

Resurvey  $\div$  3<sup>rd</sup> STANDARD PARALLEL  
NORTH - RANGE 11 E

CONTRACT NO 62

DEC. 21. 1899

P. CONTZEN

U. S. DEP. SUR.

1305

No. 1305

BOOK 1305

4-671

**FIELD NOTES**  
GENERAL LAND OFFICE.

BOOK 1305

## Preliminary Oaths of Assistants.

We, *Martin Ranzy, Rafael Vaca*  
and *E. Sediv* —

do solemnly swear that we will well and faithfully execute the duties of Chain Carriers; that we will level the chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distance to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of the

*subdivisional lines*  
*of T. 13 N. R. 11 E*

of the Gila and Salt River Base and Meridian in the Territory of Arizona.

*Martin Ranzy* Chainman.

*Rafael Vaca* Chainman.

*E. Sediv* Chainman.

Chainman.

Subscribed and sworn before me, this *8<sup>th</sup>*

day of *August* 1900

*W. H. Burdette*  
Notary Public.

11A

We, *Bob Johnson* and *Joseph J. Alger*

do solemnly swear that we will well and truly perform the duties of

*axeman and flagman*

in the establishment of corners and other duties, according to instructions given us, and to the best of our skill and ability, in the survey of the

*subdivisional lines of T. 13 N. R. 11 E*

of the Gila and Salt River Base and Meridian, in the Territory of Arizona.

*Bob Johnson, axeman*  
*Joseph J. Alger, flagman*

Subscribed and sworn to before me this

*8th*

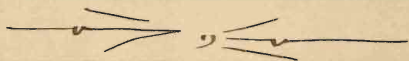
day of *August* 1900

*W. H. Burbock*  
Notary Public.





Field notes  
of the resurvey of the  
3<sup>rd</sup> Standard Parallel north  
Township 13 North, Range 11 East.  
of the  
Gila & Salt River Base & Meridian  
in the  
Territory of Arizona  
as surveyed by  
Philip Coutzen  
U. S. Deputy Surveyor  
under his contract N<sup>o</sup> 62  
Dated December 21. 1899



Survey commenced Aug. 9. 1900  
Survey completed Aug. 11. 1900

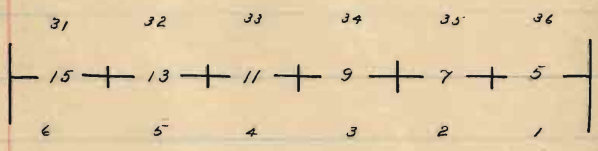
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S. BOUNDARY T. 13 N. R. 11 E.

3<sup>rd</sup> Standard Parallel North



Transcribed  
Oct 9-01 - S. X.

BOOK 1305

— Index —

Resurvey of the 3<sup>rd</sup> Standard Parallel  
chains

Survey commenced August 9, 1900 and executed with a Young & Sons light mountain transit N<sup>o</sup> 5609, with a Smith's solar attachment. The horizontal limb is provided with two double verniers placed opposite to each other reading to single minutes of arc, which is also the least count of the verniers of the latitude and declination arcs.

The instrument was examined, tested on the true meridian at Tucson Arizona, found correct and was approved by the Surveyor General of Arizona.

In order to test the solar apparatus by comparing the results of observations on the sun, made

13th, T 13 N, R. 11 E

chains

during am and pm hours, with a true meridian, determined by observations on polaris, & proceed as follows:

At the standard corner of Townships 13 North Ranges 11 and 12 E which is a stone marked and witnessed as described by the surveyor general.

at 3.<sup>30</sup> pm l.m.t. I set off  $34^{\circ}28'$  on the lat. arc:  $15^{\circ}47'$  N on the decl. arc, and mark the true meridian thus determined with the solar by a cross on a stone firmly set in the ground 5 chs. N. of the instrument.

August 4, 1900. at 10.<sup>08</sup> pm l.m.t. I observe Polaris at Eastern elongation in accordance with



## Resurvey of the 3<sup>rd</sup> Standard chains

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.

Aug 10, 1900 at 8.30 am l.m.t. I lay off the azimuth of Solaris  $1^{\circ}29'$  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 0.15 ins. West of the mark determined by the solar.

at  $9^{\text{h}}20^{\text{m}}$  a.m. l.m.t. I set off  $34^{\circ}28'$  on the lat. arc;  $15^{\circ}35'N$  on the decl. arc. and mark the true meridian determined with the solar by a cross on the

Parallel North, T-13N. R-11E. continued.  
chains

stone already set 5 chs. N. of my station. This mark falls 0.2 ins West of the true meridian established by the Polaris observation.

