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UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GENERAL LAND OFFICE

BOOK 4814

# FIELD NOTES

of Resurvey of the

Boundary of the San Ignacio de la Canoa Private Land Grant, bet. the

20th and 23rd Mile Corners,

and

a Portion of the South Boundary and Subdivision

of

Township 18 South, Range 13 East.

4314

Of the Gila and Salt River Meridian,

In the State of Arizona

EXECUTED BY

Ty White and Claude F. Warner,

Assistant Cadastral Engineers.

Under special instructions dated August 8, 1942, which provided  
for the surveys included under Group No. 240, bearing the approval of the  
Commissioner of the General Land Office under date of August 20, 1942  
and assignment instructions dated November 23, 1942.

Survey commenced January 14, 1943.

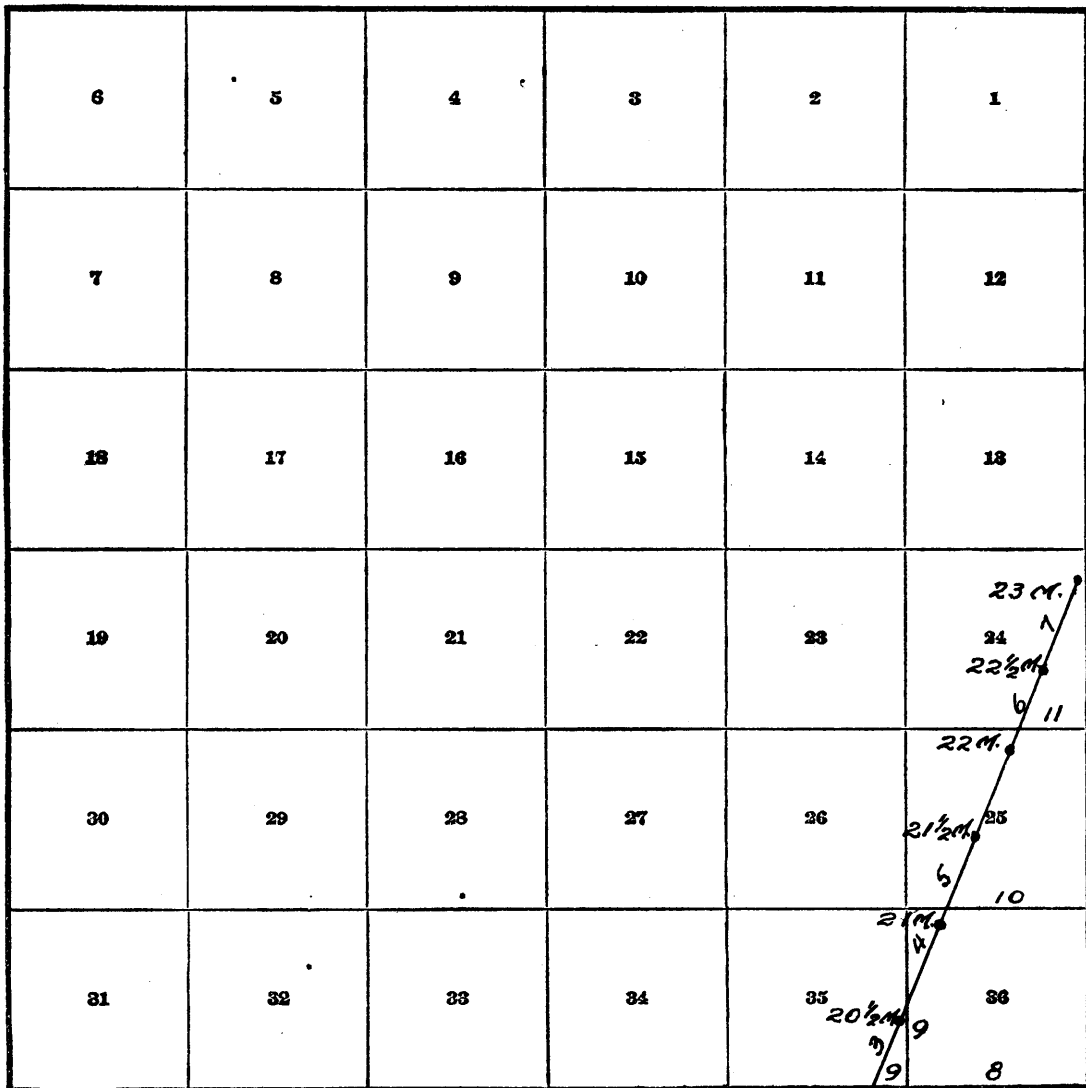
Survey completed January 22, 1943.

