

1519

1519

BOOK 1519

South and West  
Boundaries

T. 21 S. R. 7 E.  
Conzert

4-671 No. 55.

BOOK 1519

FIELD NOTES  
GENERAL LAND OFFICE.

1519

Field Notes  
of the survey of the  
South and West Boundaries  
of  
Township N<sup>o</sup> 21 S. Range No 7 East  
of the  
Gila and Salt River Basins Meridian  
in the  
Territory of Arizona  
as surveyed by  
Philip Coutzen  
U. S. Deputy Surveyor  
Under his Contract N<sup>o</sup> 55  
Dated June 23<sup>rd</sup> 1899.

Survey commenced Oct 8<sup>th</sup> 1899.  
Survey completed Oct 12<sup>th</sup> 1899.

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— 4<sup>th</sup> Stand. Part 1 S.

1 36 6

+

12 33 7

+

13 30 18

21-4

+

T. 21 S, R. 7 E.

24 28 19

+

25 26 30

+

36 23 31 32 33 34 35 36

L 20 + 17 + 15 + 13 + 10 + 8 +

6 5 4 3 2 1

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## South Boundary of T. 21. S.

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Survey commenced Oct. 8, 1899 and executed with a Young and Sons light mountain Transit No. 5609 with a Smiths solar attachment.

The instrument was examined, tested on the true meridian at Tucson and found correct and was approved by the surveyor general for Arizona, Oct 6, 1899. In order to test the solar apparatus, by comparing the results of observations on the sun, made during am. and p.m. hours, with a true meridian, determined by observations on Polaris, I proceed as follows:  
At Cor. to Tps. 21 and 22. S. Rs. 7 and 8. E. which is a

R. Y. E. continued

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Granite stone 5x10x6 ins. above ground marked and witnessed as described by the surveyor general.

at 3.30 p.m. local mean time, I set off  $31^{\circ}34'$  on the latitude arc;  $6^{\circ}4'S$  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. N. of the instrument.

Oct. 8, 1899.

Oct 9, 1899, at 5<sup>h</sup> 00<sup>m</sup> a.m. local mean time I observe Polaris at western elongation, in accordance with instructions in the manual, and mark the line thus estab-

## South Boundary of T. 21. S.

lished, by a tack driven in a wooden plug set in the ground, 5 chains north of my station.

At 7 am, I lay off the azimuth of Polaris,  $1^{\circ} 27'$ , 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 9.30 am, I set off  $31^{\circ} 34'$  on the lat. arc;  $6^{\circ} 22' S.$  on the decl. arc, and mark the true meridian determined with the solar, by a cross on the 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 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  $12^{\circ} 37' W.$ ; the angle thus determined, reduced by the table, page 100, gives the mean mag. decl.  $12^{\circ} 35'$  East. From the



## South Boundary of T. 21. S.

chains.

- Township cor. above described I run West, on a true line bet. secs. 36 and 1, ascending gradually,
- 29.25 Dry wash, 8 lks. wide, course South Easterly
- 31.00 Dry wash, 8 lks. wide, same; course N. E. ✓
- 36.00 Enter scattering mesquite
- 39.00 Leave scattering mesquite
- 40.00 Set a Granite stone 18 x 12 x 6 ins. 12 ins. in the ground, for  $\frac{1}{4}$  sec. cor. marked  $\frac{1}{4}$  36 on N. face, 1 on S. face; from which a mesquite 6 ins. diam. bears, N  $38\frac{3}{4}^{\circ}$  E. 90 lks. dist. marked  $\frac{1}{4}$  S. 36, B.T. a mesquite 8 ins. diam. bears

R. Y. C.

continued

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chains.

S.  $56\frac{3}{4}^{\circ}$  E. 183 lks, dist, markedS.  $\frac{1}{4}$  S. 1. B. T.

45.05 Dry Wash, 10 lks. wide, course N.

51.00 Gulch 30 lks. wide, course  
N. E., ascend :

55.00 Top of ridge, sloping N. E.

57.00 Gulch 30 lks. wide, course N;  
ascend steep.

60.60 Gulch 6 lks. wide, course N. E.

75.20 Gulch 3 lks. wide, course Northwly

80.00 Set a Granite stone  $20 \times 8 \times 3$  ins.  
15 ins. in the ground, forcor. of secs. 35 and 36.  
marked with 1 notch on  
E. and 5 notches on W. edgesand raise a mound of stone  
 $2\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, N. of cor.

