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BOOK 1597

4-671

FIELD NOTES  
GENERAL LAND OFFICE.

*South boundaries*  
*of*  
*Tps. 16 S. R's. 23 & 24 E.*



South boundary of T. 16 S. R. 24 E.  
chains

with marked stone 24 ins  
in the ground for cor. of  
secs. 2, 3, 34 and 35, marked  
T. 16 S. S. 35 on N. E.,  
R. 24 E. S. 2 on S. E.,  
T. 17 S. S. 3 on S. W., and  
S. 34 on N. W. faces; with  
2 notches on E. and 4  
notches on W. edges; dig  
pits 18 x 18 x 12 ins. in each  
sec. 5 1/2 ft. dist., and raise  
a mound of earth 4 ft.  
base, 2 ft. high, W. of cor.  
Land level <sup>2nd</sup> gently rolling  
Soil, loam; 2<sup>nd</sup> rate  
No timber

S 90° 51' E, bet. secs. 2 and 35  
Over level and gently rolling land



- South boundary of
- Chains
- 40.00 Set a pine post, 3 ft. long, 4 ins. sq., with marked stone 24 ins. in the ground for  $\frac{1}{4}$  sec. cor., marked  $\frac{1}{4}$  S. on N. face; dig pits 18x18x12 ins. E. and W. of post 3 ft. dist; and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, N. of cor.
- 44.53 Trail, bears N. and S.
- 53.43 Trail, bears N. and S.
- 57.54 Trail, bears N. and S.
- 74.26 Trail, bears N. N.E and S. S.W.
- 80.00 Set a pine post 3 ft. long, 4 ins. sq., with marked stone, 24 ins. in the ground for cor. of secs. 1, 2,  $35\frac{2}{3}$ /<sub>36</sub>, marked

## T. 16 S. R. 24 E. - Continued

Chains

T. 16 S. S. 36 on N. E,  
 R. 24 E. S. 1 on S. E,  
 T. 17 S. S. 2 on S. W. and  
 marked with 5 notches on W. & 1 notch on E. edges  
 S. 35 on N. W. faces, dig  
 pits 18x18x12 ins. in each  
 sec. 5½ ft. dist. and raise  
 a mound of earth 4 ft.  
 base, 2 ft. high W. of cor.  
 Land level and gently rolling  
 Soil, sandy loam; 2<sup>nd</sup> rate  
 No timber

S 89° 51' E, bet. sec. 1 and 36

Over level and gently rolling land

39.48 Trail, bears N. N. E 2<sup>nd</sup> of S. S. W.40.00 Set a pine post, 3 ft. long,  
 4 ins. sq; with marked  
 stone 24 ins. in the ground  
 for ¼ sec. cor., marked

## South boundary of

Chains

$\frac{1}{4}$  S. on N. face; dig pits  $18 \times 18 \times 12$  ins. E. and W. of post, 3 ft. dist; and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high N. of cor.

73.54 Trail, bears N. N. E.  $\frac{2}{3}$  of S. W.

80.00 The cor. of Tps. 16 and 17 S.  
R's 24 and 25 E.

Land level and gently rolling  
Soil, sandy loam; 2<sup>nd</sup> rate  
No timber

December 31, 1895

T. 17 S. R. 24 E. is mountainous  
in the South Western part,  
the remainder is level <sup>and</sup>  
gently rolling land with an  
abundant <sup>growth</sup> of nutritious grasses.  
The township should be subdivided.



T. 16 S. R. 24 E. - Concluded

## Boundaries of T. 16 S. R. 24 E.

Latitudes, departures &amp; closing errors

LINE DESIGNATED	TRUE BEARING	DIST.	LATITUDES		DEPARTURES	
			N	S	E	W
S. Bdy.	N 89° 51' W	460.00	---	1.20	---	460.00
W. Bdy.	Nor <sup>th</sup>	478.30	478.30	---	---	---
N. Bdy.	EAST	460.14	---	---	460.14	---
E. Bdy.	SOUTH	479.53	---	479.53	---	---
Convergency	---	---	---	---	.46	---
TOTALS	---	---	479.50	479.53	460.60	460.00
				479.50	460.00	
ERROR in LAT.	---	---	---	.03	---	0.60
						ERROR in DEP.

