

BOOK 2503

# FIELD NOTES

OF THE SURVEY OF THE

~~Summit of Ben. Mt. ...~~  
~~... extension of the ...~~  
 Some general ...  
 ...

Of the Gila and Salt River Base Meridian,

AS SURVEYED BY

*Philip ...*

United States Deputy Surveyor,

Under his Contract No. *183*, dated *June 17*, 189*1* 1905.

Survey commenced *August 5*, 189*1* 1905.

Survey completed *November 23*, 189*1* 1905.

NAMES AND DUTIES OF ASSISTANTS.

Walter Larnish, chairman

John A. Draper, chairman

W. B. Milliken, member

William C. Haining, member

James H. Linn, member

Frank K. Hill, member

Arthur L. Linn, member

MILE	PAGE
1st	2
2nd	3
3rd	4
4th	5
5th	5
6th	5
7th	6
8th	7
9th	7
10th	8
11th	9
12th	9
13th	10
14th	12
15th	13
16th	14
17th	15
18th	15
19th	16
20th	17
21st	18
22nd	19
23rd	19
24th	20
25th	21
26th	23
27th	23
28th	24
29th	25
30th	26
31st	27
32nd	28
33rd	29
34th	30
35th	30
36th	31
37th	32
38th	33
39th	34
40th	34
41st	35
42nd	35
43rd	36
44th	37
45th	37
46th	38
47th	39
48th	39
49th	40
50th	41

*N. line*

*W. line*

*S. line*

*E. line*

I N D E X

MINERAL SEGREGATION BACA FLOAT NO 3.

1st	42
2nd	43
3rd	44
4th	44
5th	45
6th	46
7th	46
8th	47

Retracement Tumacacori & Chabazas C laims 48.  
do San Jose de Sonoita Land grant 52.

BOOK 2503

INDEX DIAGRAM.

Township \_\_\_\_\_, Range \_\_\_\_\_

6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

Meanders Page \_\_\_\_\_

PRELIMINARY OATHS OF ASSISTANTS.

WE, Walter Percival and John H. Trayer  
do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain over even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances 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 boundaries of the State of Ohio, to wit: the boundaries of the counties of Adams, Cuyahoga, Franklin, Hamilton, and Warren, and the boundaries of the townships of Adams, Cuyahoga, Franklin, Hamilton, and Warren, and the boundaries of the villages of Adams, Cuyahoga, Franklin, Hamilton, and Warren.

Walter Percival, Chainman.  
John H. Trayer, Chainman.

Subscribed and sworn to before me this 1 day of November, 1891905.

W. G. Power



WE, Henry B. Mulliken and William C. Mallory  
do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of the boundaries of the State of Ohio, to wit: the boundaries of the counties of Adams, Cuyahoga, Franklin, Hamilton, and Warren, and the boundaries of the townships of Adams, Cuyahoga, Franklin, Hamilton, and Warren, and the boundaries of the villages of Adams, Cuyahoga, Franklin, Hamilton, and Warren.

H. B. Mulliken, Moundman.  
William C. Mallory, Moundman.

Subscribed and sworn to before me this 1 day of November, 1891905.

W. G. Power



WE, James Harwin and Frank K. Blair  
do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of the boundaries of the State of Ohio, to wit: the boundaries of the counties of Adams, Cuyahoga, Franklin, Hamilton, and Warren, and the boundaries of the townships of Adams, Cuyahoga, Franklin, Hamilton, and Warren, and the boundaries of the villages of Adams, Cuyahoga, Franklin, Hamilton, and Warren.

James Harwin, Axman.  
Frank K. Blair, Axman.

Subscribed and sworn to before me this 1 day of November, 1891905.

W. G. Power



I, Arthur Rogus, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of the boundaries of the State of Ohio, to wit: the boundaries of the counties of Adams, Cuyahoga, Franklin, Hamilton, and Warren, and the boundaries of the townships of Adams, Cuyahoga, Franklin, Hamilton, and Warren, and the boundaries of the villages of Adams, Cuyahoga, Franklin, Hamilton, and Warren.

Arthur Rogus, Flagman.

Subscribed and sworn to before me this 1 day of November, 1891905.

W. G. Power



215  
 18

On November 3, 1905, I proceeded to the N. E. Cor. of the Baca Float No. 3. which was pointed out to me by Jose Maria Peralta, an old settler, who assisted in establishing the same in the month of May, 1863.

I find said monument to be a scattered mound of stone covered with earth and oak brush. In order to satisfy myself with the correctness of this monument I measured to the base of Salero Hill and find the same to be practically 120 chs, dist., also the bearing to the base and top of said hill to be practically S. 45° W. from the old monument.

After having verified the N. E. Cor. established in 1863, I return to the same and in compliance with my instructions establish the N. E. Cor. of the Baca Float No. 3. as follows: In the center of the space occupied or covered by the mound, I

Set a granite stone, 28x12x12x ins., 21 ins. in the ground, for the N. E. cor. and Initial monument of the Float, marked N E Cor. B F No. 3 I M on the S W and P L on the N. E. face, with a triangle ( $\Delta$ ) and arrow pointing west on top of the stone: and raised a mound of stone 4 ft. base, 3 ft. high, S. W. of cor. Pits impracticable.

From this cor. Mt. Hopkins, Santa Rita Range, brs. N. 27° 30' W.

A rocky point brs. N. 14° 15' W.

I then proceed to survey the boundaries of the Float. Survey commence Nov. 3. 1905, and executed with a W. & L. E. Gurley light mountain transit, No. 4607, with 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 declinations arcs.

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

I examine the adjustments of the transit, and correct the level and collimation errors: then to test the solar apparatus, by comparing its indications, resulting from solar observations made during a. m. and p. m. hours, with a meridian determined by observations on Polaris, I proceed as follows:

At the N. E. Cor. of the Baca Float No. 3. just established lat. 31° 37' N. long. 110° 51' W. I set off 31° 37' N. on the lat. arc. 15° 04' S. on the decl. arc. and at 3 h 3 m p. m. l. m. t. determine with the solar a meridian and mark a point thereof on a stone firmly set in the ground, 5 chs. N. of the cor. Nov. 3.

At 4 h 30 m a. m. l. m. t. by my watch, which is correct, I observe polaris at western elongation, in accordance with Manual of Instructions, and mark a point in the line thus determined, on a peg driven in the ground, 5 chs. N. of my station. November 4, 1905.

November 4, 1905. At 9 h 00m. l. m. t. I lay off to the azimuth of Polaris, 1° 25' to the east, and mark the meridian thus determined by cutting a small groove in the stone set Nov. 3, on which the meridian falls 2 ins. east of the mark determined by the solar.

At 9 h 20 m. a. m. l. m. t. I set off 31° 37' N. on the lat. arc. 15° 18' S. on the decl. arc. and mark a point in the meridian determined with the solar, by a cross on the stone already set 5 chs. N. of my station: this mark falls 1/2 ins. east of the meridian established by the polaris observation.

The solar apparatus by p. m. and a. m. observations, defines positions for the meridians, respectively about 11" east and 11" west of the meridian established by the Polaris observations: therefore I concluded that the adjustments of the instrument are satisfactory.

The magnetic bearing of the true meridian at 9h. 40m. a.m., is N.13-15' W., the angle thus determined gives the magnetic declination 13 1/4° E.

Thence I run

West, on the first mile.  
Over mountainous land, ascending through dense oak brush.

- 3.60 Spur, extending N.; descend.
- 7.10 Gulch, 15 lks. wide, course N.; begin steep ascent, Through scattering oak timber.
- 20.00 Top of high conical hill; descend steep over stony ground through scattering oak timber.
- 22.00 Leave dense brush, bears N. and S.
- 36.00 Gulch, 400 ft. below top of mountain, 30 lks. wide, course S.; ascend.
- 38.00 Tunnel, bears S., about 14 chs. dist.
- 40.00 Set a porphyrite stone, 24 X 10 X 6 ins., 18 ins. in the ground, for 1/2 mile corner, marked 1/2 M on E. face, B F NO 3 on S. face and P L on N. face, from which  
An oak, 14 ins. in diam., bears S. 10 1/2° E. 139 lks. dist.; marked B F NO 3 1/2 M B T, and  
An oak, 12 ins. diam., brs. N. 6 1/2° W., 120 lks. dist., marked B F NO 3 1/2 M B T, and raise a mound of stone 3 ft. base and 2 ft. high, S. of the cor.

November 4th, 1905.

Nov. 5th, at 8h 36m, a.m., l.m.t., I set off 31° 37' N. on the Lat. arc; and 15° 35' S., on the decl. arc; and determine a true meridian with the solar at the 1/2 M. cor.

Thence I continue

West, on the 1st mile.

- 46.90 Top of ridge, 400 ft. above gulch, bears N. and S., descend steep.
- 66.00 Gulch, 500 ft. below top of ridge, 20 lks. wide, course S.W., ascend.
- 69.00 Top of S. slope of rocky ridge; descend.
- 74.30 Intersect bet. secs. 7 & 12, E. bdy. of Tp. 21 S., R. 14 E. at this point from which the 1/4 sec. cor., which I find as described by the Surveyor General, brs. N. 1° 2' W., 39.81 chs. dist.  
Set a granite stone, 24 X 12 X 10 ins., 18 ins. in the ground, for closing cor. of secs. 7 & 12 marked C C on the N.  
B F NO 3 on the S.  
7 on the E.  
12 on the W. face, from which  
An oak, 12 ins. in diam., brs. N. 86 1/2° E., 38 lks. dist.; marked T 21 S R 15 E S 7 B T and  
An oak, 8 ins. diam., brs. N. 68° W., 140 lks. dist., marked T 21 S R 14 E S 12 B T, and  
raise a mound of stone 3 ft. base, 2 ft. high, N. of the cor.
- 80.00 Set a porphyrite stone, 24 X 8 X 8 ins., 18 ins. in the ground, for the 1 mile cor., marked 1 M on the E.  
B F NO 3 on the S.,  
P L on the N. face, from which  
An oak, 24 ins. diam., brs. S. 11 1/4° E., 83 lks. dist.; marked B F NO 3 1 M B T.,  
An oak, 12 ins. diam., brs. N. 6 1/2° E., 120 lks. dist. marked T 21 S R 14 E S 12 1 M B T. No other trees within limits. Raise a mound of stone 3 ft. base, 2 ft. high, S. of cor. Pits impracticable.  
Land, mountainous.  
Soil, gravelly, stony and rocky; 3rd and 4th rate.  
Timber, scattering oak. Undergrowth, oak and manzanita.  
Mountainous or land covered with dense undergrowth  
80.00 chs.

November 5. At this point set off 15° 39' S. on the decl. arc; and at 11 h. 44 m. A.M. observe the sun on the meridian. The resulting lat. is 31° 37' N or within 1' of the proper lat.

West on the 2nd mile.

Over mountainous land, descending through scattering oak timber.

- 8.00 Road brs. N. and S.
- 8.70 Gulch, 40 lks. wide course S.W.; ascend over ledges.
- 18.77 Shaft and tunnel br. S. 250 lks. dist.
- 22.30 Shaft and tunnel bear S 200 lks. dist.
- 28.30 Ridge, 400 ft. above gulch, brs. N.W. and S.E.; descend.
- 29.70 Foot, brs. N. and S., ascend gradually.
- 37.40 Road brs. N.E. and S.W.
- 38.60 Frame house brs. 4 chs. S.
- 40.00 Set a porphyrite stone, 28 X 10 X 8 ins., 21 ins. in the ground, for the 1/2 mile cor., marked 1 1/2 M on E., B F NO 3 on S., and P L on N face, from which An oak, 14 ins. diam., brs. S. 76 1/2° E., 87 lks. dist., marked B F NO 3 1 1/2 M B T., and An oak, 20 ins. diam., brs. N. 67 1/2° E., 27 lks. dist., marked T-21 S R 14 E S 12 1 1/2 M B T., and raise a mound of stone 2 ft. base, 2 ft. high to the S of the cor.

November 5, 1905.

November 6. At 8 h. 40 m. A.M. I set off 31° 37' N on the lat. arc and 16° 54' S. on the decl. arc, and determine a true meridian with the solar at the 1/2 mile cor. Thence I continue

West on the 2nd mile.

- 40.10 Shaft brs. S. 120 lks. dist.
- 40.30 Tunnel brs. S. 120 lks. dist.; ascend
- 43.50 Shaft brs. S. 8 lks. dist.; ascend steeper.
- 48.10 Top of Alto Mountain, brs. N. and S.; begin steep descent.
- 50.10 Shaft and tunnel br. S. 80 lks. dist.
- 51.10 Shaft and tunnel br. S. 15 lks. dist.
- 55.90 Tunnel brs. S., 6 chs. dist.
- 57.90 Trail brs. N. and S.
- 58.00 Mound of stone on line.
- 63.20 Same trail, brs. N.W. and S.E.; descend over rocky ledges.
- 71.62 Intersect line bet. secs. 11 & 12 of T. 21. S., R. 14 E., at a point from which the 1/4 sec. cor. brs. N. 0° 35' W, 29.58 chs. dist. Cor. point falls on a granite rock in place, 6 X 3 ft., 6 ins. above ground on which I Cut a cross (x) at the exact cor. point for closing cor. of secs. 11 & 12, marked CC on the N., B F NO 3 on the S., 12 on the E., 11 on the W. face, from which An oak, 8 ins. diam., brs. N. 34 1/2° W., 158 lks. dist., marked T 21 S R 14 E S 11 B T. No other tree within limits. Raised a mound of stone 3 ft. base, 2 1/2 ft. high, N. of the cor. From this cor. mill brs. S 23° W., about 60 chs. dist. N.E. cor. of Alto store brs. S. 53° 45' W.; foot of steep descent.
- 73.10 Same trail brs. N. and S.
- 73.50 House about 11 chs. south.
- 74.50 Three houses br. S. 9 chs.
- 75.20 House brs. S. 8 chs.
- 77.10 House brs. S. 8 chs. dist. These buildings comprise the Alto Mining Camp.
- 80.00 Set a granite stone, 24 X 12 X 8 ins., 18 ins. in the ground for the 2nd mile cor., marked



2 M on E.,  
 B F No 3 on S., and  
 P L on N. face, from which  
 An oak, 16 ins. diam., brs. N. 84° 15' E., 352 lks. dist.  
 An oak, 10 ins. diam., brs. S. 56° 45' E., 268 lks. dist.,  
 both marked B F NO 3 2 M B T., and raise a mound of stone  
 3 ft. base, 2 ft. high, S. of cor. Pits impracticable.  
 This cor. stands about 1000 ft. below the top of the  
 Alto Mountain.  
 Land, mountainous.  
 Soil, stony and rocky; 4th rate.  
 Timber, scattering oak.  
 Mountainous land, 80.00 chs.

November 6, 1905.