10

ECCOX 4314

# INDEX DIAGRAM.

Township 18 SOUTH, Range 13 EAST



20 M.

The resurvey herein described was executed with Buff solar transits Nos. 16724 and 9984, equipped with Smith solar attachments, constructed in accordance with the standard specifications of the General Land Office. The instruments were in good condition and having been placed in satisfactory adjustment prior to the beginning of the resurvey and tested and found free from appreciable error, were approved by the district cadastral engineer, on November 23, 1942.

The directions of the lines were determined by the solar transit method. The measurements were made with Lufkin, and Dietzgen steel tapes, 5 chs. in length, graduated every link for the first 100 links and the balance at intervals of 10 links. The tapes were tested by comparison with a Lufkin standard steel tape and found correct. The measurements were made on the slope and the vertical angles ascertained with a clinometer in good adjustment; the horizontal equivalents are entered in the field note record.

The data furnished with the special instructions give the geographic position of camp in the NE.  $\frac{1}{4}$  of the NE.  $\frac{1}{4}$  of sec. 24, T. 18 S., R. 13 E., G. & S. R. Mer. as follows: latitude  $31^{\circ} 51' N.$ , longitude  $110^{\circ} 58' 00'' W.$

January 14, 1943, at the above station, with Buff solar transit No. 16724, at 3h 40.6m p.m. l.m.t. or 4h 04.5m p.m. by my watch, which reads correct 105th meridional time as determined by radio time signals, make an hour angle observation on Polaris, east of the meridian, making four observations, two each with the telescope in direct and reversed positions, reading the horizontal deflection angles from a telephone pole about 2 miles northerly, in the direction N-E to Polaris.

Mean watch time of observation	4h 04m 30s
Watch fast of l.m.t.	0h 23m 52s
Mean horizontal deflection angle	$0^{\circ} 45' 00''$
Azimuth of Polaris	$0^{\circ} 43' 24''$
Bearing of reference point	N. $0^{\circ} 01' 36'' W.$

January 15, 1943, at the same station, with Buff solar transit No. 16724, make an hour angle observation on Polaris for latitude, making four observations, two each with the telescope in direct and reversed positions, reading the vertical angles to Polaris.

Mean watch time of observation	5h 18m 36s p.m.
Watch fast of l.m.t.	0h 23m 48s
Mean observed vertical angle	$32^{\circ} 49' 54''$
Reduced latitude	$31^{\circ} 51' 15'' N.$

January 17, 1943, on the meridian above described, with Buff solar transits Nos. 16724 and 9984, every 30 minutes from 8 to 10:30 a.m. and from 1:30 to 4 p.m., make the proper settings on the arcs of the solar attachments and ascertain that the resulting orientation of the instruments when compared with the meridian established by Polaris observation, have a maximum error of less than  $1' 30''$ .

We repeat the tests of the arcs daily by noon observations and verify the meridional indications at frequent intervals throughout the survey.

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Preliminary to the resurvey the lines of the original survey are retraced. Identified corners of the original survey are remonumented in their original positions. The retracement data are thoroughly verified and only the true line notes are given here.

Resurvey of a Portion of the E. Bdy. of San Ignacio de la Canoa Private Land Grant.

Reestablishment of a portion of a survey executed by John L. Harris, Deputy Surveyor, in 1880 and resurveyed by Philip Contzen, Deputy Surveyor, in 1900.

From the 20 mile corner on the E. bdy. of the San Ignacio de la Canoa Grant, as evidenced by a granite stone, 30x12 x8 ins., 8 ins. above ground, marked S I D L 20 on W. face.

Set an iron post, 3 ft. long, 2 ins. diam., 28 ins. in the ground, with the orig. cor. stone buried alongside, at the 20 mile corner, with brass cap mkd.

SIC/T18S  
RI3E  
20M/S2  
1943

Original bearing trees  
A mesquite, 6 ins. diam., bears N. 8° W., 33 lks. dist., marked S I D L C 20 M B T.

New bearing trees:  
A mesquite, 3 ins. diam., bears N 8 1/2° E., 55 lks. dist., marked B T.

A mesquite, 4 ins. diam., bears S. 13° E., 120 lks. dist., marked 20 M S I C B T.  
N. 22° 56° E., on 21st mile.

Over rolling land, through scattering timber and undergrowth, along a 5 strand barbed wire fence.

2.21 The closing corner of secs. 2 and 35, Ts. 18 and 19 S., R. 13 E., as evidenced by a sandstone, 18x10x8 ins., 9 ins. above ground, marked 60 on E. face and S I C on W. face.