Philip Contzer,  
Compassman

chains

South boundary of

Owing <sup>to the fact</sup> that a portion of the South boundary of T. 16 S. R. 23 E. is impracticable for chaining, as stated in connection with the establishment of the Auxiliary Base Line through Tps. 16 S. R's 23 and 24 E., I survey the practicable portion from cor. of Tps. 16<sup>th</sup> and 17<sup>th</sup> S. R's 23 and 24 E. on a true line Westerly and from cor. of Tps. 16<sup>th</sup> and 17<sup>th</sup> S. R's 22 and 23 E. on a true line Easterly.

From a high point in the Dragoon Mountains visible from <sup>both</sup> ends of



T. 16 S. R. 23 E.

chains

the South boundary,  
I determine the course  
connecting the S. E. cor. <sup>and</sup>  
the S. W. <sup>cor</sup> of T. 16 S. R.  
23 E. to be  $N 89^{\circ} 56' W$   
and  $S 89^{\circ} 56' E$ . —

I begin at cor. of Tps.  
16 and 17 S. R's 23 and 24 E,  
which I established  
December 30. 1895 —

January 2. 1896: At  
9<sup>h</sup> 30<sup>m</sup> a.m., l. m. t.,  
I set off  $32^{\circ} 0'$  on the  
lat. arc.  $22^{\circ} 54'$  S. on the  
decl. arc. and determine  
a true meridian with  
the solar.

Thence I run

South boundary of  
Chains.

- N 89° 56' W. on a true line  
bet. secs. 1 and 36  
Over rolling land through  
dense sage and mesquite  
undergrowth
- 7.70 Trail, bears N. E. and S. W.
- 32.00 Leave dense sage under-  
growth, bears N. and S.
- 40.00 Set a sandstone 14 x 7 x 6  
ins., 9 ins. in the ground,  
for  $\frac{1}{4}$  sec. cor., marked  
 $\frac{1}{4}$  on N. face; and raise  
a mound of stone 2 ft  
base,  $1\frac{1}{2}$  ft high, N. of cor.  
Pits impracticable
- 42.67 Descend
- 43.25 Bottom, bears N. and S.
- 43.50 Dry wash, 50 lks. wide, course N
- 43.75 Ascend

## T. 16 S. R. 23 E. - Continued

Chains

- 44.25 Top, bears N. and S.
- 46.45 Dry wash, 10 lks. wide, course N.
- 52.50 Descend
- 63.50 Foot of descent, bears N.N.E <sup>2nd</sup> of N.W.
- 63.55 Dry wash, 10 lks. wide, course N.
- 63.60 Ascend
- 64.50 Top, bears N.N.E <sup>2nd</sup> of S.S.W.
- 69.30 Descend
- 69.70 Foot of descent
- 69.75 Dry wash, 10 lks. wide, course N.
- 70.00 Ascend
- 70.35 Top, bears N.N.E <sup>2nd</sup> of S.S.W.
- 78.82 Descend
- 79.60 Foot of descent, bears N.E <sup>2nd</sup> of S.W.
- 79.65 Dry wash, 12 lks. wide, course N.E
- 79.70 Ascend
- 80.00 Set a sandstone 16x12x10  
ins., 12. ins. in the ground  
for cor. of secs. 1, 2, 35 <sup>2nd</sup> of 36



South boundary of  
 drains

marked

T. 16 S. on N. E.,  
 R. 23 E. on S. E., and  
 T. 17 S. on S. W. faces,  
 with 1 notch on E. and  
 5 notches on W. edges;  
 and raise a mound  
 of stone, 2 ft. base,  $1\frac{1}{2}$  ft.  
 high, W. of cor. Pits impracticable.