November 7th; At 8h., 35m., l.m.t., I set off 31° 37' N  
 on the lat. arc; and 16° 11' S., on the decl. arc; and  
 determine a true meridian with the solar at the 2 mile  
 cor.

Thence I run

West on the 3rd mile.  
 Over mountainous land, descending.  
 8.50 Foot, brs. N. and S., thence over gently rolling ground.  
 12.20 Road brs. N.W. and S.E.  
 25.00 Gulch 40 lks. wide course S.W.  
 40.00 Set a sandstone 24 X 14 X 10 ins., 18 ins. in the ground,  
 for the 2 1/2 mile cor., marked

2 1/2 M on the E.,  
 B F NO 3 on S.,  
 P L on N face, from which  
 A mesquite, 8 ins. diam, brs. S. 19 1/2° W., 347 lks. dist.,  
 marked B F NO 3 2 1/2 M B T. No other trees available,  
 and raise a mound of stone, 3 ft. base, 2 ft. high,  
 S. of cor. Pits impracticable.

57.70 Gulch 80 lks. wide course S.W.  
 72.70 Gulch 80 lks. wide, course S.W. Begin steep ascent.  
 80.00 Set a granite stone, 24 X 14 X 8 ins., 18 ins. in the  
 ground for the 3rd mile cor., marked

3 M on E.,  
 B F NO 3 on S., P L on N. face, and raise a mound of  
 stone, 3 ft. base, 2 ft. high, S. of cor. Pits impracti-  
 cable.

Land, rolling and mountainous.  
 Soil, gravelly, stony and rocky; 3rd and 4th rate.  
 Timber, a few oak and mesquite.  
 Mountainous land, 15.60 chs.

November 7th; At this cor. I set off 16° 14' S., on the  
 decl. arc; and at 11 h. 44 m. l.m.t., observe the sun on  
 the meridian; the resulting lat. is 31° 37' N or within one  
 minute of the proper lat.

Thence I continue

West on the 4th mile.  
 Over mountainous land, ascending.

2.55 Intersect line bet. secs. 10 and 11, T. 21 S., R. 14 E.,  
 at a point from which the 1/4 sec. cor. brs. N. 0° 15' E.,  
 35.07 chs. dist.

Set a granite stone, 24 X 8 X 6 ins., 18 ins. in the ground,  
 for the closing cor. of secs. 10 and 11, marked

CC on N.,  
 B F NO 3 on S.,  
 S 11 on E.,  
 S 10 on W. face, and raise a mound of stones, 2 ft. base,  
 1 1/2 ft. high, N. of cor. Pits impracticable.

3.20 Top of ridge brs. N. and S.; descend.  
 22.60 Gulch 20 lks. wide course S.; ascend.  
 24.00 Top of S. slope of ridge brs. E. and W.  
 27.00 Descend.

36.60 Gulch 20 lks. wide course S.; ascend.  
 40.00 Set a granite stone, 24 X 12 X 8 ins., 18 ins. in the  
 ground, for the 3 1/2 mile cor., marked

3 1/2 M on E.,  
 B F No 3 on S.,

49.30 P L on N. face, and raise a mound of stone, 3 ft. base,  
 2 ft high, S. of cor. Pits impracticable.  
 66.60 Head of gulch course S.E.  
 80.00 Top of conical mountain; descend.  
 Set a granite stone, 28 X 12 X 8 ins., 21 ins. in the  
 ground, for the 4th mile cor., marked  
 4 M on E.,  
 B F NO 3 on S.,  
 P L on N. face, and raise a mound of stone, 3 ft. base,  
 2 ft. high, S. of cor. Pits impracticable.  
 Land, mountainous.  
 Soil, stony and rocky; 4th rate.  
 Timber, a few oak and mesquite.  
 Mountainous land, 80 chs.

November 7, 1905.

November 8: At 8 h., a.m., l.m.t., I set off 31° 37' N.  
 on the lat. arc; and 16° 28' S., on the decl. arc; and  
 determine a true meridian with the solar at the 4th mile  
 cor.

Thence I run

West on the 5th mile.

Over mountainous land, descending.

2.80 Intersect line bet. secs. 9 and 10, T. 21 S., R. 14 E.,  
 at a point from which the  $\frac{1}{2}$  sec. cor. brs. N. 0° 15' E.,  
 29.94 chs. dist.

Set a granite stone, 24 X 12 X 10 ins., 18 ins. in the  
 ground, for the closing corner of secs. 9 and 10, marked  
 C C on N,

B F NO 3 on S.,

S 10 on E.,

S 9 on W. face, and raise a mound of stone, 3 ft. base,  
 2 ft. high, N. of cor. Pits impracticable.

13.25 Gulch 80 lks. wide course S.; ascend.

30.30 Top brs. N. and S.; enter mesa.

40.00 Set a sandstone, 24 X 14 X 6 ins., 18 ins. in the ground,  
 for the  $4\frac{1}{2}$  mile cor., marked

$4\frac{1}{2}$  M on E.,

B F No 3 on S.,

P L on N. face, and raise a mound of stone, 3 ft. base,  
 2 ft. high, S. of cor. Pits impracticable.

48.40 Descend from mesa. brs. N.E. and S.W.

60.80 Gulch 60 lks. wide course S.W.; ascend.

61.70 Top, thence over level land.

70.70 Descend, brs. N. and S.

73.80 Josephine Canyon 140 lks. wide course S.; ascend.

80.00 Set a sandstone, 28 X 8 X 8 ins., 21 ins. in the ground,  
 for the 5 mile cor., marked

5 M on E.,

B F NO 3 on S.,

P L on N. face, and raise a mound of stone 3 ft. base,  
 2 ft. high, S. of cor, from which

A mesquite, 16 ins. diam., brs. S. 4° 45' W., 103 lks. dist. <sup>limits</sup>  
 marked B F NO 3 5 M B T. Pits impracticable. No other trees within

U.S.L.M. No. 30, Tyndall Mining District, brs. S. 4° 5' W.

~~Cayotane Peak, Cayotane Mountains, brs. S. 22° W.~~

Mt. Wrightson (Old Baldy) Santa Rita Range, brs. N. 47°  
 45' E.

Mt. Allen, Grosvenor Hills, brs. S. 52° 03' E.

Land, mountainous and level.

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

Timber, a few mesquite.

Undergrowth, mesquite and ocotilla caeti.

Mountainous land, 52.80 chs.

Nov. 8th; at this cor. I set off 16° 32' S. on the decl.  
 arc; at 11<sup>44</sup> A.M. l.m.t., observe the sun on the meridian,  
 the resulting lat. is 31° 37', identical with the proper  
 lat.

Thence I run

West on the 6th mile.

Over mountainous land, ascending.

NORTH BOUNDARY OF BACA FLOAT NO. 3.

3.37 v Intersect the line bet. secs. 8 and 9, T. 21 S., R. 14 E.,  
 at a point from which the  $\frac{1}{4}$  sec. cor. <sup>as described by the survey of 1895</sup> brs. N. 0° 10' W.,  
 3065 chs. dist.  
 Set a granite stone, 24 X 8 X 6 ins., 18 ins. in the  
 ground, for the closing cor. of secs. 8 and 9, marked  
 CC on N.; B F NO 3 on S., S 9 on E, and S 8 on W. face.,  
 and raise a mound of stone, 2 ft base, 1½ ft. high, N.  
 of cor. Pits impracticable.

7.50 Top of S. slope of ridge brs. E. and W.; descend.  
 14.30 Gulch 30 lks. wide course S., ascend.  
 25.60 S. slope of hill; descend.  
 37.60 Descend steeper.  
 40.00 Set a granite stone, 24 X 16 X 8 ins., 18 ins. in the  
 ground for the 5½ mile cor., marked  
 5½ M on E.,  
 B F NO 3 on S.,  
 P L on N. face, and raise a mound of stone, 3 ft. base,  
 2 ft. high, N S of cor. Pits impracticable.

53.00 Gulch 40 lks. wide course S.E.; ascend.  
 67.80 Top brs, N. E. and S.W. Enter level land.  
 80.00 Set a sandstone, 20 X 12 X 12 ins., 15 ins. in the ground,  
 for the 6th mile cor., marked  
 6 M on E.,  
 B F NO 3 on S.,  
 P L on N face, and raise a mound of stone, 3 ft. base,  
 2 ft. high, N S of cor. Pits impracticable.  
 From this cor.  
 Thumb Butte, Atacosa Range, brs. S. 37° W.  
 Baboquivari Peak brs. N. 73° 45' W.  
 Land, mountainous and level.  
 Soil, gravelly, stony and rocky; 3rd and 4th rate.  
 Timber, scattering mesquite and oak.  
 Mountainous land, 68'00 chs.

November 8th, 1905.

November 9th. At 8h 35m. A.M. I set off 31° 37' N.  
 on the lat. arc; and 16° 4' S. on the decl. arc; and  
 determine a true meridian with the solar at the 6 mile cor.  
 Thence I run

West on the 7th mile.  
 Over level land.

4.11 v Intersect the line bet. secs. 7 & 8, T. 21 S., R. 14 E.,  
 at a point from which the  $\frac{1}{4}$  sec. cor. <sup>as described by the survey of 1895</sup> brs. N. 0° 10' W.,  
 30.59 chs. dist.  
 Set a granite stone, 20 X 6 X 6 ins., 15 ins. in the  
 ground, for the closing corner of secs. 7 and 8, marked  
 C C on N.,  
 B F NO 3 on S.,  
 S 8 on E.;  
 S. 7 on W. face, and raise a mound of stone, 2 ft. base,  
 1½ ft. high, N. of cor. Pits impracticable.

10.00 Descend, brs. N.E. and S.W.  
 33.50 Enter gulch course W.  
 40.00 Set a granite stone, 24 X 10 X 8 ins., 18 ins. in the  
 ground, for the 6½ mile cor., marked  
 6½ M on E.,  
 B F NO 3 on S.,  
 P L on N., and raise a mound of stone, 3 ft. base, 2 ft.  
 high, N S of cor. Pits impracticable.  
 This cor. stands at foot of high ledge on S. side of  
 gulch.

42.20 Leave gulch course W.S.W.; ascend.  
 46.00 Top; thence along N. side of gulch.  
 66.00 Leave side of gulch; ascend.  
 80.00 Set a sandstone, 24 X 12 X 10 ins., 18 ins. in the  
 ground, for the 7th mile cor., marked.  
 7 M on E.,  
 B F NO 3 on S.,  
 P L on N. face, and raise a mound of stone, 3 ft. base,  
 2 ft. high, N S of cor. Pits impracticable.

Caratone

NORTH BOUNDARY OF BACA FLOAT NO. 3.

U.S.L.M. NO. 31, Tyndal Mining District Brs. S. 46° E.  
Cayetano Peak, San Cayetano Mts., brs. S. 2° 37' W.  
Thumb Butte, Atacosa Range brs. S. 34° 25' W.  
Land, mountainous and gently rolling.  
Soil, stony and rocky; 4th rate.  
Timber, some mesquite in gulches.  
Mountainous land, 50.30 chs.

November 9th. At this cor. I set off 16° 49' S. on the decl. arc; and at 11h. 44m. AM 1.m.t., I observe the sun on the meridian, the resulting lat. is 31° 37', or within 1' of the proper lat.

Thence I run

West on the 8th mile.

Over mountainous land, ascending.

4.10 Intersect line bet. secs. 7 and 12, E. bdy. of T. 21 S. R. 13 E., at a point from which the 1/4 sec. cor. <sup>as described by the Surveyor General</sup> brs. N. 0° 11' W., 28.50 chs. dist.

Set a granite stone, 24 X 12 X 8 ins., 18 ins. in the ground, for the closing cor. of secs. 7 and 12, marked

C C on N.,

B F NO 3 on S.,

S 7 on E.,

S 12 on W face, and raise a mound of stone, 3 ft. base, 2 ft. high, N. of cor. Pits impracticable.

14.00 Ridge bears N.E. and S.W.; descend.

40.00 Set a granite stone, 24 X 8 X 8 ins., 18 ins. in the ground, for the 7 1/2 mile cor., marked

7 1/2 M on E.,

B F NO 3 on S.,

P L on N. face; and raise a mound of stone 3 ft. base, 2 ft. high, S of cor. Pits impracticable.

40.60 Enter dry wash course W.

48.20 Leave wash course S.W.; ascend.

78.00 Top of S. slope of mesa, descend over rolling land.

80.00 Set a granite stone, 24 X 8 X 6 ins., 18 ins. in the ground, for the 8th mile cor., marked

8 M on E.,

B F NO 3 on S.,

P L on N. face, from which

A Palo Verde, 8 ins. diam., bears N. 1° 45' E., 76 lks. dist., marked T 21 S R 13 E S 12 8 M B T, No other trees within limits. Raise a mound of stone, 3 ft. base, 2 ft. high, S of cor. Pits impracticable.

Land, mountainous and rolling.

Soil, gravelly and stony; 3rd and 4th rate.

Timber; scattering mesquite and palo verde.

Undergrowth; mesquite and caeti.

Mountainous land, 40.60 chs.

November 9, 1905.

November 10: At 8 h. 40m. AM 1.m.t., I set off 31° 37' on the lat. arc; and 17° 04' S., on the decl. arc; and determine a true meridian with the solar at the 8 mile cor. Thence I run

West, on the 9 th mile.

Over rolling land, descending.

3.78 Intersect line bet. secs. 11 and 12, T. 21 S. R. 13 E. at a point from which the 1/4 sec. cor. <sup>as described by the Surveyor General</sup> brs. N. 0° 05' W., 29.32 chs. dist.

Set a limestone, 24 X 14 X 10 ins., 18 ins. in the ground, for the closing cor. of secs. 11 and 12, marked

C C on N.,

B F NO 3 on S.,

S 12 on E.,

S 11 on W. face, from which

A palo verde, 4 ins. diam., brs. N. 4 1/2° W., 55 lks. dist. marked T 21 S R 13 E S 11 B T. No other trees within limits. Raise a mound of stone, 3 ft. base, 2 ft. high, N. of cor.

19.50 Small dry wash course S.W.

40.00 Set a sandstone, 24 X 10 X 8 ins., 18 ins. in the ground, for the 8 1/2 mile cor., marked

NORTH BOUNDARY OF BACA FLOAT NO. 3.

62.20 8 1/2 M on E.,  
80.00 B F NO 3 on S.,  
P L on N. face, and raise a mound of stone 3 ft. base,  
2 ft. high, S. of cor. Pits impracticable.  
Dry wash 30 lks. wide course S.W.  
Set a sandstone, 24 X 10 X 7 ins., 18 ins. in the ground,  
for the 9th mile cor., marked

9 M on E.,  
B F NO 3 on S.,  
P L on N. face, and raise a mound of stone, 3 ft. base,  
2 ft. high, N. of cor. Pits impracticable.  
From this cor. Bull Water Knob, Tumacacori Range, brs.  
N. 80° 30' W.  
Land, rolling,  
Soil, stony; 4th rate.  
Timber; scattering mesquite and palo verde.  
Undergrowth; mesquite, palo verde and cacti.  
November 10:- At this cor. I set off 17° 06' S., on the  
decl. arc; and at 11h. 44m. A.M. l.m.t., I observe the sun on  
the meridian; the resulting lat. is 31° 37' which is  
identical with the proper lat.