Set an iron post, 3 ft. long, 2 ins. diam., 28 ins. in the ground, with the original cor. stone buried alongside, at the closing corner of secs. 2 and 35, Ts. 18 and 19 S., R. 13 E., with brass cap mkd.

T18S  
RI3E  
S35  
SIC C C  
S2  
T19S  
1943

from which

Resurvey of a Portion of the E. Bdy. of San Ignacio de la  
Canoa Private Land Grant.

Chains	<p>Original bearing tree:</p> <p>A mesquite, 6 ins. diam., bears N. <math>64^{\circ}</math> E., 64 lks. dist., markings visible but not legible.</p> <p>New bearing tree:</p> <p>A mesquite, 4 ins. diam., bears S. <math>16 \frac{3}{4}^{\circ}</math> W., 137 lks. dist., marked T 19 S R 13 E S 2 C C B T.</p> <p>A fence cor. bears E., 5 lks. dist., from which fences extend E., northeasterly and southwesterly.</p> <p>Continue over rolling land, through scattering timber and undergrowth, along a 5 strand barbed wire fence.</p> <p>8.90 Broad, flat spur, slopes W.; desc. 28 ft. over a N. slope.</p> <p>17.00 Wash, 15 lks. wide, course NW.; asc. 27 ft. over a gradual SW. slope.</p> <p>30.70 Broad, flat spur, slopes W.; desc. 42 ft. over a N. slope.</p> <p>40.12 The <math>20 \frac{1}{2}</math> mile corner, as evidenced by a sandstone, 28x11x8 ins., 12 ins. above ground, marked S I D L C <math>20 \frac{1}{2}</math> on W. face, with a scattered mound of stone, 3 ft. diam., W. of cor.</p> <p>Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, with the orig. cor. stone buried alongside, at the <math>20 \frac{1}{2}</math> mile corner, with brass cap marked.</p> <div style="text-align: center;"> <table style="margin: auto;"> <tr> <td style="border-right: 1px solid black; padding-right: 5px;">SIC</td> <td style="padding-left: 5px;">T18S</td> </tr> <tr> <td style="border-right: 1px solid black; padding-right: 5px;"><math>20 \frac{1}{2}</math>M</td> <td style="padding-left: 5px;">R13E</td> </tr> <tr> <td style="border-right: 1px solid black; padding-right: 5px;"></td> <td style="padding-left: 5px;">S35</td> </tr> </table> <p>1943</p> </div> <p style="text-align: right;">from which</p> <p>Original bearing tree:</p> <p>A mesquite, 8 ins. diam., bears N. <math>68 \frac{1}{2}^{\circ}</math> W., 88 lks. dist., marked S I D L C <math>20 \frac{1}{2}</math>.</p> <p>No trace of the original SW. bearing tree.</p> <p>New bearing tree:</p> <p>A mesquite, 8 ins. diam., bears S. <math>70^{\circ}</math> E., 31 lks. dist., marked <math>20 \frac{1}{2}</math> M S I C B T.</p> <p>Rebuild the mound of stone, 3 ft. base, 2 ft. high, NW. of cor.</p> <p>Thence</p> <p>N. <math>22^{\circ} 56'</math> E., on 21st mile.</p> <p>Over rolling land, through scattering timber and undergrowth. Continue along a 5 strand barbed wire fence.</p> <p>2.75 Wash, 40 lks. wide, course W.; asc. 14 ft. over a SW. slope.</p> <p>5.03 Fence cor. at the SW. corner of corral, from which fences extend northeasterly, southwesterly and southeasterly. Continue along E. side of fence, through corral.</p> <p>7.73 The closing corner of secs. 35 and 36, as evidenced by a sandstone, 18x11x9 ins., 9 ins. above ground, marked CC on S. and S I C on W. faces.</p> <p>Set an iron post, 3 ft. long, 2 ins. diam., 30 ins. in the ground, with the orig. cor. stone buried alongside, at the closing corner of secs. 35 and 36, T. 18 S., R. 13 E., with brass cap mkd.</p>	SIC	T18S	$20 \frac{1}{2}$ M	R13E		S35
SIC	T18S						
$20 \frac{1}{2}$ M	R13E						
	S35						

Resurvey of a Portion of the E. Bdy. of San Ignacio de la  
Canoa Private Land Grant.

Chains

SIC  
S35 | S36  
T18S | R13E  
C C  
1943

from which

New bearing tree:

A mesquite, 8 ins. diam., bears S.  $29\frac{1}{2}^{\circ}$  E., 83 lks. dist., marked T 18 S R 13 E S 36 C C B T.

A well, with windmill, bears S.  $58\frac{1}{2}^{\circ}$  E., 118 lks. dist.