Land rolling

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

No timber; Undergrowth  
 sage and mesquite.

Land covered with dense  
 undergrowth 32 chs.

N 89° 56' W. on a true line  
 bet. sees. 2 and 35

## T. 16 S. R. 23 E. - Continued

Chains

Ascending

- .50 Top, bears N. E. <sup>2nd</sup> and S. W.
- 13.50 Trail, bears N. E. and S. W.
- 14.13 Old road leading to  
Mines, bears N. E. <sup>2nd</sup> and S. W.
- 16.56 Descend
- 17.25 Enter bottom, bears N. N. E. <sup>2nd</sup> and S. W.
- 20.50 Dry wash 100 lks. wide course N. E.
- 21.00 Leave bottom and ascend
- 24.75 Dry wash, 10 lks., <sup>wide</sup> course N. E.
- 26.00 Top, bears N. E. and S. W.
- 30.50 Descend
- 31.00 Enter bottom bears N. W. <sup>2nd</sup> and S. E.
- 32.00 Dry wash, 20 lks. wide, course S. S. E.
- 33.00 Leave bottom and ascend
- 34.00 Top, bears N. W. and S. E.
- 40.00 Set a lime stone 16 x 7 x 5  
ins., 12 ins., in the ground  
for 1/4 sec. cor., marked

South boundary of  
Chains

- $\frac{1}{4}$  on N. face; and  
 raise a mound of stone  
 2 ft. base,  $1\frac{1}{2}$  ft. high  
 N. of cor. Pits impracticable  
 50.00 Ascend Dragoon Mountains  
 80.00 Set a limestone  $18 \times 8 \times 6$ ,  
 12 ins. in the ground for  
 cor. of secs. 2, 3, 34 and 35,  
 marked  
 T. 16 S. on N.E.,  
 R. 23 E. on S.E., and  
 T. 17 S. on S.W. faces;  
 with 2 notches on E. and  
 4 notches on W. faces, and  
 raise a mound of stone  
 2 ft. base,  $1\frac{1}{2}$  ft. high  
 W. of cor. Pits impracticable  
 Land rolling and mountainous  
 Soil, hard and gravelly



T. 16 S. R. 23 E.—Continued

Chains

Timber, scattering cedar on  
W. end of mile; Under-  
growth, scattering mesquite  
Mountainous land 30chs

At this corner I discontinued  
on account of high mountains

I now proceed to the  
corner of Tps. 16 and 17 S.  
R's 22 and 23 E, which  
is a granite stone marked  
and witnessed as described  
by the surveyor general  
January 2. 1896. At 2<sup>h</sup> 10<sup>m</sup>  
p. m., l. m. t., I set off  
 $32^{\circ} 00' N$ , on the lat. arc;  
 $22^{\circ} 54' S$ , on the decl. arc;  
and determine a true

South boundary of  
Chains

meridian with the solar  
at the cor. of Tps. 16 and 17 S.  
R's 22 and 23 E.

Thence I run

$S 89^{\circ} 56' E$  on a true line  
bet. secs. 6 and 31

Over rolling land

. 33 Road from Tombstone to  
Willcox, bears N. N. E  $\frac{1}{2}$  S. S. W

4. 43 Ascend

6. 43 Top of ascent, bears N. N. E  $\frac{1}{2}$  S. S. W

13. 93 Dry wash, 20 lks. wide, course S. W.

20. 43 In order to establish the  
cor. of secs. 5, 6, 31 and 32  
of this boundary -  $S 0^{\circ} 3' E$   
of the cor. of secs. 17, 18, 19  $\frac{1}{2}$  20  
of T. 16 S. R. 23 E., and  
at the same time to make  
the E.  $\frac{1}{2}$  of the S. bdy of

## T. 16 S. R. 23 E. - Continued

Chains

sec. 31, exactly 40 chs,  
I set at this point a  
Sand Stone  $18 \times 12 \times 8$  ins.,  
12 ins. in the ground for  
 $\frac{1}{4}$  sec. cor., marked  
 $\frac{1}{4}$  on N. face; and raise  
a mound of stone 2 ft  
base  $1\frac{1}{2}$  ft. high, N. of cor.