Pits impracticable.

Land rolling and mountainous.

## South Boundary of T. 21, R.

Chains.

Soil, sandy and gravelly; 2<sup>nd</sup>  
and 3<sup>rd</sup> rate.

Timber, scattering mesquite.

Undergrowth, yucca.

Mountainous Land 29,00 chs.

West, bet secs. 35, and 2,  
over mountainous land;  
ascending.

0.50 Top of ascent; Knoll 4. chs.  
S.; descend

4.00 Gulch 10 lks. wide, course  
N. Easterly; ascend

8.00 Top of slope, bears N. and S.;  
descend steep.

12.00 Gulch 10 lks wide, course;  
southerly

17.50 ascend steeper along N. slope.

23.75 Top of ridge, bears N. and S.;  
descend

## R. Y. C. Continued.

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chains	
25.00	Gulch 10 lks. wide Course N. Westerly
38.50	Gulch, 10 lks. wide, Course S. Westerly "same"
40.00	Set a Granite Stone 18x14x8 ins. 13 ins. in the ground for 1/4 sec. cor. Marked 30. 1/4 35. on N. face. 2 on S face. and raise a mound of stone 2 1/2 ft. base, 1 1/2 ft. high, N. of Cor.
46.75	Gulch 10 lks. wide course S. W.
49.00	Descend into Precinido Cañon.
50.50	Creek 20 lks. wide, Course S. Westerly
50.95	Trail, bears N. and S.; leave Cañon and ascend.
58.00	Top of ridge, bears N. and S. descend abruptly.
62.75	Foot of ridge.

## Cauth Boundary of T. 210.

chains.

63.15 Creek 20 lks. wide, Course S.

64.50 ascend

70.00 Top of ridge, bears N<sup>E</sup> and S.W.;  
descend75.00 Gulch 10 lks. wide, Course N.E.,  
ascend80.00 Set a Granite stone 18x12x6 ins.  
13 ins. in the ground for  
Cor. of secs. 2, 3, 34 and 35,  
marked with 2 notches  
on E. and 4 notches on W. edges,  
and raise a mound of stone  
2½ ft. base, 1½ ft. high N. of Cor.  
Land Mountainous.Soil, Gravelly and rocky;  
3<sup>rd</sup> and 4<sup>th</sup> rate.No timber. scattering under-  
growth, mesquite, ocotillo & Yucca.  
Mountainous Land 80. chs.

R. 7, E.

continued

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chains.

West, bet. secs. 34 and 3.  
over mountainous land;  
descending.

2.50 Top of ridge; apex 50 lks. S.  
descend

13.25 Gulch 10 lks. wide, course  
southerly; ascend

18.50 Top of ridge, bears NW. and S.E.;  
ascend NE. slope

23.20 Gulch 40 lks. wide, course;  
southerly; ascend

35.50 Top of Mt.

40.00 Set a Granite stone 18x8x8 ins  
13 ins. in the ground for

$\frac{1}{4}$  sec. cor. marked S.C.

$\frac{1}{4}$  S. 34 on N. face. 3 on S. face  
and raise a mound of stone  
2 $\frac{1}{2}$  ft. base, 1 $\frac{1}{2}$  ft. high, N of cor.  
Pits impracticable

## South Boundary of T. 21. 0.

chains

52.25 Gulch 40 lks wide, Course Southwly;  
ascend

58.50 Top, bears NW, and SEasterly; descend

63.30 Gulch 6 lks, wide, course S.Easterly;  
ascend

71.00 Top of knoll; descend

80.00 Set a Granite stone 20x12x6 ins.

15 ins. in the ground, for  
Cor. of Secs. 33 and 34, markedSE ~~only~~ with 3 notches on E  
and 3 notches on W. edges and

raise a mound of stone, 2½ ft.

base, ½ ft. high, N. of Cor. Pits  
impracticable

Land mountainous,

soil, Gravelly and rocky, 3<sup>rd</sup>  
and 4<sup>th</sup> rate.Timber, a few scattering mes-  
quite; undergrowth, Ocolillo.

R. Y. E. continued

chains.

and Yucca.

Mountainous Land 80 chs.

