wide, course N easterly
- 2.50 Push 15 lbs wide, course S easterly
- 3.50 Ascend
- 7.60 Top, bears N E and S W.
- 23.80 Descend
- 27.10 Foot



## Through Range 12 East - Continued

Chains  
35.70

Wash 40 lks wide; course  $\nearrow$  easterly  
Difference between measurements of  
4000 els, by two sets of chainmen is 10  
lks; position of middle point.

By 1<sup>st</sup> set 4005 elsBy 2<sup>d</sup> set 3995 els; the mean of which is

40.00

Point for  $\frac{1}{4}$  sec cor falls in wash.

41.00

Set a granite stone 18 x 12 x 6 ins, 12 ins  
in the ground for standard  $\frac{1}{4}$   
sec cor, marked W.C., S.C.  $\frac{1}{4}$  36 on  $\nearrow$   
face, from which a mesquite 52 ins  
chain, bears  $\nearrow 10^\circ$  E, 188 lks dist, marked  
W.C., S.C.  $\frac{1}{4}$  S 36 B.T.

A mesquite 7 ins chain, bears  $\nearrow 39\frac{1}{2}^\circ$   
N, 201 lks dist, marked W.C., S.C.  $\frac{1}{4}$  S  
36 B.T.

57.00

Ascernd

54.00

Top, bears E and W; descends  
Difference between measurements of

Overview of the Ananth Standard Parallel South  
Chassis

8,000 chs by two sets of chammim is  
20 lbs. position of middle joints.

By 1<sup>st</sup> set 80,10 chs

By 2<sup>d</sup> set 79,90 chs, the mean of which is

8,000

Set a sandstone 18 x 6 x 4 ins, 12 ins  
in the ground for standard cor of  
secs 35 and 36 marked S on N  
with 1 groove on E and 5 grooves on  
W faces, from which a mesquite 10  
ins diam, bears N 10 1/4 E, 150 lbs dist,  
marked S 20 S, R 12 E, S 36, B. 7.

A mesquite 6 ins diam, bears N 7 1/4  
W, 92 1/2 lbs dist, marked S 20 S, R  
12 E, S 35, B. 7.

Land, mountainous.

Soil, gravelly, 3<sup>d</sup> rate

Timber, scattering mesquite

Mountainous land, 6,000 chs

## Through Range 12 East - continued

Chains West on south boundary of sec 35.  
Over mountainous land

6.00 Ascend

30.00 Top of ridge, bears  $71^{\circ} E$  and  $S 70^{\circ}$ .

Descend

38.00 Difference between measurements of  
40.00 chs, by two sets of chains is  
32 lbs, position of middle point,  
By 1<sup>st</sup> set 40.16 chs.

By 2<sup>d</sup> set 39.84 chs, the mean of which is

40.00 Set a small pair stone  $18 \times 12 \times 6$  ins,  $1/2$   
ins in the ground for standard  $1/4$   
sec cor, marked  $S C 1/4 35$  on N face  
from which a magnetic 6 ins  
chain, bears  $71^{\circ} E$ , 92 lbs dist,  
marked  $S C 1/4 S 35 13 71$ , no other  
trees within limit, and raise a  
mound of stone 2 ft base,  $1 1/2$  ft  
high N of cor.

Pits impracticable



Resurvey of the South Standard Parallel Survey

Chains	
41.00	Top of spur, bars N E and S W
42.10	Descend
47.50	Foot
48.10	Wash 10 lks wide, course easterly
60.30	Wash 40 lks wide, course N easterly
69.50	Ascend

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

By 1<sup>st</sup> set 80.20 chs

By 2<sup>d</sup> set 79.80 chs; the mean of which,

80.00

Set a sandstone 18 x 12 x 5 ins, 12 ins in the ground for standard cor of sec 34 and 35, marked with 2 grooves on E and 4 grooves on W faces and raise a mound of stone 2 ft base, 1 1/2 ft high N of cor, Pits in, practicable.

Land, mountainous



Through Range 121 East - Continued  
Chains

Soil, gravelly; 3<sup>rd</sup> rate  
Pine, scattering mesquite  
Mountainous land 6,000 chs

Rest on south boundary of sec 34  
Over mountainous land

2.50 Top; bars NE and SW.

3.50 Trail, bars NE and SW

15.50 Descent

27.00 Foot

27.50 Wash 25 chs wide, course N easterly

29.00 Ascent

38.00 Top; descent

Difference between measurements of  
4,000 chs, by two sets of chainmen is  
8 chs, position of middle point.