The solar apparatus by P.M. and a.m. observations defines positions for true meridians about 0'8" East and 0'11" West of the meridian established by the Polaris observations; therefore I conclude that the adjustments are satisfactory. The magnetic bearing of the true meridian at 9.30 a.m. is  $14^{\circ}03' W$ . The angle thus determined reduced by the Table, page 100, gives the mean magnetic declination  $14^{\circ}00' E$ . Knowing by a former survey

Resurvey of the 3<sup>rd</sup> Standard  
chains

made by me for private parties, that the standard line through Range 11 E. is out of limits, it is therefore necessary to reestablish this line.

From the standard corner of Tp. 13 N. R. 11 and 12 E. which is a stone firmly set, marked and witnessed as described by the surveyor General.

Run

West on the S. bdy of sec. 36.  
over level and rolling land

30.30

Descend

39.30

Bottom of cañon, 200 yds wide, course  
southerly; ascend

40.00

Set a sand stone 18x12x8 in. 12 in  
in the ground for standard  $\frac{1}{4}$  sec  
Cor. marked  $\frac{1}{4}$  S. 36. on N face

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Parallel North, T13N, R11E, continued  
chains

from which

a Pine 6 ins. dia. bears  $N29\frac{1}{2}^{\circ}E$  70  
lks. dist. marked S.C.  $\frac{1}{4}$  S 36 B.T.

a Pine 12 ins. dia. bears  $N26\frac{3}{4}^{\circ}W$   
126 lks. dist. marked S.C.  $\frac{1}{4}$  S 36. B.T.

43.50 Top of ascent, bears N and S.

80.00 Set an oak post 3 ft long, 4 ins. sq.  
~~24~~ ins. in the ground for standard  
sec. cor. to secs. 35 and 36, marked  
S.C. T13N, R11E on N, S 36 on E, and  
S 35 on W faces with 1 groove on E  
and 5 grooves on W faces.

from which

a Pine 26 ins. diam. bears  
 $N45^{\circ}E$ , 28 lks. dist. marked  
T13N, R11E, S 36. B.T.

a Pine 22 ins. diam. bears  
 $N48\frac{1}{2}^{\circ}W$ , 68 lks. dist. marked  
T13N, R11E, S. 35. B.T.



Resurvey of the 3<sup>rd</sup> Standard  
chains

Land level and rolling  
Soil, gravelly, 2<sup>nd</sup> rate  
Timber, Pine and some oak  
Heavily timbered land 80. chs.

- 
- West. on S. Bdy. of sec 35  
over level and rolling ground
- 30.40 Creek 10 chs. wide, course N
- 30.50 Trail bears N and S
- 40.00 Set a Sandstone 18x14x6 ins.  
12 ins. in the ground for standard  
1/4 sec. cor. marked S.C. 1/4 S 35  
on N. face, from which  
a Pine 30 ins. diam. bears N 28° E  
47 chs. dist. marked S.C. 1/4 S 35 BT  
a Pine 24 ins. diam. bears N 83° W  
32 chs. dist. marked S.C. 1/4 S 35 BT.
- 46.50 Descend
- 55.50 Bottom, cañon course N; ascend

Parallel North T13N. R11E. continued

chains

- 59.90 Trail bears N and S.
- 61.50 Top of ascent
- 63.00 Descend
- 66.00 Draw, course NE,
- 80.00 Set an oak post 3ft. long 4in. sq.  
24ins. in the ground, for standard  
sec. cor to sec 34 and 35  
marked S.C. T13N. R11E on N.  
S 35 on E and S 34 on W faces  
with 2 grooves on E and 4  
grooves on W. faces, from which  
a Pine 7ins. diam. bears  
N 59 $\frac{3}{4}$ ° E. 23 lks. dist. marked  
T13N. R11E. S 35. B.T.
- a Pine 28ins. diam. bears  
N 70 $\frac{3}{4}$ ° W. 28 lks. dist. marked  
T13N. R11E. S 34. B.T.
- Land level and rolling  
Soil, gravelly, 2<sup>nd</sup> & 3<sup>rd</sup> rate

Resurvey of the 3<sup>rd</sup> Standard  
chains

Timber, Pine and oak  
Heavily timbered land 80, chs.