Oct. 9. 1899

West, bet secs. 33 and 4  
over mountainous land;  
descending.1.50 Gulch 20 lks. wide, Course  
Southerly; ascend9.60 Gulch, 10 lks. wide, Course  
South Easterly

15.30 Top, bears N. and S.; descend

17.00 Gulch, 6 lks. wide, Course Southerly;  
ascend

22.00 Top of ridge, bears N. and S.; descend

34.70 Deep gulch, 10 lks. wide, Course  
South Westerly, foot of descent, &  
ascend.38.50 Gulch 20 lks. wide, Course S. Easterly;  
ascend



## South Boundary of T. 21 D.

chains

40.00

Set a Granite Stone 18x12x6 ins.  
13 ins. in the ground,  
4 sec. cor, marked  $\frac{1}{4}$  33 on  
N. face, 4 on S. face, and raise  
a mound of stone 2½ ft. base,  
1½ ft. high, N. of cor. Pits  
impracticable.

ascend steep mt.

62.00

Top and descend

75.00

foot of descent; and ascend

77.00

Top bears N. and S.; descend

78.80

Ravine, 10 lbs wide, course S

80.00

Set a Granite Stone 18x8x8 ins.  
13 ins. in the ground, for  
Cor. of secs. 32 and 33, marked  
with 4 notches on  
E. edge and 2 notches on W. edge  
and raise a mound of  
stone, 2½ ft. base, 1½ ft. high, N. of

R. T. C. continued.

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chains.

Cor. Pits impracticable.

Land mountainous.

Soil, Gravelly; 3<sup>rd</sup> and 4<sup>th</sup> rate.

Timber, a few scattering oak  
and mesquite.

Undergrowth, Scatillo, Yucca  
and some Giant cacti.

Mountainous Land 80. chs.

West, bet. secs. 32 and 5,  
over mountainous land;  
ascending.

- 0.50 Top of knoll, bears N. and S.; descend
- 16.50 Gulch 50 lks. wide, course N.W.
- 25.10 Gulch 20 lks. wide, course  
N.N.W.; ascend
- 28.00 Top of slope; descend
- 31.80 Gulch 20 lks. wide, course  
S. Westerly; ascend along S.

## South Boundary of T210.

chains.

- slope of ridge.  
 35.00 Top of slope; descend gradually  
 40.00 a Granite Boulder in place  
 10 ft. x 10 ft. 5 ft. above ground on  
 which I cut a + at the exact cor.  
 point, for  $\frac{1}{4}$  sec. Cor.  
 marked  $\frac{1}{4}$  32. on N, and  
 5. on S. face. and raise a  
 mound of stone 2  $\frac{1}{2}$  ft. base  
 1  $\frac{1}{2}$  ft. high, S. of Cor. Rts impracticable.  
 59.50 Gulch 30 lks. wide, Course S.W.  
 ascend  
 64.00 Top of ridge, bears NE. and SW.  
 64.50 descend  
 74.00 Foot of ridge; and ascend along  
 N. slope of ridge  
 80.00 set a Granite Stone 18 x 12 x 7 ins.  
 13 ins. in the ground for  
 cor. of Secs. 32 and 31, marked

## R. 7 E, continued

chains

with 5 notches on  
E, and 1 notch on W. edges;  
from which  
a mesquite 6 ins. diam. bears  
N57½° E. 120 lks. dist. marked  
T. 15. S., R. 7. E., S. 32., B. T. no other  
trees within limits, and raise  
a mound of stone 2½ ft. base  
1½ ft. high, N. of Cor. Pits  
impracticable.

Land mountainous.

Soil Gravelly; 2<sup>nd</sup> and 3<sup>rd</sup> rate.

Timber a few scattering oak  
and mesquite.

Undergrowth, Yucca and  
ocotillo.

Mountainous Land 80 chs.

## South Boundary of T. 21. 2.

chains.

- West, bet. secs 31 and 6.  
over mountainous land;  
ascending
- 2.00 Top of ridge, bears NW. and SE.;  
descend
- 3.00 Foot of ridge
- 31.32 Wash 6 lks. wide, Course S. westerly
- 32.00 Wash 6 lks. wide, Course N. westerly
- 40.00 Set a Granite Stone, 18x10x8 ins.  
15 ins. in the ground, for  
1/4 sec. Cor. marked 1/4 31 on  
N. face, 6. on S. face, from  
which a mesquite 12 ins.  
diam. bears N 11 3/4° E, 148 lks.  
dist. marked 1/4 31  
31, B.T. no other tree within  
limits, and raise a mound  
of stone 2 1/2 ft. base, 1 1/2 ft. high,  
N. of Cor. Pits impracticable

chains.