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2.80 Thence west on the 10th mile line.  
3.79 Over rolling land; descending.  
Enter draw course S.W.  
Intersect line bet. secs. 10 and 11, T. 21 S., R. 13 E.,  
at a point from which the 1/4 sec. cor. brs. N. 0° 02' W. *as shown by the Survey General*  
28.90 chs. dist.  
Set a granite stone, 24 X 6 X 6 ins., 18 ins. in the ground,  
for the closing cor. of secs. 10 and 11, marked

C C on N.,  
B F NO 3 on S.,  
S 11 on E.,  
S 10 on W face, from which  
A mesquite, 15 ins. diam., brs. N. 57 1/2° W., 130 lks. dist.,  
marked T 21 S R 13 E S 10 B T,  
A mesquite 10 ins. diam., brs. N. 53° E., 33 lks. dist.,  
marked T 21 S R 13 E S 11 B T.  
And raise a mound of stone 2 ft. base, 1 1/2 ft. high, N. of  
cor.

7.55 Road brs. N.E. and S.W.  
9.50 Leave draw; ascend.  
11.00 Top, thence over gently rolling land, through dense brush.  
40.00 Set a sandstone, 24 X 10 X 6 ins., 18 ins. in the ground,  
for the 9 1/2 mile cor., marked

9 1/2 M on E.,  
B F NO 3 on S.,  
P L on N. face, from which  
A mesquite, 8 ins. diam., brs. S. 88 1/2° W., 184 lks. dist.  
marked B F NO 3 9 1/2 M B T. No other trees within limits.  
Raise a mound of stone, 3 ft. base, 1 1/2 ft. high, S. of  
cor. Pits impracticable.

47.30 Dry wash 30 lks. wide course S.W.  
50.00 Enter mesa.  
62.00 Leave mesa; begin gradual descent.  
80.00 Set a sandstone, 24 X 10 X 10 ins., 18 ins. in the ground,  
for the 10th mile cor., marked

10 M on E.,  
B F NO 3 on S.,  
P L on N. face and raise a mound of stone 3 ft. base, 2  
ft. high, S. of cor. Pits impracticable.  
From this cor.  
Mr. Wrightson, Santa Rita Range, brs. N. 35° E.  
Sopori Knob brs. N. 54° 50' W.  
Land, rolling and level.  
Soil, gravelly and stony; 4th rate.  
Timber; scattering mesquite and palo verde.  
Undergrowth; tesotillo, mesquite, palo verde and cacti.  
Dense undergrowth; 69.00 chs.

November 10, 1905.  
November 11: At 8 h 35m. A.M. l.m.t., I set off 31° 37' on  
the lat. arc; and 17° 20' on the decl. arc; and determine

NORTH BOUNDARY OF BAWA FLOAT NO. 3.

a true meridian with the solar at the 10<sup>th</sup> mile cor.  
 Thence I run  
 West, on the 11th mile.  
 Descending gradually through dense brush.  
 3.28 Intersect line bet. secs. 9 and 10, T. 21 S., R. 13 E.,  
 at a point from which the  $\frac{1}{4}$  sec. cor. brs. N. 0° 10' W.,  
 29.40 chs. dist.  
 Set a granite stone, 20 X 10 X 6 ins., 15 ins. in the  
 ground, for the closing cor. of secs. 9 and 10, marked  
 C C on N.;  
 B F NO 3 on S.,  
 S 10 on E.,  
 S 9 on W. face, and raise a mound of stone, 3 ft. base,  
 2 ft. high, N. of cor. Pits impracticable.  
 5.00 Along S. edge of dry wash course W.  
 28.00 Leave edge of wash course N.W.  
 40.00 Set a sandstone, 28 X 10 X 10 ins., 21 ins. in the ground,  
 for the 10 $\frac{1}{2}$  mile cor., marked  
 10 $\frac{1}{2}$  Mon E.,  
 B F NO 3 on S.,  
 P L on N. face and raise a mound of stone, 3 ft. base,  
 2 ft. high, N. of cor. Pits impracticable. From which  
 Waldeck Peak, Santa Rita Range, brs. N. 31° 05' E.  
 Sopori Knob brs. N. 52 $\frac{1}{2}$ ° W.  
 42.00 Descend steeper.  
 55.00 Draw 1.00 ch. wide course N.W.; ascend.  
 61.00 Top brs. N.W. and S.E.; descend.  
 71.40 Dry wash 30 lks. wide course N.W.; thence over level land,  
 through heavy mesquite timber.  
 80.00 Set a sandstone, 24 X 10 X 8 ins., 18 ins. in the ground,  
 for the 11th mile cor., marked  
 11 M on E.,  
 B F NO 3 on S.,  
 P L on N., from which  
 A mesquite, 8 ins. diam., brs. N. 45° E., 54 lks. dist.,  
 marked T 21 S R 13 E S 9 11 M B T  
 A mesquite, 5 ins. diam., brs. N. 49° 45' E., 52 lks. dist.,  
 marked T. 21 S R 13 E S 9 11 M B T  
 A mesquite, 6 ins. diam., brs. N. 77° 15' W., 47 lks. dist.,  
 marked T 21 S R 13 E S 9 11 M B T  
 A mesquite, 18 ins. diam., brs. S. 67° E., 84 lks.  
 dist., marked B F NO 3 11 M B T., and raise a mound of  
 stone, 3 ft. base, 2 ft., high, S. of cor. Pits impracti-  
 cable.  
 Land; rolling and level.  
 Soil; gravelly and stony; 3rd and 4th rate.  
 Timber; mesquite.  
 Undergrowth; mesquite and tesotillo, palo verde and cacti,  
 Heavily timbered or land covered with dense undergrowth;  
 80.00 chs.  
 November 11: At this cor. I set off 17° 23' S. on the decl  
 arc; and at 11 h. 44 m. A.M. m.t., I observe the sun on the  
 meridian; the resulting lat. is 31° 37' N or within 1  
 minute of the proper lat.

general

2° 45' 56  
 45° E. 54  
 49° 45' 52  
 77° 15' 47  
 67° E 84

all supplemental  
 notes Page  
 Book B  
 2.91  
 1.91  
 should be 28.41

Thence west on the 12th mile.  
 Over level land, through heavy mesquite timber and dense  
 brush.  
 Intersect line bet. secs. 8 and 9, T. 21 S., R. 13 E.,  
 at a point from which the  $\frac{1}{4}$  sec. cor. brs. N. 0° 06' W.,  
 29.41 chs. dist.,  
 Set a sandstone, 24 X 8 X 6 ins., 18 ins. in the ground,  
 for the closing cor. of secs. 8 and 9, marked  
 C C on N.,  
 B F NO 3 on S.,  
 S 9 on E.,  
 S 8 on W face; from which  
 A mesquite, 8 ins. in diam., brs. N. 63° 45' W., 209 lks.  
 dist., marked T 21 S R 13 E S 8 B T and  
 A mesquite, 8 ins. diam., brs. N. 5 $\frac{1}{2}$ ° E., 47 lks., dist.,  
 marked T 21 S R 13 E S 9 B T, and raise a mound of stone,  
 2 ft. base, 1 $\frac{1}{2}$  ft. high, N. of cor. Pits impracticable.

general

NORTH BOUNDARY OF BACA FLOAT NO. 3.

11.00 Dry wash 30 lks. wide course S.W.  
 24.90 Road brs. NW. and S.E.  
 33.60 Dry wash 30 lks. wide course S.W.  
 37.95 Road brs. N. and S.  
 40.00 Set a granite stone, 28 X 8 X 8 ins., 21 ins. in the ground, for the 11½ mile cor., marked 11½ M on E., B F NO 3 on S., P L on N. face, from which A palo verde, 9 ins. diam., brs. N. 59° 45' E., 149 lks. dist., marked T 21 S R 13 E S 8 11½ M B T, A mesquite, 7 ins. diam., brs. S. 50° E., 37 lks. dist., marked B F NO 3 11½ M B T, and raise a mound of stone, 2 ft. base, 1½ ft. high, S.E. of cor.  
 43.25 Dry wash 30 lks. wide course S.W. Enter Santa Cruz bottom brs. N.E. and S.W.  
 48.00 Road brs. E.N.E. and W.S.W.  
 49.05 Brush fence brs. N.E. and S.W.  
 52.20 Intersect the E. line of the Tubac townsite at a point ~~30.00 chs. N. 90° 05' W.~~ from the S.E. cor. thereof. Set a granite stone, 24 X 8 X 6 ins., 18 ins. in the ground for a closing cor. of Baca Float No. 3, marked C C on E., face T T on W., face B F NO 3 on S.E. edge, and raise a mound of stone, 2 ft. base, 1½ ft. high, E. of cor. Pits impracticable.  
 63.70 Small corral on line; leave dense brush brs. N.E. and S.W.  
 65.70 Rosario Gonzales' house on line.  
 65.80 Jose Grijalva's house brs. N. 2.00 chs. dist.  
 66.30 Irrigation ditch brs. N.W.  
 72.80 Road brs. N. and S.  
 73.88 Wire fence brs. N. and S.; leave field.  
 75.25 Road brs. N. and S.  
 75.40 Right bank of Santa Cruz River. Course northerly.  
 78.60 Left bank of Santa Cruz River.  
 80.00 Set a malapais stone. 24 X 14 X 12 ins., 18 ins. in the ground, for the 12th mile cor., marked 12 M on E., B F NO 3 on S., P L on N. face; and raise a mound of stone, 3 ft. base, 2½ ft. high, S.E. of cor. From this cor. A hackberry, 6 ins. diam., brs. S. 53½° E., 59 lks. dist., An elder, 6 ins. diam., brs. S. 77½° W., 171 lks., dist., both marked B F NO 3 12 M B T. From this cor. Waldeck Peak, Santa Rita Range, brs. N. 35½° E. Land, level. Soil; sandy, stony and gravelly; 2nd, 3rd and 4th rate. Timber; mesquite and scattering cottonwood, elder and hackberry. Undergrowth; mesquite, tesota and bachata. Heavily timbered or land covered with dense undergrowth 63.70 chs.

November 11, 1905.

November 12: At 8h. 40m. A.M. 1.m.t., I set off 31° 37' N on the lat. arc; and 17° 33' S on the decl. arc; and determine with a solar a meridian on the 12 mile cor.

Thence I run West on the 13th mile. Over level land.

1.98 Intersect line bet. secs. 7 and 8. T 21 S at a point from which the ¼ sec. cor. is 30.33 chs. dist. Set a granite stone, 24 X 12 X 11 ins. in the ground, for the closing cor. of sec. 7 and 8, marked C C on N., B F NO 3 on S., S 8 on E., S 7 on W. face, from which A pear tree, 8 ins. diam., brs. N. 59° W., 3.49 chs. dist., marked T 21 S R 13 E S 8 11½ M B T, and A willow, 24 ins. diam., brs. N. 9½° E., 4.60 chs. dist.,

*For further Journal  
 see supplement  
 make page 9.  
 Bank B  
 Red page  
 123*

*see supplement  
 make page 1.  
 Bank B.*

## NORTH BOUNDARY OF BACA FLOAT NO. 3

chains	
	marked T 21 S R 13 E S 18 B T, and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor. Pits impracticable.
5.00	Dry wash 40 lks. wide course N. N. E.
6.00	Leave bottom, ascend.
9.00	Top of mesa.
11.00	Town of Tubac on both sides of line.
12.10	Road from Tucson to Nogales brs. N. and S.
14.26	Wire fence brs. N. and S.
15.00	Tubac schoolhouse brs. N. 370 lks. dist.
17.90	Wire fence brs. N. and S. Enter dense brush.
19.70	Road brs. N.W. and S.E.
22.88	Intersect the W. bdy. of Tubac townsite at a point from which the S.W. cor. thereof brs. <del>S. 30° 30' chs.</del> dist. Set a granite stone, 24 X 8 X 6 ins., 18 ins. in the ground, for the closing cor. of the Baca Float No. 3, marked C C on W., face T T on E., face B F NO 3 on SW. edge, and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable.
32.10	Dry wash 40 lks. wide course S.E.
36.44	Set a sandstone, 28 X 10 X 8 ins., 21 ins. in the ground, for the N.W. cor. of the Baca Float No. 3, marked N W Cor B F NO 3 on S. E., and P L on N.W. face, from which A mesquite, 6 ins. diam., brs. N. 6° E., 123 lks. dist., T 21 S R 13 E S 7 N W Cor B T., A mesquite, 7 ins. diam., brs. S 40° 45' W., 48 lks. dist., marked T 21 S R 13 E S 7 N W Cor B T. A mesquite, 5 ins., diam., brs. S. 40° E., 61 lks. dist. marked B F No 3 N W Cor B T., A mesquite, 6 ins. diam., brs. N. 35° W., 68 lks. dist., marked T 21 S R 13 E S 7 N W Cor B T. Raise a mound of stone, 4 ft. base, 3 ft. high, S.E. of cor. From the S. W. Cor. of the Tubac Townsite I run East 40.68 chs. to the S. E. Cor. Thence I run <u>West Bdy. Baca Float No 3.</u> S 0° 3' 11" E. on the 13th mile.
3,56	Over gently rolling land through scattering mesquite timber and dense brush. Set a sandstone, 24 X 10 X 8 ins., 18 ins. in the ground, for the 12½ mile cor., marked 12½ M on N., B F NO 3 on E., and P L on W. face; from which A mesquite, 6 ins. diam., brs. S. 23½° E., 82 lks. dist., marked B F NO 3. 12½ M B T., A mesquite, 6 ins. diam., brs. N. 23° 45' W., 168 lks. dist., marked T 21 S R 13 E S 7 12½ M B T. Raise a mound of stone, 3 ft. base, 1½ ft. high, N.E. of cor. Pits impracticable.
10.95	Intersect line bet. secs. 7 and 18 T. 21 S. R. 13 E., at a point from which the ¼ sec. cor. brs. <del>N 89° 40' W., 6.21 chs. dist.</del> Set a malpais stone, 24 X 10 X 6 ins., 18 ins. in the ground, for closing cor. of secs. 7 and 18, marked C C on W. B F NO 3 on E., S 7 on N., S 18 on S. face, from which A mesquite, 4 ins. diam., brs. S. 65° W. 127 lks. dist., marked T 21 S R 13 E S 18 B T., and A mesquite, 4 ins., brs. N. 65° W., 115 lks. dist., marked T. 21 S R 13 E S 7 B T., and raise a mound of stone, 2 ft. base, 1½ ft. high, W of cor.
11.31	Dry wash 40 lks. wide course S.E.
12.66	Dry wash 40 lks. wide course N.E.