By 1<sup>st</sup> set 39.96 chs

By 2<sup>nd</sup> set 40.04 chs, the mean of which is

40.00 Set a volcanic stone 18 x 8 x 8 ins, 12

Summary of the Smith Standard Parallel South  
Chains

- ins in the ground for standard  $\frac{1}{4}$  sec  
marked  
cor. S. C.  $\frac{1}{4}$  34 on N face, and raised  
mound of stone 2 ft base,  $1\frac{1}{2}$  ft high  
W of cor. Pits impracticable.
- 42.50 Ascend
- 69.00 Top
- 69.30 Descend
- 71.30 Foot
- 71.80 Wash 40 lbs wide, course 1 southwardly  
Difference between measurements  
of 8000 chs. by two sets of chainmen is  
24 lbs. position of middle point  
By 1<sup>st</sup> set 84.12 chs  
By 2<sup>d</sup> set 79.88 chs. the mean of which
- 8000 Set a sandstone 18x12x7 ins, 12  
ins in the ground for standard cor  
of sec 33 and 34, marked with 3  
grooves on E. and 3 grooves on  
W face, from which a mesquite

Through Range 12 East - continued

Chains

5 ins chain, bears  $75^{\circ} E$ , 140 lbs  
 Dist. marked P 20 S, R 12 E, S  
 34, B. 7.

A mag. 8 ins chain, bears  
 $72^{\circ} W$ , 152 lbs Dist. marked  
 P 20 S, R 12 E, S 33, B. 7.

Land, mountainous  
 Soil, gravelly; 3<sup>d</sup> and 4<sup>th</sup> rates  
 No timber

Mountainous land, 71.80 chs

March 20, 1901

March 21, 1901,

Rest on south boundary of sec 33  
 Over mountainous land

Ascending

26.00

Top, bears  $7$  and  $8$ , descending over  
 bluffs

Differences between measurements



Resurvey of the Fourth Standard Parallel Sheet  
Chains

- of 4000 chs, by two sets of chainmen  
is 20 lbs; position of middle point  
By 1<sup>st</sup> set 40.80 chs  
By 2<sup>d</sup> set 39.90 chs, the mean of which  
40.00 Cor point falls in wash 40 lbs wide  
course southerly, I perpetuate the  
cor on solid ground as follows:  
41.00 Set a granite stone 18 x 12 x 12  
ins, 12 ins in the ground for witness  
cor for standard 1/4 sec cor, marked  
W.C., S.C. 1/4 33 on N face, from  
which a mesquite 8 ins diam, bears  
N 49° E, 63 lbs dist, marked W.C.  
S.C. 1/4 S 33 B.T. no other trees  
within limit, and raise a mound  
of stone 2 ft base, 1 1/2 ft high N  
of cor  
41.50 Ascending  
46.20 Wash 25 lbs wide, course southerly



Through Range 12 East - Continued

Chains  
 53.00 Wash 20 lbs wide, course southerly  
 55.00 Spring (Aguada de Pinos) bears 1 ch S.  
 58.11 Ascend

59.50 Wash 25 lbs wide, course  $\frac{1}{2}$  easterly  
 Difference between measurements of  
 8.00 chs, by two sets of chainmen is  
 22 lbs; position of middle point.

By 1<sup>st</sup> set 80.11 chs

By 2<sup>d</sup> set 79.89 chs, the mean of which is

80.00 Set a granite stone 24 x 12 x 6 ins  
 18 ins in the ground for standard  
 cor of secs 32 and 33, marked S C on  
 N, with 4 grooves on E and 2 grooves  
 on W faces, and raise a mound of  
 stone 2 ft base, 1 1/2 ft high, N of cor.

Pits impracticable

Land, mountainous.

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

Timber, a few scattering mesquites

Resurvey of the Fourth Standard Parallel <sup>S. 1/4</sup>  
 Chain

Mountainous land, 80.00 chs

Rest on south boundary of sec 32  
 Over mountainous land

Ascending

20.10 Top, bears N and S

20.80 Descend

21.80 Rain, bears S.W. and N.E.

22.50 Rain, bears N.E. and S.W.

23.50 Descend

28.30 Foot, ascend

35.20 Descend

36.00 Rain, 20 lbs wide, course S.W. and N.E.,  
 ascend

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

By 1<sup>st</sup> set 40.05 chs

By 2<sup>d</sup> set 39.95 chs; the mean of which is

Through Range 121 East - Continued

Chains

44.00

Set a granite stone  $15 \times 8 \times 4$  ins, 12 ins in the ground for standard  $1/4$  sec cov, marked S.C. 1432 on N face and raise a mound of stone 2 ft base,  $1/2$  ft high N of cov. Pits impracticable.

44.80 Descend

46.00 Foot

46.50 Ravine 30 lbs wide, course N and S ascend

70.50 Top, bars N and S

70.80 Descend

75.00 Foot

76.00 Ascend

78.00 Top of ascent; descend

Difference between measurements of 8000 chs, by two sets of chains is 4 lbs. Position of middle point. By 1<sup>st</sup> set 8002



Boundary of the Fourth Standard Parallel <sup>S<sub>1/2</sub> N</sup>

Chamis

8000

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

The point for standard cor of secs 31 and 32 falls on stone in place,

8x12x6 ins above ground, on which cut cross (X) at the exact point for

standard sec cor, marked S C on

N with 5 grooves on E and 1

groove on W faces, and raised

a mound of stone 2 ft base, 1 1/2 ft

high, N of cor. Pits impracticable

Land, mountainous

Soil, rocky, 4<sup>th</sup> rate

No timber

Mountainous land 8000 chs

West on south boundary of Sec 31

Over mountainous land

28.80

Foot of descent, wash 10 chs wide,

course, westerly



## Through Range 12 East - Continued

Chains  
25.10

Ascend

29.50 Top, bars N and S

32.50 Foot

33.10

Ascend

Difference between measurements  
of 4000 chs, by two sets of chainmen  
is 24 chs, position of middle point