- 44.72 Gulch 20 lks wide, Course  
S, Westerly; ascend
- 51.22 Top of small ridge, bears N and S
- 55.20 Foot, and enter rolling  
land through dense ocotillo  
and mesquite.
- 78.22 Set a Granite stone 18x10x8 ins.  
13 ins. in the ground, for  
Cor. of Tps. 21 and  
22 S, Rs. 6 and 7, E. marked  
with 6 notches on each edge;  
from which  
a mesquite 12 ins. diam. bears  
N. 8° E, 232 lks, dist. marked  
T. 21, S., R. 7, E., S. 31, B.T.  
a mesquite 12 ins. diam. bears  
S. 85½° E, 175 lks, dist. marked  
T. 22, S., R. 7, E., S. 6, B.T.  
a mesquite 14 ins. diam. bears

## South Boundary of T. 21. S. R. 7. E. continued.

chains

S. 33° W. 78 lks. dist. marked

T. 22. S., R. 6. E., S. 1., B. T.

a mesquite 12 ins. diam. bears

N 22 1/2° W. 96 lks. dist. marked

T. 21. S., R. 6. E., S. 36., B. T. and

raise a mound of stone 2 1/2 ft.

base, 1/2 ft. high, S. of cor. on N.  
side of wash.Land mountainous and rolling.  
soil, gravelly; 2<sup>nd</sup>, 3<sup>rd</sup> and 4<sup>th</sup> rate.  
Timber, mesquite and some  
Palo Verde.

Undergrowth, ocotillo

Mountainous Land and land  
covered with dense undergrowth

78, 22 chs.

Oct. 10. 1899.

## General Description

This line runs over mountainous land; there is some good  
grass along the line. T. 22. S. R. 7. E. is mostly mountainous.  
There is good grass throughout the 1/4, with good water  
in the NW 1/4 of sec. 2.

Philip Coontzen  
U. S. Dep. Surveyor

## West Boundary of T. 21. S. R. 7. E.

chains.

Oct. 11. at 7.10 a.m. l.m.t. I set off  $31^{\circ}34'$  on the lat. arc;  $^{\circ} 5'$  on the decl. arc; and determine a true meridian with the solar, at the Cor. of Tps. 21 and 22 S. R. 7 and 6, E. which is a Granite stone,  $5 \times 10 \times 8$  ins. above ground, marked and witnessed as heretofore described by me.

Thence I run

North, bet. Secs. 31 and 36, over rolling land, through mesquite.

6.00 Dry wash, 8 lks. wide, course westerly.

13.00 Leave mesquite

30.40 Dry wash 6 lks. wide, course westerly



## West Boundary of T. 21, S.

chains.	
40.00	Set a Granite Stone, 18x8x8 ins. 13 ins. in the ground, for $\frac{1}{4}$ sec. Cor. marked, 14 36 on W. face 31 on E. face; dig pits 18x18x12 ins. N. and S. of Cor. 3 ft. dist. and raise a mound of earth $3\frac{1}{2}$ ft. base $1\frac{1}{2}$ ft. high, W. of Cor.
51.80	Wash 8 lks wide, course Westwardly
53.20	Wash 6 lks wide, course Westwardly
59.20	Wash 6 lks wide, course Westwardly
63.10	Wash 6 lks wide, course W.
72.70	Wash 6 lks wide, course W.
80.00	Set a Granite Stone 18x12x8 ins. 13 inches in the ground, for Cor. of secs. 25, 30, 31 and 36, marked with 5 notches on N. and 1 notch on S. edges, from which a scrub mesquite 4 ins. diam. bears N $17\frac{1}{4}$ E., 73 lks.

R. 7 E. continued

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dist. marked T. 21 S., R. 7 E.,

S. 30, B.T.

a scrub Mesquite 4 ins. diam,  
bears S. 44° E. 89 lks. dist.

marked T. 21 S., R. 7 E., S. 36, B.T.

a scrub mesquite 4 ins. diam,  
bears S. 20° W. 57 lks. dist. marked  
T. 21 S., R. 6 E., S. 31, B.T.

a *Tesota* 4 ins diam, bears  
N 40° W. 89 lks. dist. marked,  
T. 21 S., R. 6 E., S. 25, B.T. and raise  
a mound of stone 2½ ft. base  
1½ ft. high. W. of Cor.