WEST BOUNDARY OF BACA FLOAT NO. 3.

chains

13.40  
17.40  
39.15  
42.30  
43.56

Dry wash 20 lks. wide course N.E.  
 Dry wash 20 lks. wide course N.E.  
 Enter draw course N.E.  
 Leave draw course N.  
 Completion of the 13th mile.  
 Set a malpais, 24 X 10 X 10 ins., 18 ins. in the ground,  
 for the 13 mile cor., marked  
 13 M on N.,  
 B F NO 3 on E.,  
 P L on W. face, from which  
 A mesquite, 12 ins. diam., brs. S. 65 1/2° W., 97 lks. dist.,  
 marked B E I N S B 13 E S 18 13 M B T., and raise a mound  
 of stone, 3 ft. base, 2 ft. high E.W. of cor. Pits  
 impracticable. No other trees within limits.  
 From this cor.  
 Cayetano Peak, San Cayetano Mts., brs. S. 39 1/2° E.,  
 Tubac schoolhouse brs. N. 24 1/2° E.  
 Land, gently rolling and level.  
 Soil, gravelly and stony; 3rd and 4th rate.  
 Timber, scattering mesquite.  
 Undergrowth; mesquite and tesota.  
 Dense undergrowth, 62.50 chs.  
 November 12: At this cor. I set off 17° 40' S. on the  
 decl. arc; and at 11.44 A.M., observe the sun on the  
 meridian, the resulting lat. is 31° 37' Nor within 1'  
 of the proper lat.

28.20  
29.00  
30.00  
34.50  
37.70  
39.00  
40.00

Thence S. 0° 3' 11" E. on the 14th mile.  
 Over gently rolling land, through scattering mesquite  
 timber and dense brush.  
 Adobe house, brs E. about 13 chs. dist.  
 Descend.  
 Enter draw course E. Adobe house brs. E. about 13 chs.  
 Dry wash 30 lks. wide course E.  
 Leave draw; ascend.  
 Spur of mesa, extending E; descend.  
 Set a malpais stone, 24 X 14 X 10 ins., 18 ins. in the  
 ground, for the 13 1/2 mile cor., marked  
 13 1/2 M on the N.,  
 B F NO 3 on E.,  
 P L on W. face, and raise a mound of stone, 3 ft. base,  
 2 1/2 ft. high E.W. of cor. Pits impracticable.  
 From this cor.

44.00  
46.50  
47.56

Tubac schoolhouse brs. N. 13° 45' E.  
 Foot, brs. E and W.  
 Road from Tucson to Nogales brs. N.E. and S.W.  
 Intersect line bet. secs. 18 and 19, T. 21 S. R. 13 E.  
 at a point from which the 1/4 sec. cor. brs. S. 89°  
 50' W., 555 lks. dist.  
 Set a malpais, 24 X 8 X 6 ins. in 18 ins. in the ground,  
 for the closing cor. of secs. 18 and 19, marked  
 C C on W.,  
 B F NO 3 on E.,  
 S 18 on N.,  
 S 19 on S. face, from which  
 A mesquite, 6 ins. diam., brs. N. 53° 45' W., 130 lks.  
 dist., marked T. 21 S. R. 13 E. S 18 B T, and  
 A mesquite, 8 ins. diam., brs. S. 15 1/2° W., 119 lks. dist.,  
 marked T 21 S R 13 E S 19 B T, and raise a mound of stone,  
 2 ft. base, 1 1/2 ft. high, W. of cor. Pits impracticable.  
 Wire fence, brs. E. and W., Enter heavy mesquite timber.  
 Enter Santa Cruz bottom brs. N.E. and S.W.  
 Long distance telephone line from Tucson to Nogales  
 brs. N.E. and S.W.  
 Leave heavy mesquite brs. E. and W. Enter scattering  
 cottonwood and dense sunflowers.  
 Leave cottonwoods and sunflowers brs. N.W. and S.W.;  
 reenter mesquite timber and brush.

~~50.00~~

~~Set a sandstone, 24 X 12 X 10 ins., 18 ins. in the ground,  
 for the 14th mile cor., marked~~

*for this cov.  
 see Supplemental  
 page 10*

WEST BOUNDARY OF BACA FLOAT NO. 3.

chains

14 M on N.,  
 B F NO 3 on E.,  
 P, L on W. face, from which  
 A mesquite, 12 ins. diam., brs. S. 75° E., 18 lks. dist.,  
 marked B F NO 3 14 M B T,  
 A mesquite, 9 ins. diam., brs. S. 7½° E., 66 lks. dist.,  
 marked B F NO 3 14 M B T.  
 A mesquite, 12 ins. diam.,; brs. S. 23° 45' W., 45 lks.  
 dist. marked T 21 S R 13 E S 19 14 M B T.  
 A mesquite, 10 ins. diam., brs. S. 73½° W., 83 lks. dist.,  
 marked T 21 S R 13 E S 19 14 M B T.  
 Land, level and rolling.  
 Soil; alluvial, gravelly and stony; 1st, 2nd, and 3rd rate.  
 Timber, mesquite and scattering cottonwood.  
 Undergrowth; mesquite, tesote, bacahata and sunflowers.  
 Heavily timbered or land covered with dense undergrowth  
 80.00 chs.

November 12, 1905.

November 13, 1905. At the 8 h 44m AM l.m.t., I set off  
 31° 35' N. on the lat. arc; and 17° 54' S., on the decl.  
 arc; and determine a true meridian with the solar at  
 the 14 mile cor.

Thence I run

S. 0° 3' 11" E. on the 14th mile.

5.00 Adobe house 160 lks. E.

5.89 Wire fence brs. E. and W.

Intersect N. bdy. of the Tumacacomi Private Land Grant  
 (Fundo Legal) at a point from which Post 1 of said  
 Fundo Legal brs. 78 lks. dist.

Set a granite stone, 24 X 12 X 12 ins., 18 ins. in the  
 ground, for the closing cor. of Baca Float No. 3, marked

C C on N.,

T G on S.,

B F NO 3 on E face, from which

A mesquite, 16 ins. diam., brs. S. 5° 45' W., 121 lks.,  
 marked T 21 S R 13 E S 19 T G B T.,

A mesquite, 12 ins. diam., brs. N. 19½° E., 28 lks. dist.,  
 marked B F NO 3 B T.

20.00 Road brs. N.E. and S.W.

22.20 Road brs. N.E. and S.W.

25.00 Tomas Cota's house brs. W. 3 chs., dist.

26.70 Brush fence brs. E. and W. Enter garden.

27.85 Brush fence, brs. N.E. and S.W. Leave garden; enter dense sunflowers.

32.43 Wire fence brs. E. and W.

32.60 Jose Villa's house brs. W 5.50 chs. dist.

40.00 Set a malpais stone, 28 X 8 X 8 ins., 21 ins. in the  
 ground, for the 14½ mile cor., marked

14½ M on N.,

B F NO 3 on E.,

P L on W. face. Dig pits, 36 X 36 X 12 ins., E. and W.,  
 of stone, 4 ft. dist., and raise a mound of earth, 5  
 ft. base, 2½ ft. high, W of cor.

45.90 Intersect line bet. secs. 19 and 30, T. 21 S. R. 13 E.,  
 at a point from which the ½ sec. cor. brs. S. 89° 50' W., 5.82 chs. dist.

Set a malpais, 24 X 8 X 8 ins., 18 ins. in the ground  
 for the closing corner of secs. 19 and 30, marked

C C on the W.,

B F NO 3 on E.,

S 19 on N.,

S 30 on S. face, dig pits, 36 X 36 X 12 ins., N. and S.  
 3 ft. dist., and W. of stone 7 ft. dist., and raise a  
 mound of earth, 5 ft. base, 2½ ft. high, W of cor.

58.26 Wire fence E. and W. Enter garden.

59.00 Adobe house about 5.00 chs. W.

61.02 Wire fence brs. E. and W. Leave garden. Enter heavy mesquite timber and brush.

68.80 Wire fence brs. N.N.E. and S.S.W.

72.75 Dry wash 20 lks. wide course E.

78.00 Dry wash 80 lks. wide course E.

*See this mile  
 see supplemental  
 make Page 1.*

*at intersection of the boundary general*

WEST BOUNDARY OF BACA FLOAT NO. 3.

chains.

79.00 *OK* Set a sandstone, 28 X 10 X 10 ins., 21 ins. in the ground, for witness cor. to the 15th mile cor., marked  
W C on top  
15 M on N.,  
B F NO 3 on E.,  
P L on W. face, from which  
A mesquite, 8 ins. diam., brs. N. 16 1/4° E., 88 lks. dist., marked W C B F NO 3 15 M B T.  
A mesquite, 8 ins. diam., brs. S. 8 1/2° E., 87 lks. dist., marked W C B F NO 3 15 M B T.  
A mesquite, 10 ins. diam., brs. S 44° W., 129 lks., dist., marked T 21 S R 13 E S 30 15 M W C B T.  
A mesquite, 7 ins. diam., brs. S. 69° 45' W., 31 lks., dist., marked T 21 S R 13 E S 30 15 M W C B T.

80.00 The point for the 15 mile cor. falls in a dry wash course E. Land; level.  
Soil; Rich and sandy loam; 1st and 2nd rate.  
Timber; mesquite.  
Undergrowth; mesquite, tesota and sunflowers.  
Heavily timbered or land covered with dense undergrowth 75.95 chs.  
Nov. 13th: At this cor. I set off 17° 53' S. on the decl. arc; and at 11 h 44 m A.M., I observe the sun on the meridian; the resulting lat. is 31° 35' Nor within 1' of the proper lat.

Thence S. 0° 3' 11" E. on the 16th mile.  
Over level land, heavy mesquite timber and dense brush.

1.10 Dry wash 25 lks. wide course E.  
6.60 Road brs. E. and W. Edward's house brs. E. about 10 chs.  
6.71 Wire fence brs. E. and W.  
25.53 Road from Tucson to Nogales brs. N.W. and S.E.  
27.00 Court yard of mission brs. 2 chs. E.  
30.00 Tumacacori Mission brs. 2.00 chs. E.  
31.50 Adobe house brs. 4.00 chs. E.  
34.86 Telephone line brs. N.W. and S.E.  
36.00 House 120 lks. E.  
40.00 Set a malpais stone, 24 X 12 X 12 ins., 18 ins. in the ground, for the 15 1/2 mile cor., marked  
15 1/2 M on N.,  
B F NO 3 on E.,  
P L on W. face, from which  
A mesquite, 14 ins. diam., brs. S. 80° E., 7 lks. dist., marked B F NO 3 15 1/2 M B T.  
A mesquite, 14 ins. diam., brs. N. 60 1/4° W., 143 lks. dist., marked T 21 S R 13 E S 30 15 1/2 M B T,  
From this cor.  
House brs. E. 2.00 chs.  
Dome of Mission N. 10° 35' E. *as*

45.70 *OK* *as determined by the Survey of general*  
Intersect line bet. secs. 30 and 31, T. 21 S. R. 13 E., at a point from which the 1/4 sec. cor. brs. S. 89° 46' W., 5.92 chs. dist.  
Set a malpais stone, 21 X 8 X 6 ins., 15 ins. in the ground, for the closing cor. of secs. 30 and 31, marked  
C C on W.,  
B F NO 3 on E.,  
30 on N.,  
31 on S. face, from which  
A mesquite, 6 ins. diam., brs. S. 39 1/2° W., 68 lks. dist., marked T 21 S R 13 E S 31 B T, and a  
Mesquite, 7 ins. diam., brs. N. 60° W., 9 lks. dist., marked T 21 S R 13 E S 30 B T,

53.00 Leave Santa Cruz Bottom and heavy timber; ascend.  
65.10 Dry wash 15 lks. wide course S.E. Ascend steeper.  
70.00 Top; leave dense brush, thence over level land.  
80.00 Set a sandstone, 28 X 10 X 6 ins., 21 ins. in the ground, for the 16 mile cor. marked  
16 M. on N.,  
B F NO 3 on E.,  
P L on W. face, and raise a mound of stone, 3 ft. base, 2 ft. high, E. of cor. Pits impracticable.

*For this mile see supplemental notes page 2*

*200 ft. high  
300 ft. base  
Cuba*

WEST BOUNDARY OF BICA FLOAT NO. 3.

chains

Land, level and rolling,  
Soil; sandy loam, gravelly and stony; 2nd, 3rd and 4th  
rate.  
Timber; mesquite.  
Undergrowth; mesquite, besota and bachata.  
Heavily timbered or land covered with dense brush 70.00 chs.

November 13, 1906.  
November 22: At 8 h. 46am., 1.m.t., I set off 31° 34'  
N. on the lat. arc; and 20° 04' S. on the decl. arc;  
and determine a true meridian with the solar at the 16  
mile cor.

Thence, I run

S. 0° 3' 11" E. on the 17th mile.

Over level land.

Descend; brs. E. and W.

Dry wash 30 lks. wide course E. Enter draw and heavy  
mesquite timber.

Leave draw and heavy timber; ascend gradually.

Top of bank brs. E. and W. ascend.

Set a malpais stone, 28 X 10 X 8 ins., 21 ins. in the  
ground, for the 16½ mile cor., marked

16½ M on N.,

B F NO 3 on E.,

P L on W. face, and raise a mound of stone, 3 ft. base,  
2½ ft. high, E. of cor., from which

Cayetano Peak, Sqn Cayetano Mountains, brs. S. 60° 45' E.

Waldeck Peak, Santa Rita Range, brs. N. 29° 10' E.,

Top of E. slope of ridge brs. N and S., descend.

Intersect line bet secs. 6 and 31, S. bdy. of Tp 21 S.,

R. 13 E., at a point from which the ½ sec. cor. brs.

S. 89° 50' W., 5.53 chs. dist.

Set a malpais stone, 18 X 10 X 7 ins., 12 ins. in the  
ground, for closing cor. of secs. 31 and 6, marked

C C on W.,

B F NO 3 on E.,

31 on N.,

6 on S. face, and raise a mound of stone, 3 ft. base, 2  
ft. high, W. of the cor. Pits impracticable.

Dry wash 20 lks. wide course E., ascend.

Top brs. E. and W.

Descend brs. E. and W.

Enter draw course E.

Dry wash 20 lks. wide course E.N.E.

Leave draw; ascend.

Spur, extending N.E.; descend.

Set a sandstone, 28 X 8 X 6 ins., 21 ins. in the ground,  
for the 17th mile cor., marked

17 M on N.,

B. F No. 3 on E.,

P. L on W. face and raise a mound of stone, 3 ft. base,  
2 ft. high, E. of cor. Pits impracticable. From this c

corner

Catalina Paek brs. N 11° 41' E.,

Pine Peak, Santa Rita Range, brs. N. 40° 55' E.