Raise a mound of stone, 3 ft. base, 2 ft. high, S. of cor..

Continue along fence through corral.

- 9.84 A fence corner, at the NW. corner of corral, from which fences extend easterly, southwesterly, and northeasterly. Thence along a 5 strand barbed wire fence; desc. 15 ft. over a N. slope.
- 16.25 Wash, 30 lks. wide, course NW.; asc. 44 ft. over a SW. slope.
- 35.45 Broad spur, slopes W.; desc. 78 ft. over a N. slope.
- 40.14 The 21 mile corner falls in bottom of a wash, 15 lks. wide, course NW.

Land, rolling.

Soil, rocky and gravelly, 4th rate.

Timber, mesquite, paloverde and ironwood; undergrowth, catsclaw and cactus.

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N.  $22^{\circ} 56'$  E., on 22nd mile.

Over rolling land, through scattering timber and undergrowth; asc. 15 ft. over a gradual SW. slope.

- 1.00 The witness 21 mile corner, as evidenced by a granite stone, 30x14x10 ins., 8 ins. above ground, marked S I D L C 21 on W. face, and W C on top.

Set an iron post, 3 ft. long, 2 ins. diam., 28 ins. in the ground, with the orig. cor. stone buried alongside, at witness 21 mile corner, with brass cap marked

SIC / T18S  
21M / R13E  
W C / S36  
1943

from which

Original bearing trees:

A paloverde, 7 ins. diam., bears N.  $49\frac{1}{2}^{\circ}$  E., 74 lks. dist., mkd. WC S I D L C B T.

A mesquite, 10 ins. diam., bears S.  $36^{\circ}$  W., 25 $\frac{1}{2}$  lks. dist., mkd. WC S I D L C B T.

A mesquite, 6 ins. diam., bears N.  $73^{\circ}$  W., 59 lks. dist., mkd. WC S I D L C B T.

Raise mound of stone, 3 ft. base, 2 ft. high, W. of cor..

Continue over rolling land, along a barbed wire fence; asc. 22 ft. over a SW. slope.

Resurvey of a Portion of the E. Bdy. of San Ignacio de la  
Canoa Private Land Grant.

## Chains

8.83

The closing corner of secs. 25 and 36, as evidenced by a sandstone, 18x4x4 ins., 12 ins. above ground, marked CC on E. and S I C on W. faces, witnessed by a scattered mound of stone E. of cor.

Set an iron post, 3 ft. long, 2 ins. diam., 12 ins. in the ground, to bedrock, with the orig. cor. stone buried alongside, and in a mound of stone to top, at the closing cor. of secs. 25 and 36, T. 18 S., R. 13 E., with brass cap mkd.

T18S	
S25	
SIC	CC
S36	
R13E	

1943

rebuild mound of

stone, 3-ft. base, 2½ ft. high, E. of cor.

Descend 22 ft. over a NE. slope.

20.20

Wash, 70 lks. wide, course southwesterly for 6 chs., then northwesterly; asc. 33 ft. over a SW. slope.

23.15

Enter top of broad spur, ascend gradually over a SW. slope.

40.16

The 21½ mile corner, as evidenced by a granite stone, 27x15x10 ins., 8 ins. above ground, marked S I D L C 21½ on W. face.

Set an iron post, 3 ft. long, 1 in. diam., 25 ins. in the ground to bedrock, with the orig. cor. stone buried alongside, and in a mound of stone to top, at the 21½ mile corner, with brass cap mkd.

SIC	T18S
.21½M	R13E
	S25

1943

from which

Original bearing tree:

A mesquite, 4 ins. diam., bears S. 42¼° E., 105 lks. dist., marked S I D L C 21½ M B T.

New bearing tree:

A mesquite, 5 ins. diam., bears N. 57½° W., 30 lks. dist., marked S I C 21½ B T.

Thence

N. 22° 56' E., on 22nd mile.

Over top of broad spur, along a barbed wire fence; asc. gradual SW. slope.

5.25

Top of spur, slopes NW.; desc. 51 ft. over a NE. slope.

16.35

Wash, 30 lks. wide, course NW.; asc. 47 ft. over a SW. slope.

35.25

Top of broad spur, slopes NW.; desc. 7 ft. over a gentle NE. slope.

40.23

The 22 mile corner, as evidenced by a granite stone, 28x12x12 ins., 10 ins. above ground, marked S I D L C 22 on W.

Resurvey of a Portion of the E. Bdy. of San Ignacio de la Canoa Private Land Grant.

Chains

face, witnessed by a mound of stone, W. of corner.