Land, gently rolling.

soil, sandy and gravelly;  
2<sup>nd</sup> rate.

Timber, some mesquite  
Undergrowth, cholla and Ocotillo

## West Boundary of T. 21, R.

chains.

- North, bet. secs. 25 and 30.  
over ralling land.
- 8.10 Dry wash 10 lks. wide, Course Westerly.
- 15.25 Dry wash, 6 lks. wide, Course Westerly.
- 38.50 Dry wash, 4 lks. wide, course  
Westerly.
- 40.00 Set a Granite Stone 18x8x8 ins.  
13 ins. in the ground, for  $\frac{1}{4}$  sec.  
Cor. marked  $\frac{1}{4}$  25 on W. face  
30. on E face. from which  
A scrub Mesquite 8 ins. diam,  
bears N  $19\frac{1}{2}^{\circ}$  W. 132 lks. dist.  
marked,  $\frac{1}{4}$  S 25, BT.
- A scrub Mesquite 4 ins. diam,  
bears S  $24\frac{1}{2}^{\circ}$  E. 30 lks. dist.  
marked,  $\frac{1}{4}$  S 30, BT.
- 50.00 Draw 10 lks. wide, course N. Westerly  
enter dense paloverde and un-  
dergrowth.

## R. 7 E. Continued

chains	
51.20	Wash, 6 lks. wide, course North- westerly
54.30	Wash, 30 lks. wide, course N. Westerly
63.20	Wash 10 lks. wide, course N. Westerly
72.50	Draw, 4 lks. wide, course Westerly
79.05	Dry wash 6 lks. wide, course Westerly
80.00	Set a Granite Stone 18 x 10 x 4 ins. 13 ins. in the ground for Cor. of Secs. 19, 24, 25 and 30, marked with 2 matches on S. and 4 matches on N. edges, from which a Palo Verde 10 ins. diam, bears N 46 $\frac{1}{2}$ ° E., 11 lks. dist. marked T, 21, S., R. 7 E. S. 19, B.T. A Palo Verde 6 ins. diam. bears S. 10° E., 21 lks. dist. marked T, 21, S., R. 7 E., S. 30, B.T. A Palo Verde 10 ins. diam, bears

## West Boundary of T. 21. 0.

chains.

S. 28° W, 65 lks. dist. marked

T. 21 S., R. 6 E., S. 25, B.T.

a Palo Verde 5 ins. diam. bears

N 86° W, 36 lks. dist. marked

T. 21 S., R. 6 E., S. 24, B.T.

Land rolling.

Soil, gravelly; 2<sup>nd</sup> and 3<sup>rd</sup> rate.Timber, some mesquite, Palo-  
Verde and Iron wood

Undergrowth, Palo verde, ocotillo &amp; cholla

Land Covered with dense undergrowth  
30, Chs.

North, bet. secs. 19 and 24.

through dense ocotillo and palo-  
verde undergrowth.15.40 Dry wash 10 lks. wide, course  
Westerly.

28.30 Draw 20 lks. wide, course S. Easterly.

## R. 7 E. Continued

- |                  |   |
|------------------|---|
| chains,<br>40.00 | Set a Granite Stone 18x10x6 ins.<br>13 ins. in the ground, for $\frac{1}{4}$ sec.<br>Cor. marked $\frac{1}{4}$ 24. on W. face,<br>19 on E. face; and raise a<br>mound of stone 2 $\frac{1}{2}$ ft. base,<br>1 $\frac{1}{2}$ ft. high W. of cor. Pits<br>impracticable |
| 52.00            | House of Papago Indian, bears<br>W. 6. chs.   |
| 58.50            | Trail, bears NE and SW, leading<br>to well.   |
| 63.00            | Cañon 40. lks. wide, Course<br>Westerly; ascend   |
| 74.00            | Top of ridge, bears E. & W.; descend  |
| 80.00            | Set a Granite Stone 18x8x8 ins.<br>13 ins. in the ground for cor.<br>of secs. 13, 18, 19 and 24.<br>marked with 3 notches on<br>N. and S. edges; and raise  |

## West Boundary of T. 21. 2.

chain.

a mound of stone 2½ ft. base,  
1½ ft. high W. of Cor. Rits  
impracticable.

Land mountainous and rolling  
Soil, gravelly; 3<sup>rd</sup> rate.