West. on S. bdy. sec. 34  
over level and broken land

13.50 Descend

16.00 Trail, bears NE and SW.

16.50 Draw bro. N. E.

20.00 Ascend-

27.58 Trail, bears NE and SW.

36.00 Descend

40.00 Put a sandstone 18x12x8 ins. 12 ins  
in the ground for standard  $\frac{1}{4}$  sec. cr.  
marked SC  $\frac{1}{4}$  S. 34 on N face  
from which

a pine 24 ins. diam. bears  
N  $19\frac{1}{2}^{\circ}$  E, 29 chs. dist. marked  
SC  $\frac{1}{4}$  S. 34, B.T.

a Pine 38 ins. diam. bears  
N  $60\frac{1}{2}^{\circ}$  E, 50 chs. dist. marked

Parallel North T13N. R11E, continued  
chains

SC. 34 S 34. B.T.

41.25 Bottom of descent; trail bears  
N and S; ascend

58.00 Top of ascent

64.00 Bottom of

73.00 Top

80.00 Set a sandstone  $18 \times 12 \times 8$  ins.  $12$  ins.  
in the ground for standard cor  
of secs. 33 and 34, marked  
SC. on N. with 3 grooves on  
E and W. faces, from which  
an oak 8 ins. diam. bears  
N  $26\frac{1}{2}^\circ$  E 69 lks. dist. marked  
T13N. R11E. S. 34 B.T.

An oak 8 ins diam. bears N  $55^\circ$  W  
48 lks. dist. marked

T13N. R11E. S. 33. B.T.

Land level and broken  
Soil gradually, 2<sup>nd</sup> & 3<sup>rd</sup> rate



Resurvey of the 3<sup>rd</sup> Standard  
chains

Timber, Pine

Heavily timbered land, 80. chs.

Aug. 11, 1900.

Aug. 12, 1900.

West, on S. bdy, sec. 33

over level and broken land

4,65 Canou course N

8,35 Trail bears N, and S: ascend

15,50 Top of ascent

35,50 Draw, course SE

40,00 Set a Sandstone 18x12x12 ins

12 ins. in the ground for standard

$\frac{1}{4}$  sec. cor. marked S.C.  $\frac{1}{4}$  S. 33. on <sup>7<sup>th</sup></sup> face, from which,

a Pine 6 ins. diam. bears  $N 38\frac{3}{4}^{\circ} E$

95 lks. dist, marked S.C.  $\frac{1}{4}$  S. 33. B.T.

A Pine 20 ins. diam. bears

$N 50^{\circ} W$ , 50 lks. dist, marked

S.C.  $\frac{1}{4}$  S. 33, B.T.

## Parallel North, T13N, R11E. continued.

chains	
42.75	Cañon course N; ascend
46.50	Top of ascent
49.00	Descend
50.50	Cañon, course N,
54.00	Trail bears N and S; ascend
63.50	Top of ascent
68.60	Trail, bears N and S.
72.50	Descend
75.00	Draw, course N; ascend
77.00	Top of ascent
80.00	Set a sandstone 18x10x6 ins 12 ins. in the ground for standard cor. of secs 32 and 33, marked SC, on N. face, with 4 grooves on E and 2 grooves on N. <sup>edges:</sup> <del>faces</del> from which, a Pine 10 ins. diam. bears N76°E, 30 lks. dist. marked T13N, R11E, S. 33, B.T.

Resurvey of the 3<sup>rd</sup> Standard  
chains

A Pine 22 ins. diam. bears  $N 9\frac{1}{2}^{\circ} W$   
52 lbs dist. marked TVB, N, R 11 E  
S 32. B. T.

Land level and broken  
Soil gravelly, 2<sup>nd</sup> & 3<sup>rd</sup> rate  
Timber, Pine and some oak  
Heavily timbered land 80. chs

West on S. bdy, sec. 32  
over broken and mountainous land

- |       |                                                                                                                             |
|-------|-----------------------------------------------------------------------------------------------------------------------------|
| 2.50  | Descend                                                                                                                     |
| 6.75  | Draw, 1 ch wide, ascend                                                                                                     |
| 7.00  | Trail, bears Northerly and Southerly                                                                                        |
| 12.00 | Top of ascent, bears N and S.                                                                                               |
| 20.38 | Trail bears N and S                                                                                                         |
| 40.00 | Get a Sandstone 18x10x8 ins.<br>12 ins. in the ground for standard<br>4 sec. cor. marked SC 45 32<br>on N. face, from which |



Parallel north, T13N. R11E. continued  
chains

a Pine 24 ins. diam. bears  
N5°E. 30 lks. dist. marked  
S.C. 1/4 S. 32. B.T.

a Pine 18 ins. diam. bears  
N28<sup>3</sup>/<sub>4</sub>°W.