Set an iron post, 3 ft. long, 2 ins. diam., 18 ins. in the ground to bedrock, with the orig. cor. stone buried alongside, and in a mound of stone to top, at 22 mile corner, with brass cap mkd.

T18S  
SIC R13E  
22M S25  
1943

rebuild mound of stone, 3 ft. base, 2 ft. high, NW. of cor.

Land, rolling.  
Soil, gravelly, 3rd rate; rocky, 4th rate.  
Timber, paloverde and mesquite; undergrowth, catsclaw and rabbit brush.

N. 22° 56' E., on 23rd mile.

Over rolling land, through scattering timber and undergrowth, along a barbed wire fence; desc. 10 ft. over a NE. slope.

2:60 Wash, 10 lks. wide, course NW.; asc. 26 ft. over a SW. slope.

11:15 Top of broad spur, slopes NW.; desc. gradually.

13:17 The closing corner of secs. 24 and 25, as evidenced by a granite stone, 18x8x6 ins., 6 ins. above ground, marked CC on E. and SIC on W. faces, with a scattered mound of stone N. of cor.

Set an iron post, 3 ft. long, 2 ins. diam., 28 ins. in the ground, with the orig. cor. stone buried alongside, at closing corner of secs. 24 and 25, with brass cap mkd.

T18S  
S24  
SIC CC  
S25  
R13E  
1943

rebuild mound of stone, 3 ft. base, 2 ft. high, E. of cor.

Continue over rolling land, along a barbed wire fence; desc. 35 ft. over a NW. slope.

26:90 Wash, 60 lks. wide, course southwesterly for 6 chs., then northwesterly; asc. 35 ft. over a S. slope.

33:06 A fence corner, from which fences extend northwesterly, southeasterly and S. 22° 56' W.

33:56 Center of graded road, bears NW. to Continental and SE. to Forest Service Experimental Station.

34:44 A barbed wire fence, bears northwesterly and southeasterly; thence along a barbed wire fence.

40:26 The 22 1/2 mile corner, as evidenced by a granite stone, 26x14x10 ins., 8 ins. above ground, marked S I D L C 22 1/2 on W. face.

Set an iron post, 3 ft. long, 1 in. diam., 28 ins. in the ground, with the orig. cor. stone buried alongside, at



Resurvey of a Portion of the E. Bdy. of San Ignacio de la  
Canoa Private Land Grant.

Chains 22½ mile corner, with brass cap mkd.

SIC / T18S  
22½M / R13E  
S24  
1943

from which

Original bearing tree:

A mesquite, 7 ins. diam., bears N.  $74\frac{1}{4}^{\circ}$  W., 37 lks.  
dist., marked S I D L C 22½ M B T.

New bearing tree:

A mesquite, 8 ins. diam., bears N.  $54\frac{1}{4}^{\circ}$  E., 178 lks.  
dist., marked S I C 22½ M B T.

Raise a mound of stone, 3 ft. base, 2 ft. high, NW.  
of cor.

Thence

N.  $22^{\circ} 56'$  E., on 23rd mile.

Over rolling land, through scattering timber and under-  
growth; along a barbed wire fence; desc. 18 ft. over a  
NW. slope.

- 1.75 Wash, 10 lks. wide, course SW. for 2 chs., then NW.; asc.  
22 ft. over a SW. slope.
- 3.00 Spur, slopes NW.; desc. 35 ft. over a NE. slope.
- 9.40 Wash, 25 lks. wide, course NW.; asc. 30 ft. over a SW.  
slope.
- 18.80 Top of ascent, on a broad spur, slopes NW.; desc. 33 ft.  
over a NE. slope.
- 26.75 Wash, 15 lks. wide, course NW.; asc. 26 ft. over a SW.  
slope.
- 35.25 Top of broad spur, slopes NW.; desc. 20 ft. over a NE.  
slope.
- 39.25 Ravine, course NW.; asc. 9 ft. over a SW. slope.
- 40.24 The 23 mile corner, as evidenced by a granite stone, 24x8  
x7 ins., 10 ins. above ground, marked S I D L C 23 on W.  
face.

Set an iron post, 3 ft. long, 2 ins. diam., 28 ins. in the  
ground, with the orig. cor. stone buried alongside, at the  
23 mile corner, with brass cap mkd.

SIC / T18S  
23M / R13E  
S 24  
1943

from which

Original bearing trees:

A mesquite, 12 ins. diam., bears N.  $19^{\circ}$  E., 89 lks.  
dist., marked S I D L C 23 M B T.

A mesquite, 12 ins. diam., bears N.  $60^{\circ}$  E., 101 lks.  
dist., marked S I D L C 23 M B T.