Timber, Palo Verde  
undergrowth, Palo Verde, ocotillo,  
and Giant Cactus

Mountainous Land and dense  
undergrowth 80. chs.

North, bet. sect. 13 and 18  
over mountainous land;  
ascending.

7.50 Top of ridge, bears E and W;  
descend

20.80 Dry wash, 10 lbs. wide, Course N.

22.60 Leave wash 20 lbs. wide, Course  
N. westerly; and ascend

## R. Y. C. continued

chains.	
26.70	Dry Wash 20 lks. wide, Course Northerly; ascend
28.00	Ventana Hill, bears W. $1\frac{1}{2}$ mile.
33.00	Enter Gulch, course S, Westerly
36.50	Leave Gulch; and ascend
40.00	A Granite stone, in place 24 x 24 ins. 10 ins. above ground, on which I cut a + at the exact Cor. point, for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ 13, on W. face, 18. on E. face; and raise a mound of stone 2 $\frac{1}{2}$ ft. base $1\frac{1}{2}$ ft. high W. of cor. Pits impracticable.
50.00	Top of ridge, bears N.E. and S.W.; descend
57.70	Gulch 6 lks. wide, Course Westerly; ascend.
62.50	Top of ridge, bears E. & W.; descend



## West Boundary of T. 21, R. 6, S. 13

chains

64.20 Gulch 20 lks wide, course

Westerly; ascend

75.00 Peak 4 chs. E; descend gradually.

80.00 Set a Granite Stone 18x12x6 ins.  
13 ins. in the ground for Cor. of  
secs. 7, 12, 13 and 18, marked  
with 2 notches on N. and 4  
notches on S. edges. from  
which

a scrub Mesquite 4 ins. diam.  
bears S  $84\frac{1}{4}^{\circ}$  W, 165 lks, dist.

marked T. 21, S. R. 6, E., S. 13, B.T.

No other trees within limits.

and raise a mound of stone  
2½ ft. base, 1½ ft. high, W. of Cor.  
Pits impracticable.

Land, Mountainous

sail, gravelly and rocky, 3<sup>rd</sup> and  
4<sup>th</sup> rate.

R. Y. E. continued

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chains.

Timber, scrub mesquite  
and Palo Verde.

Undergrowth, ocotillo and  
Giant Cacti.

Mountainous Land, 80 chs.

Oct. 11, 1899.

North, bet. secs. 7 and 12,  
over mountainous land,  
descending.

9.00 Indian Hut, about 2 chs. West.

9.50 S. edge of gulch, course Westerly

11.75 N. edge of gulch,

13.00 Indian Hut, 2 chs. E.

13.50 Indian Hut, 4 chs. E.

14.00 Road bears NE, and SW.

14.50 Corral, 3 chs. E, "Ramon Cachon's"

15.00 Indian Hut 1½ chs. E,

20.00 Gulch 30 lks wide, course  
S. Westerly; ascend

## West Boundary of T. 21. 0.

chains.

- 21.50 Trail bears NW. and SE.
- 37.00 Top of ridge; <sup>E and W</sup> descend.
- 40.00 Set a Granite Stone 18x12x10 ins.  
13 ins. in the ground, for  $\frac{1}{4}$  sec.  
Cor. marked  $\frac{1}{4}$  7. on <sup>E</sup> W. face  
12. on <sup>W</sup> E. face, and raise a  
mound of stone 2 $\frac{1}{2}$  ft. base,  
 $\frac{1}{2}$  ft. high, W. of cor. Pits  
impracticable.
- 45.50 Gulch 20 lks. wide, course  
westerly; ascend.
- 51.50 Top of ridge, bears E and W;  
descend
- 55.60 Gulch 6 lks. wide, course westerly;  
ascend along W. slope of mt.
- 69.00 Top; descend
- 75.00 Foot of descent
- 78.60 Dry Wash 60 lks. wide, course NW.
- 80.00 Set a Granite Stone 18x12x8 ins.

chains

13 ins in the ground for Cor.  
of secs. 1, 6, 7 and 12, marked  
with 1 notch on N, and 5 notches  
on S. edges; from which  
a Palo Verde 6 ins diam. bears  
N, 33° E, 98 lks, dist. marked  
T. 21 S., R. 7 E., S. 6., B. T.

A mesquite 10 ins. diam. bears  
S. 44° E, 133 lks, dist. marked  
T. 21 S., R. 7 E., S. 7., B. T.