Land; rolling and level.

Soil; gravelly and stony; 3rd and 4th rate.

Timber; mesquite.

Heavily timbered land 10.30 chs.

November 22: At this cor. I set off 20° 07' S., on the  
decl. arc; and at 11 h. 46 m. 1.m.t., observe the sun on  
the meridian; the resulting lat. is 31° 35' N., or within  
1' of the proper lat.

Thence S. 0° 3' 11" E. on the 18th mile.

Over mountainous land, descending through dense mesquite  
brush.

Descend abruptly 60 ft.

Dry wash, 30 lks. wide, course E., then N.E. Enter draw.

Leave draw; ascend through dense mesquite.

Trail, brs. N.E. and S.W.

Intersect the S.W. boundary of the Tumacacori Private  
Land Grant (Fundo Legal) at a point from which Post V

13.00

16.80

27.10

29.20

40.00

41.00

45.34

47.80

49.60

54.60

57.00

64.40

69.00

75.00

80.00

10.30

11.30

13.70

18.23

30.32

For this mile  
see supplemental  
note page 2

For this mile  
see supplemental  
note page 2

WEST BOUNDARY OF BACA FLOAT NO. 3.

chain s

of said Grant brs. S. 25° 42' E., 594.30 chs. dist.  
 Set a granite stone, 24 X 8 X 8 ins., 18 ins. in the ground, for the closing corner of the Baca Float No. 3, marked  
 T C on N.,  
 B F NO 3 on the E.,  
 C C on S. face, and raise a mound of stone, 3 ft. base, 2 ft. high, S. of cor. Pits impracticable.

33.60 Ridge brs. N.E. and S.W.  
 38.80 Small wash course E.; ascend.  
 40.00 Set a sandstone, 24 X 8 X 8 ins., 18 ins. in the ground, for the 17 1/2 mile cor., marked  
 17 1/2 M on the N.,  
 B F NO 3 on the E.,  
 P L on the W. face, and raise a mound of stone, 3 ft. base, 2 1/2 ft. high, N.E. of cor. From this cor. A mesquite, 5 ins. diam., brs. N. 86 1/2° W., 191 lks. dist., marked T 22 S R 13 E S 6 17 1/2 M B T. No other trees within limits. Pits impracticable.

43.00 Ridge brs. E. and W.; descend.  
 44.95 Intersect line bet. secs. 6 and 7 <sup>as described by the Survey General</sup> at a point from which the 1/2 sec. cor. brs. S. 89° 53' E., 5.19 chs. dist.  
 Set a malpais stone, 18 X 6 X 6 ins., 12 ins. in the ground, for the closing cor. of secs. 6 and 7, marked  
 C C on the W.,  
 B F NO 3 on the E.,  
 6 on the N.,  
 7 on the S. face, and raise a mound of stone, 3 ft. base, 2 ft. high, W. of cor. Pits impracticable.

46.60 Descend abruptly 80 ft.  
 48.00 Deep gulch 30 lks. wide course E., begin steep ascent.  
 54.60 Ridge brs. E. and W.; descend.  
 59.40 Descend abruptly 120 ft.  
 62.60 Deep gulch, 30 lks. wide, course E.; ascend steep.  
 67.70 Spur, extends E.; descend.  
 77.60 Gulch, 30 lks. wide course E.; ascend.  
 80.00 Set a malpais stone, 21 X 12 X 6 ins., 15 ins. in the ground, for the 18 mile cor., marked  
 18 M on N.,  
 B F NO 3 on E.,  
 P L on W. face, and raise a mound of stone, 3 ft. base, 2 1/2 ft. high, N. of cor. Pits impracticable.  
 Land; mountainous.  
 Soil; gravelly and stony; 3rd and 4th rate.  
 Timber; scattering mesquite and palo verde.  
 Undergrowth; mesquite and tesotillo.  
 Mountainous or land covered with undergrowth 80.00 chs.

November 22, 1905  
 November 23: At 9 h. a.m., l.m.t.; I set off 31° 32' N. on the lat. arc; and 20° 17' S. on the decl. arc; and determine a true meridian with the solar at the 18 mile cor.

Thence I run  
 S. 0° 3' 11" E., on the 19th mile.  
 Over mountainous land; ascending.

1.00 Spur, extending E.; descend.  
 9.40 Gulch, 60 lks. wide, course E.; ascend.  
 11.20 Spur, extending E.; descend.  
 11.97 Trail bears E. and W.  
 21.20 Dry wash, 30 lks. wide, course S.E. Enter crooked canyon.  
 24.20 Leave canyon; ascend.  
 37.00 Foot of cliff, 80 ft. high.  
 38.00 Top and ascend.  
 40.00 Set a malpais stone, 24 X 10 X 6 ins., 18 ins. in the ground, for the 18 1/2 mile cor., marked  
 18 1/2 M on the N.,  
 B F NO 3 on the E.,  
 P L on the W. face, and raise a mound of stone, 3 ft.

For this mile see supplemental notes page 4.

WEST BOUNDARY BACA FLOAT NO. 3.

chains	base, 2 ft. high $\bar{E}$ N. of cor. Pits impracticable.
41.00	Top, brs. N.E. and S.W.
45.93	Intersect line bet. secs. 7 and 18, T. 22 S., R. 13 E. at a point from which the $\frac{1}{4}$ sec. cor. <sup>as described by the Surveyor General</sup> $S. 78^{\circ} 51'$ W., 5.91 chs. dist.
	Set a malpais, 18 X 8 X 5 ins., 12 ins. in the ground, for the closing cor. of secs. 7 and 18, marked C C on the W., B F NO. 3 on the E., 7 on the N., and 18 on the S. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
	From this cor. A white cabin on the west slope of the San Cayetano Mts. brs. N. $87^{\circ} 20'$ E., and A tunnel on the W. slope of the San Cayetano Mts., brs. N. $89^{\circ} 25'$ E.
47.80	Descend, brs. N.E. and S.W.
49.54	Trail, brs. N.E. and S.W.
57.35	Dry wash, 30 lks. wide, course N.E.
58.00	Dry wash, 15 lks. wide, course N.E.; ascend.
74.00	Spur extending N.E.; descend.
80.00	Set a malpais stone, 21 X 14 X 12 ins., 16 ins. in the ground, for the 19th mile cor., marked 19 M on the N., B F NO 3 on the E., and P L on the W. face, and raise a mound of stone, 3 ft. base, 2 ft. high $\bar{E}$ N. of cor. Pits impracticable. Land; mountainous. Soil; gravelly and stony; 3rd and 4th rate. Timber; a few mesquite. Undergrowth; mesquite and tesota. Mountainous land, 80.00 chs. Nov. 23: At this cor. I set off $20^{\circ} 19'$ S. on the decl. arc, and at 11 h $45$ M $1$ m.t., I observe the sun on the meridian; the resulting lat. is $31^{\circ} 30'$ N., or within 1' of the proper lat.
	thence S. $0^{\circ} 3' 11''$ E. on the 20th mile. Over mountainous land; descending.
1.80	Small gulch course S.E.; ascend.
5.50	Spur extends N.E.; descend.
9.30	Gulch, 20 lks. wide, course E., ascend.
16.00	Spur extends E., descend.
23.30	Gulch 15 lks. wide, course N.E.; ascend.
27.80	Trail brs. N.E. and S.W.
27.90	Top brs. E and W.; descend.
39.50	Set a malpais stone, 24 X 10 X 8 ins., 18 ins. in the ground, for witness cor. to the 19 $\frac{1}{2}$ mile cor., marked W C 19 $\frac{1}{2}$ M on N., B F NO 3 on E., P L on the W. face, from which An oak, 14 ins. diam., brs. S. $37\frac{1}{2}^{\circ}$ E., 202 $\frac{1}{2}$ lks. dist., marked W C B F NO 3 19 $\frac{1}{2}$ M B T., A mesquite, 5 ins. diam., brs. S. $46\frac{1}{2}^{\circ}$ W., 177 lks. dist., marked T 22 S., R 13 E S 18 W C 19 $\frac{1}{2}$ M B T., and raise a mound of stone, 2 ft. base, 2 ft. high $\bar{E}$ N. of cor.
40.00	Falls in gulch, 25 lks. wide course N.E.; ascend. <sup>as des.</sup>
44.04	Intersect line bet. secs. 18 and 19, T. 22 S., R. 13 E. at a point from which the $\frac{1}{4}$ sec. cor. <sup>as described by the Surveyor General</sup> $S. 89^{\circ} 46'$ W., 5.60 chs. dist.
	Set a malpais, 18 X 10 X 6 ins., 12 ins. in the ground, for the closing cor. of secs. 18 and 19, marked C C on the W., B F NO 3 on the E., 18 on the N., 19 on the S. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
45.20	Spur extends, E.; descend.
49.70	Gulch, 25 lks. wide, course N.E.; ascend.
55.00	Top, brs. E. and W.

For this millage see supplemental notes page 5.

WEST BOUNDARY BACA FLOAT NO 3.

chains	
56.70	Trail brs. E. and W.
59.70	Descend, brs. E. and W.
65.30	Small gulch course S.E.; ascend.
73.00	Top of S.E. slope of spur; descend.
80.00	Set a malpais, 24 X 10 X 8 ins., 18 ins. in the ground, for the 20 mile cor., marked 20 M on the N., B F NO 3 on the E., P.L on the W. face, from which A mesquite, 5 ins. diam., brs. S. 14° E., 156 lks. dist., marked B F NO 3 20 M B T. No other trees within limits. Raise a mound of stone, 3 ft. base, 2 ft. high, N. of cor. Pits impracticable. Land, mountainous and level. Soil; gravelly and stony; 3rd and 4th rate. Timber; a few oak and mesquite. Undergrowth; mesquite. Mountainous land, 70.50 chs.
	November 23, 1905. November 24; At 8 h. 30 m., 1.m.t., I set off 31° 30' N. on the lat. arc; and 20° 29' S. on the decl. arc; and determine a true meridian with the solar at the 20 mile cor.
	Thence I run S 0° 3' 11" E., on the 21st mile. Over mountainous land; descending.
8.20	Gulch 160 lks. wide course S.E.; ascend.
13.70	Sharp spur extending E., descend.
19.00	Enter scattering mesquite timber and dense brush, brs E and W.
20.00	Enter Peck's Canyon, course E.
24.55	Road brs. E and W.
28.30	Dry wash 30 lks. wide course E.
32.70	Leave canyon, timber and brush; ascend.
37.00	Top brs. E and W., thence over level land.
40.00	Set a malpais stone, 21 X 10 X 8 ins., 16 ins. in the ground, for the 20 1/2 mile cor., marked 20 1/2 M on the N., B F NO 3 on the E., P L on the W. face, from which A mesquite 6 ins. diam., brs. N. 57 1/2° E., 240 lks. dist., marked B F NO 3 20 1/2 M B T., A mesquite, 6 ins. diam., brs. N. 68 1/2° W., 276 lks. dist., marked T 22 S R 13 E S 19 20 1/2 M B T.
44.69	Intersect line bet. secs. 19 and 30. T. 22 S. R. 13 E. at a point from which the 1/2 sec. cor. brs. S. 89° 42' W., 5.12 chs. dist. Set a sandstone, 18 X 10 X 6 ins., 12 ins. in the ground, for the closing cor. of secs. 19 and 30, marked C C on the W., B F NO 3 on the E., 19 on the N., 30 on the S. face, dig pits, 24 X 18 X 12 ins. crosswise on each line, N. and S., 3 ft. and W. of stone 7 ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, W of cor.
48.00	Ascend, brs. E. and W.
77.80	Ridge, brs. N.E. and S.W.; descend.
79.30	Trail brs. N.E. and S.W.
80.00	Set a malpais, 21 X 14 X 6 ins., 16 ins. in the ground, for the 21st mile cor., marked 21 M on the N., B F NO 3 on the E., P L on the W. face, from which A mesquite, 5 ins. diam., brs. N. 13° E., 34 lks. dist. marked B F NO 3 21 M B T. No other trees within limits. Raise a mound of stone, 3 ft. base, 2 ft. high NE of cor. Pits impracticable. From this cor. A round butte brs. N. 18° 45' W. Land; mountainous and level.

*For this mile see supplement notes Page 5.*

WEST BOUNDARY OF BACA FLOAT NO 3.

chains

Soil; sandy and gravelly loam; and stony; 2nd, 3rd and 4th rate,

Timber; scattering mesquite some janos in the canyons. Undergrowth; mesquite, tesco and hecota brush.

Mountainous land or land covered with dense underbrush 69.00 chs.

November 24: At this cor. I set off 20° 31' S., on the decl. arc; and at 11.41 a.m., l.m.t., I observe the sun on the meridian; the resulting lat. is 31° 30' N., or within 1' of the proper lat.

Thence I run S. 0° 3' 11" E. on the 22nd mile, Over mountainous land; descending.

Gulch 15 lks. wide course N.E.; ascend.

Spur extending N.E.; descend.

Gulch 80 lks. wide course N.E.; ascend.

Set a malpais, 24 X 14 X 12 ins., 18 ins., in the ground, for the 21 1/2 mile cor., marked

21 1/2 M on the N.,

B F NO 3 on the E.,

P L on the W. face, and raise a mound of stone, 3 ft. base, 2 ft. high, N.E. of cor. Pits impracticable.

Ridge brs. N.E. and S.W.; descend.

Intersect line bet. secs. 30 and 31, T. 22 S., R. 13 E. at a point from which the 1/2 sec. <sup>as described by the surveyor's general</sup> cor. brs. N. 89° 49' W.,

5,89 chs. dist.

Set a malpais, 18 X 8 X 8 ins., 12 ins. in the ground, for the closing cor. of secs. 30 and 31, marked

C C on the W.,

B F NO 3 on the E.,

30 on the N.,

31 on the S. face, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor. Pits impracticable.

Gulch 31 lks. wide course N.E., ascend.

Spur extends N.E.; descend.

Trail brs. N.E. and S.W.

Gulch 80 lks. wide course N.E.; ascend.

Set a malpais, 24 X 8 X 8 ins., 18 ins. in the ground, for the 22 mile cor., marked

22 M on the N.,

B F NO 3 on the E.,

P L on W. face, and raise a mound of stone, 3 ft. base, 2 ft. high, N.E. of cor. Pits impracticable.

From this cor.

Thum Butte, Atacosa Range, brs. S. 89° 35' W.

Helmet Peak brs. N. 6° W.

Land, mountainous.

Soil; gravelly and stony; 3rd and 4th rate.

Timber; oak in gulches.

Mountainous land 80.00 chs.

November 24, 1905.

November 25: At 9 h., a.m., l.m.t., I set off 31° 29' N. on the lat. arc; and 20° 41' S. on the decl. arc; and determine a true meridian at the 22 mile cor., with the solar.