A paloverde, 10 ins. diam., bears S.  $38^{\circ}$  E., 92 lks.  
dist., marked S I D L C 23 M B T.

A paloverde, 7 ins. diam., bears N.  $64^{\circ}$  W., 56 lks.  
dist., marked S I D L C 23 M B T.

Raise mound of stone, 3 ft. base, 2 ft. high, NW. of cor.

Land, rolling. Soil, gravelly, 3rd rate; rocky, 4th rate.  
Timber, mesquite, ironwood and paloverde; undergrowth,  
catsclaw and cactus.

Resurvey of a Portion of the S. Bdy. of T. 18 S., R. 13 E.

Chains

Reestablishment of a survey executed by T. F. White, Deputy Surveyor, in 1873 and resurveyed by Philip Contzen, Deputy Surveyor, in 1902.

From the corner of Ts. 18 and 19 S., Rs. 13 and 14 E., as evidenced by an iron post, 3 ins. diam., set, marked and witnessed as described in the official record.

S. 89° 04' W., bet: secs. 1 and 36.

Over rolling land, through scattering timber and undergrowth; desc. 7 ft. over a gradual SW. slope.

9.15 Wash, 40 lks. wide, course N. 60° W.; asc. 21 ft. over a gradual NE. slope.

13.13 A fence cor. bears S., 27 lks. dist., from which fences extend westerly and southeasterly.

29.25 Broad spur, slopes NW.; desc. 24 ft. over a gradual SW. slope.

40.00 Thence along fence, bears easterly and westerly.

40.33 The 1/4 sec. cor., as evidenced by a granite stone, 18x8x6 ins., 6 ins. above ground, marked 1/4 36 on N. and 1 on S. faces, with a scattered mound of stone around cor. stone.

Set an iron post, 3 ft. long, 1 in. diam., 27 ins. in the ground, with the orig. cor. stone buried alongside, at 1/4 sec. cor., with brass cap mkd.

1/4 S36 / S1

1943

raise a mound of stone, 3 ft. base, 2 ft. high, N. of corner.

Thence

S. 89° 56' W., bet. secs. 1 and 36.

Over open rolling land, along a fence.

39.97 The corner of secs. 1, 2, 35, and 36, as evidenced by a granite stone, 18x10x6 ins., 5 ins. above ground, marked with 5 grooves on W. and 1 groove on E. faces.

Set an iron post, 3 ft. long, 2 ins. diam., 20 ins. in the ground, to bedrock, with the orig. cor. stone buried alongside, and in a mound of stone to top, at the cor. of secs. 1, 2, 35, and 36, with brass cap mkd.

T18S R13E

S35 | S36

S2 | S1

T19S

1943

Land, rolling.

Soil, gravelly, 3rd rate; rocky, 4th rate.

Timber, mesquite, ironwood and paloverde; undergrowth, catclaw and cactus.

## Resurvey of a Portion of the S. Bdy. of T. 18 S., R. 13 E.

## Chains

West, bet. secs. 2 and 35.

Over rolling land, through scattered timber and undergrowth; along a fence; desc. 34 ft. over a gradual W. slope.

17.88

Intersect the boundary of the San Ignacio de la Canoa Grant, at the closing corner of secs. 2 and 35.

From the closing corner, the 20 mile corner on the bdy. of the San Ignacio de la Canoa Grant, bears S. 22° 56' W., 2.21 chs. dist.

Land, rolling.

Soil, gravelly, 3rd rate; rocky, 4th rate.

Timber, palo verde and mesquite; undergrowth, catsclaw and cactus.

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Resurvey of a Portion of Subdivision of T. 18 S., R. 13 E.  
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Reestablishment of a survey executed by T. F. White, Deputy Surveyor, in 1873 and resurveyed by Philip Contzen, Deputy Surveyor, in 1902.

From the cor. of secs. 1, 2, 35 and 36 on the S. bdy. of the Tp.

N. 0° 04' W., bet. secs. 35 and 36.

Over rolling land, through scattered timber and undergrowth; desc. 28 ft. over a gradual NW. slope.

9.10

Wash, 20 lks. wide, 4 ft. deep, course W.; asc. 29 ft. over a S. slope.

13.40

Broad spur; slopes W.; desc. 40 ft. over a N. slope.

18.50

Wash, 15 lks. wide, 4 ft. deep, course W.; asc. 23 ft. over a SW. slope.

26.20

Spur, slopes NW.; desc. 57 ft. over a NE. slope.

36.90

Wash, 100 lks. wide, 3 ft. deep, course W.; asc. 7 ft. over a SW. slope.