By 1<sup>st</sup> set 4012 chsBy 2<sup>d</sup> set 39.88 chs, the mean of which is

40.00

Set a granite stone 20 x 14 x 10 ins  
1 1/4 ins in the ground for standard  
1/4 sec cor, marked S. C. 1/4 31 on N  
face and raise a mound of stone  
2 ft base, 1 1/2 ft high N of cor. Sets  
impracticable.

43.10

Descend

55.10

Foot; ascend

62.10

Top; descend

68.00

Foot; ascend along north slope of ridge

80.00

Top, bars N and S

Resurvey of the Smith's Standard Parallel  
Chains

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

By 1<sup>st</sup> set 86.75 chs

By 2<sup>d</sup> set 86.65 chs, the mean of which

.86.70

is a point 302 chs of the standard  
of secs 31 and 36, which is a  
stone marked and witnessed as  
described by the surveyor general

Set a volcanic stone 18x6x12  
ins, 12 ins in the ground for closing  
cor of S 20 S, R 12 E, marked S C  
on N, C C on E, with 6 grooves  
on N and E faces, and raise a  
mound of stone 2 ft base 1 1/2 ft  
high N of cor. It's impracticable  
Land, mountainous

Soil, rocky, 4<sup>th</sup> rate  
No timber!

Through Range 12 East - continued  
 Chavis Mountainous land 86.70 chs

March 21, 1901

NOTE: I destroyed all the old corners  
 which were defective.

### General Description

- u -

Through Range 12 East, this line runs across low ridges and mountains in the east with higher ranges in the west, having a northerly and southerly trend.

The soil for the most part is gravelly and rocky, 3<sup>d</sup> and 4<sup>th</sup> rate, and is practically worthless.

The timber consists of scattering mesquites; sparse undergrowth of brodiaea with a sprinkling of cacti.

Along boundary of secs 34, 35 and 36 there is mountain grasses and other grazing grasses.

The only water along the line is



Boundary of the Fourth Standard Parallel

a spring, "Aguada de Fios" on the south boundary of sec<sup>33</sup>, from which a small stream flows southward.

The land to the south of the line has the same general features as that to the north, being of a rolling and broken character in the east, with high, rocky and precipitous mountains in the west and southwest.

Philip Couzler  
U.S. Deputy Surveyor



Through Range 121 East - Concluded

List of Names.

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A list of the names of the individuals employed

*Philip Contzen*

U. S. Deputy Surveyor, to assist in running, measuring and marking the lines and corners described in the foregoing Field Notes of the <sup>22</sup> survey of the *4<sup>th</sup>*

*Standard Parallel South, through Range 12 East*

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

- John M. Trauger* Chainman.
- Antonio Elias* Chainman.
- Thomas Elias* Chainman.
- C. O. Elias* Chainman.
- Juan Elias* Axeman.
- ..... Axeman.
- Tom Lancee* Flagman.

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# Final Oath of Assistants.

We hereby certify that we assisted *Philip*  
*Contzen* U. S. Deputy Surveyor, in  
surveying all those parts or portions of the *4<sup>th</sup>*  
*Standard Parallel South*  
*through Range 12 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. Trayer* Chainman.
- Antonio Elias* Chainman.
- Thomas Elias* Chainman.
- C. D. Elias* Chainman.
- Juan Elias* Axeman.
- ..... Axeman.
- Tom Lawrence* Flagman.

Sworn and subscribed before me, this *15<sup>th</sup>*  
day of *April* 1901.

*Philip Contzen*  
Notary Public.  
U. S. Deputy Surveyor  
No notary available

[SEAL.]

# Final Oath of U. S. Deputy Surveyor.

23

I, *Philip Cantzen*.....

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 ... *26<sup>th</sup>* ... 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 ... *4<sup>th</sup>* ...

*Stanclard Parallel South*  
*through Range 12 East*

BOOK 1541

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



24  
500  
suffer the penalty of perjury, under the provisions of an act  
of Congress approved August 8, 1846.

*Philip Conz*  
U. S. Deputy Surveyor

Sworn to and subscribed before me this... 2<sup>d</sup>...

day of *August*... 1901.

*George Christ*  
U. S. Surveyor Gen



U. S. Surveyor-General's Office.

Phoenix, A.T., March 25-1902.

The foregoing Field Notes of the Surveys

of 4th Standard Par South  
through Range 12 East

Gila and Salt River Meridian in

Arizona, executed by Philip Cortzen

under his contract No. 78.

dated Dec. 26, 1900, having been critic-  
ally examined, the necessary corrections  
and explanations made, the said Field  
Notes and the surveys they describe  
are hereby approved.

*Hugh H. Price*

U. S. Surveyor-General for Ariz.