Thence I run

S. 0° 3' 11" E. on the 23rd mile.

Over mountainous land; descending.

Road brs. N.E. and S.W.

Gulch 30 lks. wide course N.E.; ascend.

Ridge brs. E. and W.; descend.

Trail brs. E. and W.

Head of gulch, course S.E.; ascend.

Spur extending S.E.; descend.

Set a granite stone, 24 X 14 X 8 ins., 18 ins. in the ground, for the 22 1/2 mile cor., marked

22 1/2 M on the N.,

B F NO 3 on the E.,

P L on the W. face, from which

A mesquite, 5 ins. diam., brs. S. 13° E., 102 lks. dist., marked B F NO 3 22 1/2 M B T.,

For this mile see supplemental notes page 6.

7.80  
19.60  
30.80  
40.00

44.20  
45.28

51.00  
55.40  
58.95  
69.70  
80.00

For this mile see supplemental notes page 7.

2.70  
13.75  
22.00  
23.00  
27.00  
33.00  
40.00



WEST BOUNDARY OF BACA FLOAT NO. 3.

chains

A mesquite, 5 ins. diam., brs. N. 29 $\frac{1}{2}$ ° W, 70 lks. dist., marked T 22 S R 13 E S 31 22 $\frac{1}{2}$  M B T.,  
 Raise a mound of stone, 3 ft. base, 2 ft. high, <sup>E</sup>W. of cor. Pits impracticable.  
 40.60 Gulch 40 lks. wide course S.E.; ascend.  
 45.76 Intersect line bet. secs. 6 and 31 on the S. bdy. of <sup>as described by the survey journal</sup> T. 22 S., R. 13 E., at a point from which the  $\frac{1}{4}$  sec. cor. brs. west 5.80 chs. dist.  
 Set a malpais stone, 18 X 8 X 6 ins., 12 ins. in the ground, for the closing cor. of secs. 31 and 6, marked C C on W., B F NO 3 on E., 31 on N., 6 on S. face, and raise a mound of stone, 3 ft. base, 2 ft. high, W. of cor. Pits impracticable.  
 47.20 Spur extending E.; descend.  
 52.46 Trail brs. N.W. and S.E.  
 59.30 Gulch 30 lks. wide course S.E.; ascend.  
 65.00 Spur extending E., descend.  
 77.30 Gulch 30 lks. wide course N.E.; ascend.  
 80.00 Set a malpais stone, 24 X 14 X 8 ins., 18 ins. in the ground, for the 23 mile cor., marked

23 M on N., B. F NO 3 on E., P L on W. face, from which  
 An oak, 12 ins. diam., brs. N. 79° 45' E., 107 lks. dist., marked B F NO 3 23 M B T.,  
 An oak, 6 ins. diam.; brs. S. 6° 45' E., 26 lks. dist., marked B. F NO 3 23 M B T.,  
 An oak, 5 ins. diam., brs. S. 30° W., 11 lks. dist., marked T 23 S R 13 E S 6 23 M B T.,  
 An oak, 14 ins. diam., brs. N. 29° 15' W., 109 lks. dist., marked T 23 S R 13 E S 6 23 M B T.; and raise a mound of stone, 3 ft. base, 2 ft. high, <sup>E</sup>W. of cor. Pits impracticable.  
 Land; mountainous.  
 Soil: gravelly, stony and rocky; 3rd and 4th rate.  
 Timber; oak and mesquite in gulches.  
 Mountainous land 80.00 chs.  
 November 25: At this cor. I set off 20° 45' S. on the decl. arc; and at 11:45 a.m., 1.m.t., I observe the sun on the meridian; the resulting lat. is 31° 28' N., or within 1' of the proper lat.

Thence S. 0° 3' 11" E. on the 24th mile.  
 Over mountainous land; ascending through scattering oak timber and mesquite brush.  
 8.00 Top of W. slope of ridge <sup>and S.</sup>; descend.  
 20.00 Foot brs. E. and W.; ascend.  
 21.95 Road brs. E. and W.  
 33.00 Top of west slope of hill; descend.  
 35.50 Foot brs. E. and W.; ascend.  
 35.52 Trail brs. N.W. and S.E.  
 40.00 Set a malpais stone, 24 X 10 X 8 ins., 18 ins. in the ground, for the 23 $\frac{1}{2}$  mile cor., marked

23 $\frac{1}{2}$  M on the N., B F NO 3 on the E., P L on the N. face, from which  
 A mesquite, 10 ins. diam., brs. S. 47° 45' E., 302 lks. dist., marked B F NO 3 23 $\frac{1}{2}$  M B T. No other trees within limits.  
 Raise a mound of stone, 3 ft. base, 2 ft. high, <sup>E</sup>W. of cor. Pits impracticable.

45.70 Intersect line bet. secs. 6 and 7, T. 23 S., R. 13 E., at a point from which the  $\frac{1}{4}$  sec. cor. <sup>as described by the survey journal</sup> brs. S. 89° 75' W., 5.70 chs. dist.  
 Set a granite stone, 18 X 10 X 6 ins., 12 ins. in the ground, for the closing cor. of secs. 6 and 7, marked C C on W., B F NO 3 on E., 6 on N., 7 on S. face, and raise a mound of stone, 3 ft. base, 2 ft. high, W. of cor. Pits impracticable.

*For this mile see supplemental notes page 7.*

WEST BOUNDARY OF BACA FLOAT NO. 3.

chains	
51.50	Root of cliff 60 ft. high.
51.80	Top and ascend.
59.00	Ridge brs. E. and W.; descend.
69.00	Begin steep descent over boulders.
80.00	Set a malpais stone, 30 X 10 X 8 ins., 22 ins. in the ground, for the 24th mile cor., marked 24 M on N.,
	B F NO 3 on E.,
	P L on W. face, from which
	An oak, 20 ins. diam., brs. N. 11 $\frac{1}{2}$ ° E., 23 lks. dist., marked B F NO 3 24 M B T,
	An oak, 14 ins. diam., brs. S. 61 $\frac{1}{2}$ ° E., 71 lks. dist., marked B F NO 3 24 M B T,
	An oak, 18 ins. diam., brs. S. 20 $\frac{1}{2}$ ° W., 275 lks. dist., marked T 23 S R 13 E S 7 24 M B T,
	An oak, 14 ins. diam., brs. N. 60° 45' W., 353 lks. dist., marked T 23 S R 13 E S 7 24 M B T, and raise a mound of stone, 2 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor.
	Land; gently rolling.
	Soil; gravelly, stony and rocky; 3rd and 4th rate.
	Timber; scattering oak and mesquite.
	Undergrowth; mesquite.
	Mountainous lands 80.00 chs.
	November 25, 1905
	November 26: At 8 h. 45 m. A.M. I set off 31° 27' N. on the lat. arc; and 20° 53' S., on the decl. arc; and determine a true meridian with the solar at the 24th mile cor.
	thence I run
	S. 0° 5' 11" E., on the 25th mile.
	Over mountainous land, descending through scattering timber.
2.70	Gulch 40 lks. wide course E., ascend.
6.00	Ridge brs. E and W.; descend.
18.00	Gulch 30 lks. wide course S.E.; ascend.
22.00	Spur extending S.E.; descend.
31.50	Draw 260 lks. wide course S.E.; ascend.
38.60	Top brs. E. and W.; descend.
<del>39.40</del>	<del>Shack brs. E. about 5 chs. dist.</del>
40.00	Set a granite stone, 24 X 14 X 8 ins., 18 ins. in the ground, for the 24 $\frac{1}{2}$ mile cor., marked 24 $\frac{1}{2}$ M on N.,
	24 $\frac{1}{2}$ M on N.,
	B F NO 3 on E.,
	P L on W. face, from which
	A mesquite, 18 ins. diam., brs. N. 41 $\frac{1}{2}$ ° E., 223 lks. dist., marked B F NO 3 24 $\frac{1}{2}$ M B T
	A mesquite, 12 ins. diam., brs. N. 58° 45' W., 369 lks. dist., marked T 23 S R 13 E S 7 24 $\frac{1}{2}$ M B T, and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, N.E. of cor. Pits impracticable.
45.30	Enter Atacosa Canyon course N.E.
45.62	Intersect line bet. secs. 7 and 18. T. 23 S. R. 13 E. at a point from which the <sup>1/2</sup> sec. brs. N. 89° 51' W. <sup>is described by the section general</sup>
	5.81 chs. dist.
	Set a sandstone, 18 X 14 X 10 ins., 12 ins. in the ground, for the closing cor. of secs. 7 and 18, marked
	C C on the W.,
	B F NO 3 on E.,
	7 on N.,
	18 on S. face, from which
	A mesquite, 5 ins. diam., brs. S. 28 $\frac{1}{2}$ ° W., 227 lks. dist., marked T 23 S R 13 E S 18 B T and
	A mesquite, 7 ins. diam., brs. N. 4° 45' W., 34 lks. dist., marked T. 23 S R 13 E S 7 B T., and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor.
53.00	Road brs. N.E. and S.W.
71.40	Dry wash 60 lks. wide course N.E.
72.88	Set a sandstone, 28, X 16 X 8 ins., 21 ins. in the ground, for the S.W. cor. of the Baca Float No. 3, marked with a traingle ( $\Delta$ ) on top.
	SW COR B F No 3 on N.E. face,
	P L on S.W. face, from which

*For this 1/2 mile  
all supplemental  
notes page 8*

WEST BOUNDARY OF BACA FLOAT NO. 3.

chains

A walnut, 10 ins. diam., brs. N. 82° 45' E., 25 lks. dist., marked B F NO 3 S W COR B T.,  
 A walnut, 14 ins. diam., brs. N. 35° W., 60 lks. dist., marked T 23 S R 13 E S 18 S W COR B T.,  
 A jano, 6 ins. diam., brs. S. 37 1/2° E., 136 lks. dist., marked T 23 S R 13 E S 18 S W COR B T.,  
 A walnut, 6 ins. diam., brs. S. 30° W., 218 lks. dist., marked T 23 S R 13 E S 18 S W COR B T., and raise a mound of stone, 3 ft. base, 2 ft. high, N.E. of cor. Pits impracticable.

From this cor  
 Mt. Hopkins, Santa Rita Range, brs. N. 28° 35' E.  
 Thumb Butte, Atacosa Range, brs. S. 65° W.  
 At this cor. of the Baca Float No 3, lat. 31° 26' N., long. 111° 4' W., I set off 20° 56' S., on the decl. arc; and at 2 h. 45 m., l.m.t., I determine with the solar a meridian and mark a point thereof on a stone firmly set in the ground about 5 chs. N. of the cor.

November 26, 1905.

November 27: At 03h. m., l.m.t., by my watch which is identical with the local mean time, I observe Polaris at its Western elongation in accordance with the Manual of Instructions and mark a point in the line thus determined on a peg driven in the ground about 5 chs. N. of my station.

November 27: At 8 h. 30 m., a.m., l.m.t., I lay off the azimuth of Polaris 1° 24' to the W. and mark the meridian thus determined by cutting a small groove on the stone set Nov. 27th., on which the meridian falls .2 ins. west of the mark determined by the solar on Nov. 26th.

At 9 h., a.m., l.m.t., I set off 31° 26' N. on the lat. arc; and 21° 04' on the decl. arc; and determine a true meridian with the solar at same cor. On the meridian thus determined I mark a cross on the rock already set 5 chs. N. of my station. This cross falls .1 inch west of the meridian established by the Polaris observation. The solar attachment by p.m. and a.m. observations defines the positions for the meridian respectively 1 1/2" E. and 6" W. of the meridian established by Polaris observation. therefore I conclude that the adjustments of the instruments are satisfactory.

The magnetic bearing of the true meridian at 9 h. 10 m. a.m. is N. 13° 05' W. The angle thus determined gives the magnetic declination 13° 05' E.

Thence East SOUTH BOUNDARY OF BACA FLOAT NO. 3.

Thence East on the 25th mile.  
 Over level land, through oak timber.

- 1.15 Dry wash 60 lks. wide course N.E.
- 2.80 Ascend; brs. N.E. and S.W.
- 3.30 Top of bank 40 ft. high; ascend.
- 7.12 Completion of the 25th mile.

Set a malpais stone, 28 X 8 X 8 ins., 21. ins. in the ground for the 25 mile cor., marked

25 M on W.  
 B F NO 3 on N.  
 P L on S. face, from which  
 An oak, 5 ins. diam., brs. S. 78° E., 14 lks. dist., marked T 23 S R 13 E S 18 25 M B T,  
 An oak, 14 ins. diam., brs. S. 23 1/2° E., 27 lks. dist., marked T 23 S R 13 E S 18 25 M B T,  
 An oak, 5 ins. diam., brs. S 83° 45' W., 19 lks. dist., marked T 23 S R 13 E S 18 25 M B T,  
 An oak, 34 ins. diam., brs. N. 6 1/2° W., 60 lks. dist., marked B F NO 3 25 M B T, and raise a mound of stone, 3 ft. base, 2 1/2 ft. high, W. of cor.

Land; mountainous and level.  
 Soil; sandy and gravelly and stony; 3rd and 4th rate.  
 Timber; oak and scattering mesquite, a few walnuts and janos in the canyons.  
 Undergrowth; mesquite, tesota and bachata.  
 Mountainous land 45.30 chs.