39.00

A 5 strand barbed wire corral fence, bears easterly and northwesterly.

39.94

The  $\frac{1}{4}$  sec. cor., as evidenced by a granite stone, 18x8x7 ins., 4 ins. above ground, marked  $\frac{1}{4}$  35 on W. and 36 on E. faces.

Set an iron post, 3 ft. long, 1 in. diam., 20 ins. in the ground, to bedrock, with the orig. cor. stone buried alongside and in a mound of stone to top, at  $\frac{1}{4}$  sec. cor., with brass cap mkd.

‡  
S35 | S36

1943

from which

Resurvey of a Portion of Subdivision of T. 18 S., R. 13 E.

Chains

A mesquite, 7 ins. diam., bears S. 84° E., 243 lks. dist., marked 1/4 S 36 B T.

A mesquite, 8 ins. diam., bears S. 80 1/2° E., 268 lks. dist., marked 1/4 S 36 B T.

Continue through corral.

41.95

Intersect the boundary of the San Ignacio de la Canoa Grant, at the closing corner of secs. 35 and 36.

From the closing corner, the 20 1/2 mile corner on the San Ignacio de la Canoa Grant boundary, bears S. 22° 56' W., 7.73 chs. dist.

Land, rolling. Soil, gravelly, 3rd rate; rocky, 4th rate. Timber, mesquite and palo verde; undergrowth, catsclaw and cactus.

From the cor. of secs. 25, 30, 31 and 36 on the E. bdy. of the Tp., as evidenced by an iron post, 2 ins. diam., set, marked and witnessed as described in the field notes of the resurvey of the W. bdy. of T. 18 S., R. 14 E. in 1941.

N. 86° 45' W., bet. secs. 25 and 36.

Over wash bottom, through heavy timber and scattered undergrowth.

4.10

Wash, 30 lks. wide, 3 ft. deep, course SW.

15.80

A four strand barbed wire fence, bears N. 58° E. and S. 58° W.

24.40

Recross wash, 30 lks. wide, 3 ft. deep, course N. 60° W.

31.50

Leave wash bottom, bears NW. and SE.; asc. 23 ft. over a NE. slope.

33.17

Top of ascent, bears NW. and SE.; descend 34 ft. over a SW. slope.

39.03

The 1/4 sec. cor., as evidenced by a sandstone, 18x8x7 ins. 7 ins. above ground, marked and witnessed as described in the field notes of the resurvey of the subdivision of T. 18 S., R. 13 E.

Set an iron post, 3 ft. long, 1 in. diam., 24 ins. in the ground, to bedrock, with the orig. cor. stone buried alongside, and in a mound of stone to top, at the 1/4 sec. cor., with brass cap mkd.

S25

S36

1945

from which

A mesquite, 8 ins. diam., bears N. 15° W., 179 lks. dist., marked 1/4 S 25 B T.

A mesquite, 6 ins. diam., bears S. 60 1/2° W., 160 lks. dist., marked 1/4 S 36 B T.

## Resurvey of a Portion of Subdivision of T. 18 S., R. 13 E.

## Chains

Thence

West, bet. secs. 25 and 36.

Over nearly level land, through scattered timber and undergrowth.

23.64

Intersect the boundary of the San Ignacio de la Canoa Grant, at the closing corner of secs. 25 and 36.

the true point for

 From the closing corner, the 21 mile corner on the boundary of the San Ignacio de la Canoa Grant, bears S. 22° 56' W., 8.83 chs. dist.

Land, rolling.

Soil, gravelly, 3rd rate; rocky, 4th rate.

Timber, mesquite, palo verde and ironwood; undergrowth, catsclaw and cactus.

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 From the cor. of secs. 19, 24, 25 and 30 on the E. bdy. of the Tp., as evidenced by an iron post, 2 ins. diam., set, marked and witnessed as described in the field notes of the resurvey of the W. bdy. of T. 18 S., R. 14 E., in 1941.

S. 89° 54' W., bet. secs. 24 and 25.

Over rolling land, through scattering timber and undergrowth.

9.00

Wash, 20 lks. wide, 2 ft. deep, course N. 40° W.

29.24

Intersect the boundary of the San Ignacio de la Canoa Grant, at the closing corner of sec. 24 and 25.

From the closing corner; the 22 mile corner on the boundary of the San Ignacio de la Canoa Grant, bears S. 22° 56' W., 13.17 chs. dist.

Land, rolling.

Soil, gravelly, 3rd rate; rocky, 4th rate.

Timber, mesquite and palo verde; undergrowth, catsclaw and cactus.

### Final Test of Solar Attachments.

January 22, 1943, on the meridian established on January 14, 1943.