45.83 Pts. impracticable  
Dry wash, 20 lbs. wide, course N.E.

48.13 Dry wash, 18 lbs. wide, course N.E.

50.93 Dry wash, 15 lbs. wide, course N.E.

54.03 Dry wash, 20 lbs. wide, course N.E.

60.43 Set a granite stone  $18 \times 10 \times 8$   
ins., 12 ins. in the ground  
for cor. of secs. 5, 6, 31 and 32,  
marked

T. 16 S. on N. E.,

R. 23 E. on S. E., and

T. 17 S. on S. W. faces;



South boundary of  
Chains  
with 5 notches on E. and  
1 notch on W. edges; and  
raise a mound of stone  
2 ft. base,  $1\frac{1}{2}$  ft. high,  
W. of cor. Pits impracticable  
An oak, 20 ins. diam.  
bears  $N 55^{\circ} E$ , 357 lbs. dist;  
marked T. 16 S. R. 23. E.  
S. 32. B. T.

Land rolling  
Soil, hard and stony; 3<sup>d</sup> rate  
Timber, scattering oak.

$S 90^{\circ} 56' E$ , on a true line  
bet. secs. 5 and 32.

Over mountainous land

4.00 Descend

4.90 Bottom, bears N. and S.

5.00 Dry wash, 20 lbs. wide, course  $N 40^{\circ} W$

## T. 16 S. R. 23 E. - Continued

Chains	
5.10	Ascend
6.00	Top, bears N. and S.
9.00	Descend
9.40	Enter bottom, bears N. & S.
9.50	Dry wash, 20 lks. wide, course N.
9.90	Ascend
10.30	Top of ridge, bears N. & S.
21.00	Descend
28.50	Bottom, bears N.W. and S.E.
28.70	Wash, 20 lks. wide, course N.W.
29.00	Ascend
37.00	Top of ridge, bears N. & S.
39.00	Descend
40.00	Falls on a granite bluff, 20 x 13 x 3 ft. above ground, on which I cut a cross (x) at the exact corner point, for 1/4 sec. cor., marked 1/4 on

South boundary of  
Chains

N side of cross, and raise  
a mound of stone, 2 ft.  
base,  $1\frac{1}{2}$  ft. high, N. of cor.

Pits impracticable

A cabin bears  $N 52^{\circ} E$  12 chs.  
distant.

A corral bears  $N 33^{\circ} E$  8 chs.  
distant

- 44.30 Bottom of ridge  
45.00 Dry wash, 8 lks. wide, course N.  
49.70 Trail, bears N. and S.  
51.22 Dry wash 15 lks. wide, course N.  
51.75 Trail, bears N. E. and S. W.  
52.00 Dry wash, 10 lks. wide, course N.  
52.75 Trail, bears N. and S.  
57.10 Trail, bears N. and S.  
57.30 Dry wash, 30 lks. wide, course N.  
57.48 Ascend  
78.90 Top of ridge, bears N. and S.



## T. 16 S. R. 23 E. - Continued

Chains

and descend

80.00 Falls on a granite bluff  
70 x 50 x 50 ft. above ground  
on which

I cut a cross (x) at the  
exact corner point, for  
cor. of secs. 4, 5, 32 and 33,  
marked

T. 16 S. on N.E.,  
R. 23 E. on S.E., and  
T. 17 S. on S.W. sides;  
with 4 notches on E.  
and 2 notches on W. sides;  
from which

An oak 5 ins. diam. bears  
N 26 $\frac{1}{2}$ ° E. - 50 lks. dist. marked  
T. 16 S. R. 23 E. S. 33. B. T.