## SOUTH BOUNDARY OF BACA FLOAT NO. 3.

chains	Thence east on the 26th mile. Over mountainous land, ascending through scattering oak timber.
6.40	Sharp spur extending N., descend.
10.45	Dry wash 20 lks. wide course N., ascend.
17.00	Begin ascent over bluffs.
26.00	Top of ridge 400 ft. above wash, brs. N.E. and S.W.; descend.
26.74	Intersect line bet. secs. 17 and 18, <sup>T. 23 S. R. 13 E.</sup> at a point from which the $\frac{1}{4}$ sec. cor. <sup>as described by the same survey</sup> brs. S. $0^{\circ} 3'$ E., 12.56 chs. dist. Set a sandstone, 18 X 10 X 8 ins., 12 ins. in the ground, for the closing cor. of secs. 17 and 18, marked C C on the S., B F NO 3 on the N., 17 on the E., 18 on the W. face, and raise a mound of stone, 21 ft. base, 2 ft. high, S. of cor. Pits impracticable.
36.10	Dry wash 30 lks. wide course N., ascend.
37.00	Trail brs. N. and S.
40.00	Set a sandstone, 24 X 10 X 6 ins., 18 ins. in the ground, for the 25 $\frac{1}{2}$ mile cor., marked 25 $\frac{1}{2}$ M on the W., B F NO 3 on the N., P L on the S. face, from which An oak, 10 ins. diam., brs. S. $55^{\circ}$ W., 153 lks. dist., marked T 23 S R 13 E S 17 25 $\frac{1}{2}$ M B T, An oak, 6 ins. diam., brs. N. $25^{\circ}$ W., 122 lks. dist., marked B F NO 3 25 $\frac{1}{2}$ M B T, and raise a mound of stone, 3 ft. base, 2 ft. high, W. of cor.
47.00	Ridge brs. N.E. and S.W.; descend.
58.00	Small gulch course S.E.; ascend.
63.40	Spur extending S.E.; descend.
73.00	Dry wash 30 lks. wide course N.; ascend.
78.40	Spur extending N.W., descend. 16 ins.
80.00	Set a malpais stone, 21 X 18 X 14 ins., in the ground, for the 26th mile cor., marked 26 M on the W., B F NO 3 on the N., P L on the S. face, from which An oak, 7 ins. diam., brs. N. $4\frac{1}{2}^{\circ}$ E., 96 lks. dist., marked B F NO 3 26 M B T, An oak, 14 ins. diam., brs. S. $44\frac{1}{2}^{\circ}$ E., 44 lks. dist., marked T 23 S R 13 E S 17 26 M B T, An oak, 12 ins. diam., brs. S. $24\frac{1}{2}^{\circ}$ W., 18 lks. dist., marked T 23 S R 13 E 26 M B T, An oak, 7 ins. diam., brs. N. $46\frac{1}{2}^{\circ}$ W., 50 lks. dist., marked B F NO 3 26 M B T.
	Land; mountainous. Soil; gravelly, stony and rocky; 3rd and 4th rate. Timber; oak. Undergrowth; mesquite. Mountainous land 80.00 chs. November 27: At this cor. I set off $21^{\circ} 06'$ S., on the decl. arc; and at $11^{\circ} 48$ a.m., l.m.t., I observe the sun on the meridian; the resulting lat. is $31^{\circ} 26'$ N., or within 1' of the proper lat.
	Thence East on the 27th mile. Over mountainous land; descending through scattering oak timber.
.85	Small wash course N.W.
6.25	Spur extending N.E.; descend.
19.90	Dry wash 20 lks. wide course N.; ascend.
26.75	Ridge brs. N.E. and S.W., and Trail brs. N.E. and S.W., and Intersect line bet. secs. 16 and 17, <sup>T. 23 S. R. 13 E.</sup> at a point from which the $\frac{1}{4}$ sec. cor. <sup>as described by the same survey</sup> brs. S. $19^{\circ} 2'$ E., 12.65 chs. dist. Set a granite stone, 18 X 12 X 6 ins., 12 ins. in the ground, for the closing cor. of secs. 16 and 17, marked

SOUTH BOUNDARY BACA, FLOAT NO 3.

chains

C C on S.,  
 B F NO 3 on N.,  
 16 on E.,  
 17 on W. face; and raise a mound of stone, 3 ft. base,  
 2 ft. high, S. of cor. Pits impracticable. Descend.  
 40.00 Set a malpais stone, 28 X 8 X 8 ins., 22 ins. in the  
 ground, for the 26 $\frac{1}{2}$  mile cor., marked  
 26 $\frac{1}{2}$  M on W.

B F NO 3 on N.,  
 P L on S. face, from which  
 An oak, 14 ins. diam., brs. S. 81° E., 124 lks. dist.,  
 marked T 23 S R 13 E S 16 26 $\frac{1}{2}$  M B T,  
 An oak, 7 ins. diam., brs. S. 70 $\frac{1}{2}$ ° W., 212 lks. dist.,  
 marked T 23 S R 13 E S 16 26 $\frac{1}{2}$  M B T, and raise a mound  
 of stone, 3 ft. base, 2 ft. high, W. of cor.

November 27, 1905.

November 28: At 8 h. 40 m. a.m.t., I set off 31° 26' N.,  
 on the lat. arc; and 21° 15' S. on the decl. arc; and  
 determine a true meridian with the solar at the 26 $\frac{1}{2}$  mile  
 cor.

Thence I continue  
 East on the 27th mile.

50.00 Enter draw course N.

59.80 Dry wash 20 lks. wide course N.

60.30 Road brs. N. and S.

61.60 Dry wash 20 lks. wide course N.

63.60 Leave draw; begin steep ascent.

73.00 Top of ridge brs. N.N.E and S.S.W.

80.00 Set a sandstone, 24 X 10 X 10 ins., 18 ins. in the ground,  
 for the 27th mile cor., marked

27 M on the W.,

B F NO 3 on the N.,

P L on the S. face, from which

An oak, 10 ins. diam., brs. N. 50 $\frac{1}{2}$ ° E., 47 lks. dist.,  
 marked B F NO 3 27 M B T.

An oak, 12 ins. diam., brs. S. 60° E., 31 lks. dist.,  
 marked T 23 S R 13 E S 16 27 M B T.

An oak, 16 ins. diam., brs. S. 10° W., 100 lks. dist.,  
 marked T 23 S R 13 E S 16 27 M B T.

An oak, 14 ins. diam., brs. N. 37 $\frac{1}{2}$ ° W., 33 lks. dist.,  
 marked B F NO 3 27 M B T, and raise a mound of stone,  
 3 ft. base, 2 ft. high, W. of cor.

Land; mountainous and level.

Soil; gravelly and stony; 3rd and 4th rate.

Timber; oak in the draws and gulches.

Undergrowth; mesquite.

Mountainous land 66.40 chs.

November 28: At this cor. I set off 21° 17' S. on the  
 decl. arc; and at 4 h. 43 m. a.m.t., I observe the sun  
 on the meridian; the resulting lat. is 31° 26' N., or  
 within 1' of the proper lat.

Thence East on the 28th mile.

Over mountainous land, descending through scattering oak  
 timber.

.90 Gulch 10 lks. wide course N.E.; ascend.

2.65 Trail brs. N.E. and S.W.

3.30 Top of ridge brs. N.E. and S.W.; descend.

15.00 Gulch 30 lks. wide course S.E.; ascend.

26.33 Intersect line bet. secs. 15 and 16, T 23 S R 13 E.,  
 at a point from which the  $\frac{1}{4}$  sec. cor. brs. S. 0° 2' E.,  
 12.28 chs. dist.

Set a granite stone, 21 X 10 X 7 ins., 1.5 ins. in the  
 ground, for the closing cor. of secs. 15 and 16, marked

C C on the S.,

B F NO 3 on the N.,

15 on the E.,

16 on the W. face, from which

An oak, 12 ins. diam., brs. S. 18 $\frac{1}{2}$ ° E., 193 lks. dist.,  
 marked T 23 S R 13 E S 15 B T and

An oak, 12 ins. diam., brs. S. 46° W., 132 lks. dist.,  
 marked T 23 S R 13 E S 16 B T.

*as described by the surveyor General*

SOUTH BOUNDARY BACA FLOAT NO 3.

chains  
28.31

Intersect the S.W. line of the Calabassas Private Land Grant, (Estancia) at a point from which the Post V of the Fundo Legal brs. N. 43° 05' E., 92.61 chs. dist., and the traces of the post N.W. cor. of the Estancia with mound of stone in good condition, brs. S. 43° 05' W., 17.98 chs. dist..

Set a sandstone, 24 X 14 X 6 ins., 18 ins. in the ground, for the closing cor. of the Baca Float No. 3, marked C C on the W., C G on the S.

B F NO 3 on the N. face, from which

An oak, 24 ins. diam., brs. S. 14° W., 380 lks. dist., marked T 23 S R 13 E S 15 C G B T,

An oak, 24 ins. diam., brs. S. 62° W., 305 lks. dist., marked C G T 23 S R 13 E S 15 C G B T, and raise a mound of stone, 2 ft. base, 11 ft. high, W. of cor.

30.00 Spur extending S.E., descend.

38.00 Draw 130 lks. wide course S.E.; ascend.

40.00 Set a granite stone, 24 X 10 X 7 ins., 18 ins. in the ground, for the 27 1/2 mile cor., marked 27 1/2 M. on the W.

B F NO 3 on the N.;

P L on the S. face, and raise a mound of stone, 3 ft. base, 2 ft. high W. of cor. Pits impracticable.

45.00 Spur, extending S.E.; descend.

49.00 Enter Calabassas Canyon course N.E.

59.30 Dry wash 30 lks. wide course N.E.

62.40 Road brs. N.E. and S.W.

65.00 Leave canyon; ascend.

76.00 Spur extending N.; descend through mesquite timber.

79.00 Enter draw course N.N.E.

80.00 Set a granite stone, 24 X 10 X 10 ins., 18 ins. in the ground, for the 28 mile cor., marked 28 M on the W.

B F NO 3 on the N.,

P L on the S. face, from which

A mesquite, 6 ins. diam., brs. N. 16 1/2° E., 29 lks. dist., marked B F NO 3 28 M B T,

A mesquite, 6 ins. diam., brs. S. 40° E., 150 lks. dist., marked T 23 S R 13 E S 15 28 M B T,

A mesquite, 5 ins. diam., brs. S. 78° W., 37 lks. dist., marked T 23 S R 13 E S 15 28 M B T,

A mesquite, 6 ins. diam., brs. N. 30° W., 114 lks. dist., marked B F No 3 28 M B T.

Land; mountainous and level.

Soil; Sandy loam, gravelly and stony; 2nd, 3rd, 4th rate. Timber; mesquite and scattering oak.

Undergrowth; mesquite.

Mountainous land 63.00 chs.

November 28, 1905.

November 29: At 8 h. 40 m. a.m.t., I set off 31° 26' N., on the lat. arc; and 21° 25' S. on the decl. arc and determine a true meridian with the solar at the 28th mile cor.

Thence I run

East on the 29th mile, Over level land, through scattering timber and brush.

2.95 Road brs. N. and S.

4.80 Dry wash 40 lks. wide course N.

8.95 Road brs. N.W. and S.E.; leave draw; ascend.

12.20 Top brs. N. and S.; descend.

16.00 Draw 2 chs. wide course N., ascend.

18.00 Top, thence along N. slope of ridge.

25.56 Intersect line bet. secs. 14 and 15, T. 23 S. R. 13 E. at a point from which the 1/4 sec. cor. brs. S. 0° 1' E., 12.39 chs. dist., *General*

Set a sandstone, 18 X 8 X 6 ins., 12 ins. in the ground, for the closing cor. of secs. 14 and 15, marked

C C on S.,

B F NO 3 on N,

14 on E. and

15 on W. face from which

SOUTH BOUNDARY OF BACA FLOAT NO 3.

chains

An oak, 18 ins. diam., brs. S. 48° E., 100 lks. dist., marked T 23 S R 13 E S 14 B T., No other tree within limits.  
 Raise a mound of stone, 2 ft. base, 1 1/2 ft. high, S. of cor. Pits impracticable.  
 27.00 Descend.  
 30.00 Draw 1.00 ch. wide course N.W.; ascend.  
 40.00 Set a sandstone, 28 X 10 X 9 ins., 21 ins. in the ground, for the 28 1/2 mile cor., marked 28 1/2 M on the W., B F NO 3 on the N., and P L on S. face, from which  
 A mesquite, 9 ins. diam., brs. S. 58° 45' E., 312 lks. dist., marked T 23 S R 13 E S 14 28 1/2 M B T.  
 A mesquite, 13 ins. diam., brs. N. 3° W., 163 lks. dist., marked B F NO 3 28 1/2 M B T, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of cor.  
 41.00 Top of ridge brs. N.W. and S.E., descend.  
 54.00 Draw 130 lks. wide course S.E.; ascend.  
 63.00 Top of S. slope of ridge; descend.  
 69.00 Draw 1.00 chs. wide course S.E.; ascend.  
 78.00 Spur extending S.E.; descend.  
 80.00 Set a sandstone, 28 X 9 X 6 ins., 21 ins. in the ground, for the 29 mile cor., marked 29 M on W., B F NO 3 on N., P L on S. face, from which  
 An oak, 6 ins. diam., brs. N. 81 1/2° E., 57 lks. dist., marked B F NO 3 29 M B T,  
 An oak, 6 ins. diam., brs. S. 77 1/2° E., 90 lks. dist., marked T 23 S R 13 E S 14 29 M B T,  
 An oak, 7 ins. diam., brs. S. 69 1/2° W., 56 lks. dist., marked T 23 S R 13 E S 14 29 M B T,  
 An oak, 8 ins. diam., brs. N. 75 1/2° W., 19 lks. dist., marked B F NO 3 29 M B T, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of cor.  
 Land; rolling and level.  
 Soil; sandy loam, gravelly and stony; 2nd 3rd and 4th rate.  
 Timber; scattering oak and mesquite.  
 Undergrowth; mesquite.  
 November 29: At this cor. D set off 21° 27' S. on the decl. arc; and at 10h, 48m, 20s, l.m.t., observe the sun on the meridian; the resulting lat. is 31° 27' or within 1' of the proper lat.

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Thence I run East on the 30th mile.  
 Over rolling land; descending through scattering oak timber,  
 4.50 Enter draw course N.E.  
 6.30 Dry wash 30 lks. wide course N.E.  
 15.56 Road brs. N.E. and S.W.  
 18.00 Leave draw, thence over broken ground.  
 25.35 Intersect line bet. secs. 13 and 14, T. 23 S., R. 13 E. at a point from which the 1/4 sec. cor. brs. S. 0° 17' E., 12.26 chs. dist.  
 Set a sandstone, 21 X 7 X 6 ins., 15 ins. in the ground, for the closing cor. of secs. 13 and 14, marked C C on the S., B F NO 3 on the N., 13 on the E., 14 on the W. face, from which  
 An oak, 6 ins. diam., brs. S. 1° 45' E., 117 lks. dist., marked T. 23 S R 13 E S 13 B T.,  
 An oak, 8 ins. diam., brs. S. 15 1/2° W., 129 lks. dist., marked T 23 S R 13 E S 14 B T.,  
 27.95 Dry wash 10 lks. wide course N.E.  
 40.00 Set a sandstone, 24 X 12 X 12 ins., 18 ins. in the ground, for the 29 1/2 mile cor., marked 29 1/2 M on W., B F NO 3 on N., P L on S. face, from which  
 An oak, 7 ins. diam. brs. N 53 1/2° E., 182 lks. dist., marked B F NO 3 29 1/2 M B T.

ok

as shown by the survey general

SOUTH BOUNDARY BACA FLOAT NO. 3.

chains An oak, 9 ins. diam., brs. S. 51° E., 38 lks. dist., marked T 23 S R 13 E S 13 391 M B T, and raise a mound of stone, 3 ft. base, 12 ft. high, W. of cor.