At 9 a.m. app. t., with Buff solar transits Nos. 16724 and 9984, set off  $31^{\circ} 51' N.$  on the lat. arcs;  $19^{\circ} 44' S.$  on the decl. arcs, and orient the instruments with the solars; the lines of sight agree with the meridian established by Polaris observation.

At 3 p.m. app. t., set off  $31^{\circ} 51' N.$  on the lat. arcs;  $19^{\circ} 41' S.$  on the decl. arcs and repeat the test of the solars. The lines of sight agree with the meridian established by Polaris observation.

January 22, 1943.

### General Description.

The portion of T. 18 S., R. 13 E., described in these field notes is located near the station of Continental, Arizona, and is adjacent to the east boundary of the San Ignacio de la Canoa Private Land Grant. The land is rolling, with an approximate elevation of 3000 ft. above sea level.

The soil is gravelly and rocky, 3rd and 4th rates and is generally of poor quality.

The timber is mesquite, palo verde and ironwood, of a scattered growth, except along the larger washes, where the growth is more dense. The undergrowth is catsclaw, rabbit brush and cactus.

There are numerous washes draining this portion of the township, the drainage being to the west and northwest. These washes are dry except during a period of heavy rains. There is a well with windmill in a corral near the closing corner of secs. 35 and 36, which furnishes abundant water for the limited number of cattle and horses which range the area.

A graded and gravel surfaced road from the Forest Service Experimental Station, which is located about five miles east, to Continental, enters the township near the cor. of secs. 19, 24, 25 and 30 on the east boundary and has a northwest bearing through sec. 24.

No settlers reside in this portion of the township, and no mineral deposits were observed during the progress of the resurvey.

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4-680  
(Revised May 1934)

FIELD ASSISTANTS

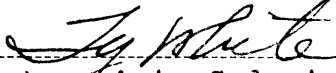
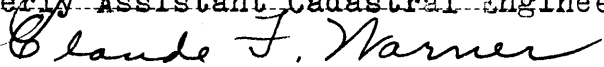
NAMES	CAPACITY
Mike Knezevich	Principal Assistant
Floyd Bassani	Principal Assistant
Ralph L. Lee	Chainman
Stanley Jarocho	Chainman
Gladwin Gregory	Flagman
Roy West	Flagman

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CERTIFICATE OF ~~UNITED STATES~~ SURVEYOR

We, ~~Ty White, Associate Cadastral Engineer and Claude F. Warner, Assistant Cadastral Engineer~~ HEREBY CERTIFY upon honor that, in pursuance of special instructions bearing date of the 8th day of August, 1942, received from the district cadastral engineer for Arizona, with assignment instructions dated November 23, 1942 ~~we have surveyed~~ resurveyed a Portion of the Boundary of the San Ignacio de la Canoa Private Land Grant and A Portion of the South Boundary and Subdivisional Lines of Township 18 South, Range 13 East of the Gila & Salt River Meridian, in the State of Arizona, which are represented in the foregoing field notes as having been executed by ~~me~~ <sup>us</sup> and under ~~my~~ <sup>our</sup> direction; and that said ~~the~~ survey has been made in strict conformity with said instructions, the Manual of Instructions for the Survey of the Public Lands of the United States, and in the specific manner described in the foregoing field notes.

Phoenix, Arizona  
January 22, 1945.  
Glendale, California  
February 12, 1945.

  
Associate Cadastral Engineer  
formerly Assistant Cadastral Engineer  
  
Assistant Cadastral Engineer.

CERTIFICATE OF APPROVAL General Land Office.

OFFICE OF ~~U.S.~~ SUPERVISOR OF SURVEYS,

Denver, Colorado, March 10, 1945.

The foregoing field notes of the ~~survey of~~ Resurvey of a Portion of the Boundary of the San Ignacio de la Canoa Private Land Grant and a Portion of the South Boundary and Subdivisional Lines of Township 18 South, Range 13 East of the Gila and Salt River Meridian, in the State of Arizona executed by Ty White and Claude F. Warner, Assistant Cadastral Engineers, under special instructions dated August 8, 1942, and assignment instructions dated November 23, 1942, having been critically examined, and <sup>re</sup> the necessary corrections made prior to their certification by the engineer, the said field notes, and the ~~the~~ survey therein described, are hereby approved.

  
Supervisor of Surveys.

— CERTIFICATE OF TRANSCRIPT —

~~I CERTIFY that the foregoing transcript of the field notes of the above described surveys in~~  
~~is a true copy of the original field notes on file in the public survey office.~~

U.S. Supervisor of Surveys.