41.00 Descend

53.00 Foot of descent and enter canon

55.50 creek 20 lks wide, course N. Easterly

57.00 Leave canon and ascend along  
N bank of a canon running E.

80.00 Set a Sandstone 18 x 12 x 8 ins  
12 ins. in the ground for standard  
cor. of secs. 31 and 32. marked  
S.C. on N face. with 5 grooves  
on E and 1 groove on W. faces  
from which

a Pine 18 ins. diam. bears  
N45<sup>1</sup>/<sub>4</sub>°E. 104 lks. dist. marked  
T13N. R11E. S. 32. B.T.



Resurvey of the 3<sup>rd</sup> Standard  
chains

an oak 8 ins. diam. bears  
N 5° W. 108 lks. dist. marked  
T 13 N, R 11 E, S. 31, B. T.

Land broken and mountainous  
Soil gravelly & rocky 2<sup>nd</sup> & 4<sup>th</sup> rate  
Timber, Pine and some oak  
Heavily timbered land 80. chs.

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West, on S. bdy. sec. 31.

over rolling and broken land  
ascending.

4.50	Top of ascent
15.00	Descent
16.50	Bottom of descent
31.00	Descent
33.55	Canyon course N
38.50	Top
40.00	Get a Sandstone 18x8x6 ins 12 ins. in the ground for

Parallel North T13N. R11E continued  
chains

Standard  $\frac{1}{4}$  sec. cor. marked  
S.C.  $\frac{1}{4}$ S. 31 on N face, from which  
a Pine 28 ins. diam. bears  $N25^{\circ}E$   
32 lks. dist. marked S.C.  $\frac{1}{4}$ S. 31. 13T.  
a Pine 10 ins. diam. bears  
 $N43^{\circ}W$ . 50 lks. dist. marked  
S.C.  $\frac{1}{4}$ S. 31. 13T.

58.00 descend

61.00 Draw 1 ch. wide course N; ascend

69.00 Top of ascent

73.00 descend.

82.50 Foot of descent

85.35 Set a sand stone  $18 \times 12 \times 8$  ins.  
3.34 chs. N. of old standard T<sub>13</sub> cor.  
12 ins. in the ground for  
Standard Township corner  
to Tps 12 and 13 N. R11E, marked  
with 6 notches on N. E. and S  
edges. C.C. on E from which  
a Palo Verde 8 ins. diam. bears

Resurvey of the 3<sup>rd</sup> Standard

S  $32^{\circ}4'$  E. 95-cks. dist. marked

T 12 N. R 11 E. S 6. BT

A Palo Verde 12 ins. diam. bears

N  $72^{\circ}2'$  W 42 cks. dist. marked

T 13 N. R 10 E. S 36. BT.

Land rolling and broken

Soil, gravelly, 2<sup>nd</sup> & 3<sup>rd</sup> rate

Timber, Pine.

Heavily timbered land 85.35-cks.

Aug. 11. 1900.

Note:- Old standard cor. for  
Tps. 12 and 13 N, R 10 and 11 E &  
change the markings to  
correspond for Tps. 12 and 13 N  
R 10 E. only.

In running this line I  
destroyed all corners and

Parallel North T13N, R11E concluded

markings on witness trees  
established by Daniel Drummond.

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General Description

This line runs over well  
rolling and broken country  
cut up by some deep cañons.  
There is some good pine  
timber along this line  
T12S, R11E is broken, however  
it contains some fine pine  
timber. There is some good  
grass which affords good  
feed for sheep and cattle.

Philip Conzen  
U. S. Deputy Surveyor

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No. 1305 BOOK 1305

APPROVAL.

OFFICE OF THE U. S. SURVEYOR GENERAL.

Tucson Arizona 1902.

The foregoing field notes of the <sup>re</sup> survey of 3<sup>rd</sup> Standard Parallel North through Range 11 East.

GILA & SALT RIVER MERIDIAN.

executed by Philip Contzen  
under this contract NO. 62 - dated 12/21/99  
having been critically examined, and the  
necessary corrections and explanations made,  
the said field notes, and the surveys they  
describe, are hereby approved.

Hugh H. Bruce  
U. S. Surveyor General. of Arizona.