An oak 12 ins. diam.; bears  
S 54 $\frac{1}{4}$ ° E. 60 lks. dist. marked

South boundary of

T. 17 S. R. 23 E. S. 4 B. T.

An oak 6 ins. diam, bears  
S 24 1/2° W, 199 lks. dist, marked

T. 17 S. R. 23 E. S. 5. B. T.

An oak 5 ins. diam, bears  
N 49° W, 50 lks. dist, marked

T. 16 S. R. 23 E. S. 3 1/2. B. T.

to impracticable  
Land mountainous

Soil, rocky, 4<sup>th</sup> rate  
Timber, scattering cedar  
and oak.

Mountainous land 80chs.

January 2. 1896.

At this cor. I discontinue  
an account of high mountains.

T. 17 S. R. 23 E. is rough  
and mountainous, therefore  
unavailable for agriculture.

T. 16 S. R. 23 E. - Concluded

Boundaries of T16 S.R. 23 E

Latitudes, departures <sup>and</sup> closing errors

Line designated	True bearing	Dist.	Latitudes		Departures	
			N.	S.	E.	W.
S. bdy. Sec. 36	N <sup>89</sup> °56'W	80.00	.09			80.00
W. bdy. Sec. 36	N <sup>0</sup> °4'W	80.05	80.05			0.09
W. bdy. Sec. 25	N <sup>0</sup> °1'W	80.00	80.00			0.02
W. bdy. Sec. 24	N <sup>0</sup> °1'W	80.00	80.00			0.02
S. bdy. Sec. 14	N <sup>89</sup> °50'W	80.00	.23			80.00
E. bdy. Sec. 22	S <sup>0</sup> °1'E	80.00		80.00	0.02	
S. bdy. Sec. 22	N <sup>89</sup> °41'W	80.08	.30			80.08
W. bdy. Sec. 28	S <sup>0</sup> °2'E	80.00		80.00	0.05	
S. bdy. Sec. 28	N <sup>89</sup> °48'W	80.08	.28			80.08
E. bdy. Sec. 32	South	80.57		80.57		
S. bdy. Sec. 32	N <sup>89</sup> °56'W	80.00	.09			80.00
S. bdy. Sec. 31	N <sup>89</sup> °56'W	60.43	.07			60.43
West bdy.	N <sup>0</sup> °10'E	480.42	480.42		1.40	
S. boundaries of Secs 31 & 32	S <sup>89</sup> °50'E	148.76		.44	148.76	
S. bdy. Sec. 33	S <sup>89</sup> °30'E	78.27		.70	78.27	
S. bdy. Sec. 34	S <sup>89</sup> °41'E	78.83		.44	78.83	
S. bdy. Sec. 35	S <sup>89</sup> °45'E	79.85		.35	79.85	
S. bdy. Sec. 36	S <sup>89</sup> °40'E	73.78		.41	73.78	
East bdy.	South	478.30		478.30		
Convergency						0.46
Totals			721.53	721.21	461.42	460.72
			721.21		460.72	
Error in lat.			.32 Error in dep 70			



Note: In the execution of  
the survey of the fore-  
going exterior I destroyed  
all corners set by U. S.  
Deputy Surveyor A. L.  
Trippel, in compliance  
with my instructions  
dated September 23. 1895  
Philip Contzen  
Compassman

U. S. Surveyor-General's Office

Tucson, A. T. Jan. 22nd, 1897.

The foregoing field notes of the Survey of the Auxiliary Base Line, through Tps 23 and 24 E., E. Bdy. of 16 S., R. 23 E. and the S. Bdy. of Tps. 16 S., Rs. 23 and 24 E., Gila and Salt River Meridian in Arizona, executed by Philip Contzen Compassman, and U. S. Deputy Surveyor, under his Contract No. 29 with A. L. Trippel, dated June 17th, 1895, having been critically examined, the necessary corrections and explanations made, the said field notes and the surveys they describe are hereby approved.

*George H. Roskruge*  
U. S. Surveyor-General.

For the Territory of Arizona.