A Mesquite 12 ins. diam. bears  
S. 59° W. 67 lks, dist. marked  
T. 21 S., R. 6 E., S. 12., B. T.

A mesquite 6 ins. diam. bears  
N. 17° W. 110½ lks, dist. marked  
T. 21 S., R. 6 E., S. 1., B. T. and raise  
a mound of stone 2½ ft. base  
1½ ft. high, W. of Cor. Pits im-  
practicable.

## West Boundary of T.210.

chain.

Land Mountainous,  
 Timber, a few scrub Mes-  
 quite and Palo Verde.  
 Soil,  
 undergrowth, Ocotillo, and  
 Giant Cacti.  
 Mountainous Land 80 chs.

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North, bet secs. 1 and 6,  
 over mountainous land

- 10.30 Gulch 20 chs wide, Course  
 Westerly; ascend
- 19.80 Top of knoll; descend
- 24.80 Gulch 6 chs wide, course Westerly;  
 ascend
- 29.50 Top of ridge, <sup>end of</sup> descend
- 37.10 Gulch 4 chs wide, course Westerly;  
 ascend.
- 40.00 Set a Granite Stone, 18x12x6 ins.

chains.

13 ins. in the ground for  $\frac{1}{4}$  sec.  
 Cor. marked  $\frac{1}{4}$  1. on W. face  
 6. on E. face; and raise a  
 mound of stone  $2\frac{1}{2}$  ft. base  
 $1\frac{1}{2}$  ft high, W. of cor. Pits  
 impracticable.

descend

57.15 Gulch 10 lks. wide, course Westerly;  
 ascend

59.00 Top of ridge, bears E. and W.

69.75 Deep gulch, 6 lks. wide, ~~course West~~  
 ascend

77.80 Intersect 4<sup>th</sup> Standard  
 Parallel South, 4.53 chs. E.  
 of Standard Cor. of Secs. 31 and  
 36, which is a Granite Stone  
 $10 \times 30 \times 4$  ins above ground,  
 marked and witnessed as de-  
 scribed by the surveyor General.

West Boundary of T<sub>21</sub> S. R. 7 E. concluded.

Set a Granite Stone 18x8x8 ins.  
13 ins. in the ground, for closing  
cor. of Tps. 21 S. Rs. 6 and 7 E.,  
marked C.C., on S.; with 6  
grooves on S., E., and W. faces;  
and raise a mound of stone  
2½ ft. base, 1½ ft. high, S. of cor.  
Pits impracticable.

Land mountainous

soil, rocky, 4<sup>th</sup> rate, worthless.

Timber, a few scrub. mesquite  
and Palo Verde.

undergrowth, ocotillo, and  
Giant cacti.

Mountainous Land 77.80 chs.

Oct 12, 1899

General Description

This line runs mostly over mountainous land.  
T<sub>21</sub> S. R. 6 E. is level, excepting the E. range of tiers,  
there is some fine grazing and agricultural land  
within said T<sub>21</sub>. The same should be sub-divided.

Boundaries of T. 21, S. R. 7 E.  
 Latitudes, departures and closing errors

Line designated	True bearing	Distance	Latitudes		Departures	
			N	S	E	W
S. by. T. 21 S., R. 7 E.	W.	478.22				478.22
W. by. T. 21 S., R. 7 E.	N.	477.80	477.80			
4 <sup>th</sup> Stand. Par. S.	E.	477.09			477.74	
E. by. T. 21 S., R. 7 E.	S.	477.74		477.74		
Convergence					0.50	
			477.80	477.74	477.69	478.22
			477.74			477.59

Error in Lat. .... 0.06 Error in dep. .... 0.63

Philip Cotton  
 N. S. Dept. Surveyor



U. S. Surveyor-General's Office,  
Tucson, Arizona, Aug. 4, 1900.

The foregoing field notes of the sur-  
vey of *South and West*  
*Boundaries*  
*T. 21 S. R. 7 E*  
of the G. & S. R. B. & M., Arizona,  
executed by

PHILIP CONTZEN, D.S.,

under his contract No. 55, dated June 23,  
1899, having been critically examined,  
and the necessary corrections and ex-  
planations made, the said field notes  
and the surveys they describe are here-  
by approved.

*George Christ*

U. S. Surveyor-General.

*Comm. approved Feb'y 4-1901.*

*Filed Feb'y 9-1901.*