42.70 Spur extending S.E.; descend.

43.60 Trail brs. N.E. and S.W.

61.00 Foot brs. N. and S. Enter mesquite timber and brush.

79.30 Road from Tucson to Nogales brs. N.W. and S.E.

80.00 Set a sandstone, 24 X 14 X 12 ins., 18 ins. in the ground, for the 30 th mile cor., marked 30 M on the W., B F NO 3 on the N., P L on the S. face, from which

A mesquite, 14 ins. diam., brs. N. 32 1/4° E., 35 lks. dist., marked B F NO 3 30 M B T,

A mesquite, 24 ins. diam., brs. S. 82° E., 273 lks. dist., marked T 23 S R 13 E S 13 30 M B T,

A mesquite, 12 ins. diam., brs. S. 73° W., 138 lks. dist., marked T 23 S R 13 E S 13 30 M B T,

A mesquite, 12 ins. diam., brs. N. 32 1/2° W., 58 lks. dist., marked B F NO 3 30 M B T, and raise a mound of stone, 3 ft. base, 2 ft. high, W. of cor.

Land; rolling, level and broken.

Soil; gravelly and stony; 3rd and 4th rate.

Timber; mesquite and scattering oak.

Undergrowth; mesquite.

November 29, 1905.

November 30: At 8 h. 40 m A.M., I set off 31° 26' N. on the lat. arc; and 21° 35' S., on the decl. arc; and determine a true meridian with the solar at the 30 mile cor.

Thence I run

East on the 31st mile

Over level land, through mesquite timber and dense brush.

1.80 Dry wash 30 lks. wide course N.N.E.

2.42 Long distance telephone line from Tucson to Nogales, brs. N. and S.

16.00 Descend.

18.00 Enter Potrero Canyon course N.

18.59 Wire fence brs. N. and S.

19.60 Potrero Creek 30 lks. wide, 9 ins. deep, rapid current. course N. Leave dense brush.

23.63 Wire fence brs. N.W. and S.E.

24.40 Middle of single track of the New Mexico and Arizona Railroad brs N.W. and S.E.

24.97 Telegraph line brs. N.W. and S.E.

25.17 Wire fence brs. N.W. and S.E.

25.20 Intersect line bet. secs. 13 and 18 on the East bdy. of T. 23 S., R. 13 E., at a point from which the 1 sec. cor. *as described by the Surveyor General* brs. South, 12.25 chs. dist.

Set a sandstone, 18 X 12 X 12 ins., 12 ins. in the ground, for the closing cor. of secs. 13 and 18, marked C C on the S., B F HNO 3 on N., 18 on E., 13 on W. face, from which

A mesquite, 7 ins. diam., brs. S. 27° E., 57 lks. dist. marked T. 23 S R 14 E S 18 B T,

A mesquite, 6 ins. diam., brs. S. 57 1/4° W., 44 lks. dist., marked T 23 S R 13 E S. 13 B T,

N. E. cor. of railroad concrete bridge brs. S. 24° W., 95 lks. dist.,

27.00 Leave canyon and mesquite timber; ascend.

38.00 North slope of round hill; thence over broken ground.

40.00 Set a sandstone, 24 X 12 X 12 ins., 18 ins. in the ground, for the 30 1/2 mile cor., marked 30 1/2 M on the W., B F NO 3 on the N., P L on the S. face, and raise a mound of stone, 3 ft. base, 2 ft. high, W. of cor. Pits impracticable.

62.00 Enter scattering oak timber brs. N. and S.

62.60 Trail brs. N. and S.



SOUTH BOUNDARY OF BACA FLOAT NO. 3.

chains

69.20  
80.00

Dry wash 15 lks. wide course N.W.  
 Set a porphyrite stone, 24 X 12 X 10 ins., 18 ins. in the ground, for the 31 mile cor. marked 31 M on W.,  
 B F NO 3 on N.,  
 P L on S. face, from which  
 An oak, 12 ins. diam., brs. N. 48° 45' E., 235 lks. dist., marked B F NO 3 31 M B T,  
 An oak, 12 ins. diam., brs. N. 36° 45' W., 310 lks. dist., marked B F NO 3 31 M B T,  
 An oak, 14 ins. diam., brs. S. 44° W., 336 lks. dist., marked T 23 S R 14 E S 18 31 M B T,  
 An oak, 12 ins. diam., brs. N. 9° 45' W., 181 lks. dist., marked B F NO 3 31 M B T.  
 Land; broken, level and rolling.  
 Soil; gravelly and stony; 3rd and 4th rate.  
 Timber; mesquite and oak.  
 Undergrowth; mesquite and tesota.

15.20  
25.00

Dense undergrowth 19.60 chs.  
 November 30P At this cor. I set off 21° 37' S. on the decl. arc; and at 11h, 41m, 1.4m l.m.t., observe the sun on the meridian; the resulting lat. is 31° 26' N. or identical with the proper lat.  
 These East on the 32nd mile.  
 Over gently rolling land, through scattering oak timber.  
 Dry wash 30 lks. wide course N.E.  
 Top of round hill brs. 3.60 chs. S., and  
 Intersect the line betw. secs. 17 and 18, T. 23 S., R. 14 E., at a point from which the  $\frac{1}{4}$  sec. cor., brs. S. 0° 3' E.,  
 12.10 chs. dist.

36.80  
37.70

Set a sandstone, 18 X 6 X 6 ins., 12 ins. in the ground, for the closing cor. of secs. 17 and 18, marked C C on S.,  
 B F NO 3 on N.,  
 17 on E.,  
 18 on W. face; from which  
 An oak, 6 ins. diam., brs. S. 3° 45' E., 21 lks. dist., marked T 23 S R 14 E S 17 B T,  
 An oak, 7 ins. diam., brs. S. 4° 45' W. 22 lks. dist., marked T 23 S R 14 E S 18 B T, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, S. of cor.,  
 Old road brs. N. and S.

40.00

Dry wash 30 lks. wide course N. Enter mesquite timber and dense brush course N.E. and S.W.  
 Set a sandstone, 28 X 12 X 6 ins., 21 ins. in the ground, for the 31 1/2 mile cor., marked 31 1/2 M on the W.,  
 B F NO 3 on the N.,  
 P L on the S. face, from which  
 A mesquite, 18 ins. diam., brs. N. 19° E., 89 lks. dist., marked B F NO 3 31 1/2 M B T,  
 A mesquite, 24 ins. diam., brs. S. 70° 45' W., 100 lks. dist., marked T 23 S R 14 E S 17 31 1/2 M B T.

40.15  
57.20  
65.00  
66.00  
75.20  
79.00  
80.00

Road brs. N.E. and S.W.  
 Dry wash 60 lks. wide course N.  
 House brs. N. about 30 chs. dist.  
 Dry wash, 30 lks. wide course N.N.E.  
 Road brs. N.E. and S.W.  
 Leave dense undergrowth, brs. N.E. and S.W.  
 Set a sandstone, 28 X 8 X 6 ins., 21 ins. in the ground, for the 32 mile cor., marked 32 M on the W.,  
 B F NO 3 on the N.,  
 P L on the S. face, from which  
 A mesquite, 40 ins. diam., brs. N. 25 1/2° E., 353 lks. dist., marked B F NO 3 32 M B T,  
 A mesquite, 12 ins. diam., brs. S. 4 1/2° E., 203 lks. dist., marked T 23 S R 14 E S 17 32 M B T,  
 A mesquite, 15 ins. diam., brs. N. 7 1/2° W., 80 lks. dist., marked B F NO 3 32 M B T, and raise a mound of stone, 3 ft. base, 2 ft. high, N. of cor. No other trees within limits.

chains

From this cor. and adobe house brs. N.  $251^{\circ}$  E., 6.30 chs. dist.

Round Butte, Atacosa Range, brs. N.  $45^{\circ} 05'$  W.

Land; gently rolling.

Soil, gravelly loam and stony; 2nd, 3rd, and 4th rate.

Timber; mesquite and scattering oak.

Undergrowth; mesquite and tesota.

Dense undergrowth 42.30 chs.

November 30, 1905.

December 1st: At 8 h. 40 m. a.m.t., I set off  $21^{\circ} 45'$  on the decl. arc; and  $31^{\circ} 26'$  N. on the lat. arc; and determine a true meridian with the solar at the 32 mile cor.

Thence I run

East on the 33 mile.

Over rolling land, ascending.

1.30 Spur extending N.; descend.

6.00 Dry wash 30 lks. wide course N., ascend.

9.00 Spur extending N.; descend.

14.00 Enter dense brush brs. N and S.

17.60 Enter Santa Cruz bottom, brs. N. and S.

21.15 Road brs. N.W. and S.E.

22.51 Wire fence brs. N.W. and S.E.

22.95 Irrigation ditch 8 lks. wide course N.N.W. Leave mesquite brush and enter dense sunflowers.

24.19 Intersect line bet. secs. 16 and 17, T. 23 S. R. 14 E., at a point from which the  $\frac{1}{4}$  sec. cor. brs. S.  $0^{\circ} 2'$  E., 12 chs. dist.

Set a granite stone, 21 X 12 X 10 ins., 16 ins. in the ground, for the closing cor. of secs. 16 and 17, marked

C C on S.,

B F NO 3 on N.,

16 on the E.,

17 on the W. face, and dig pits 24 X 18 X 12 ins.

crosswise on each line, E. and W. 3 ft. dist., and S. of

stone 7 ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, S of cor.

27.00 Adobe house brs. N. about 12 chs. dist.

28.00 Enter cottonwood and willow timber, brs. N.W. and S.E.

32.20 Branch of the Santa Cruz River, 1.00 ch. wide course N.

34.60 Left bank of Santa Cruz River.

40.00 The point for the 32 $\frac{1}{2}$  mile cor. falls in the bed of the Santa Cruz River.

41.00 Right bank of the Santa Cruz River brs. N.W. and S.E.

41.50 Set a sandstone, 24 X 13 X 8 ins., 18 ins. in the ground, for witness cor. to the 32 $\frac{1}{2}$  mile cor., marked

W C 32 $\frac{1}{2}$  M on the W.,

B F NO 3 on the N.,

P L on the S. face, from which

A mesquite, 6 ins. diam., brs. S.  $80^{\circ}$  W., 65 lks. dist., marked T 23 S R 14 E S 16 32 $\frac{1}{2}$  M W C B T,

A mesquite, 5 ins. diam., brs. N.  $71^{\circ}$  W., 72 lks. dist., marked W C B F NO 3 32 $\frac{1}{2}$  M B T.

Leave timber, brs. N. and S.

57.58 Wire fence, brs. N. and S. Leave Santa Cruz bottom and sunflowers; begin gradual ascent through mesquite timber and mesquite brush.

77.00 Ridge brs. N.W. and S.E.; descend.

80.00 Set a sandstone, 24 X 12 X 10 ins., 18 ins. in the ground, for the 33 mile cor., marked

33 M on W.,

B F NO 3 on N.,

P L on S. face, from which

A mesquite, 7 ins. diam., brs. N.  $22^{\circ}$  E., 88 lks. dist., marked B F NO 3 33 M B T,

A mesquite, 16 ins. diam., brs. S.  $34^{\circ}$  E., 161 lks. dist., marked T 23 S R 14 E S 16 33 M B T,

A mesquite, 7 ins. diam., brs. S.  $82^{\circ}$  W., 171 lks. dist., marked T 23 S R 14 E S 16 33 M B T,

A mesquite, 8 ins. diam., brs. N.  $11^{\circ}$  W., 264 lks. dist., marked B F NO 3 33 M B T.

Land, rolling and level.

Soil; alluvial, gravelly and stony; 1st, 3rd and 4th rate.

SOUTH BOUNDARY OF BACA FLOAT NO. 3.

chains

Timber; mesquite, willow and cottonwood.  
 Undergrowth; mesquite, tesota and sunflowers.  
 Dense undergrowth 80.00 chs.  
 December 1: At this cor. I set off 21° 47' W. on the decl. arc; and at 11:41 a.m., l.m.t., observe the sun on the meridian; the resulting lat. is 31° 26' N., or within one minute of the proper lat.  
 Thence east on the 34th mile.  
 Over rolling land; descending through scattering mesquite timber and undergrowth.  
 4.80 Dry wash 15 lks. wide course S.W.; ascend.  
 15.00 Top of ridge brs. N.W. and S.E.; descend.  
 22.90 Enter draw course S.W.  
 24.00 Intersect line bet. secs. 15 and 16, T. 23 S. R. 14 E. at a point from which the  $\frac{1}{2}$  sec. cor. brs. S. 0° 13' E., 11.78 chs. dist. *as described by the survey general*  
 Set a sandstone, 18 X 10 X 8 ins., 12 ins. in the ground, for the closing cor. of secs. 15 and 16, marked C C on the S., B F NO 3 on the N., 15 on the E., 16 on the W. face, from which  
 A cedar, 12 ins. diam., brs. S. 54° E., 382 lks. dist., marked T. 23 S., R 14 E S 15 B T.,  
 A mesquite, 6 ins. diam., brs. S. 10° 45' W., 172 lks. dist., marked T 23 S R 14 E S 16 B T., and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, S. of cor.  
 24.80 Leave draw; ascend.  
 28.70 N. edge of mesa; descend.  
 31.80 Foot, brs. N.E. and S.W.; enter mesquite timber and dense brush.  
 40.00 Set a sandstone, 24 X 14 X 10 ins., 18 ins. in the ground, for the 33 1/2 mile cor., marked 33 1/2 M on the W., B F NO 3 on the N., P L on the S. face, from which  
 A tesota, 6 ins. diam., brs. S. 84° W., 59 lks. dist., marked T 23 S R 14 E S 15 33 1/2 M B T.,  
 A mesquite, 6 ins. diam., brs. S. 35 1/2° E., 54 lks. dist., marked T 23 S R 14 E S 15 33 1/2 M R T, and raise a mound of stone, 3 ft. base, 2 ft. high, N. of cor. *No other trees within limits.*  
 43.00 Dry wash 90 lks. wide, course S.W.  
 46.30 Dry wash 100 lks wide course S.W.  
 53.00 Leave timber and dense brush; ascend.  
 62.00 Top of ridge brs. N.E. and S.W.; descend.  
 66.00 Dry wash 20 lks. wide course S.W.; ascend.  
 72.30 Top of ridge brs. N.E. and S.W.; descend.  
 76.10 Draw 140 lks. wide course S.W.; ascend.  
 80.00 Set a sandstone; 28 X 10 X 6 ins., 21 ins. in the ground, for the 34 mile cor., marked 34 M on the W., B F NO 3 on the N., P L on the S. face, and raise a mound of stone, 3 ft. base, 2 ft. high, N. of cor.  
 From this cor.  
 Geubabi Butte brs. S. 32° W., and  
 Shibell Peak, San Cayetano Mrs., brs. N. 35° W.  
 Land; rolling and level.  
 Soil; sandy, gravelly and stony; 3rd and 4th rate.  
 Timber; mesquite and scattering tesota.  
 Undergrowth; mesquite and tesota.  
 Dense undergrowth 22.20 chs.  
 December 1, 1905.  
 December 2: At 8 h. 45 m. l.m.t., I set off 31° 26' N. on the lat. arc; and 21° 54' S., on the decl. arc; and determine a true meridian with the solar at the 34th mile cor.  
 Thence I run  
 East on the 35th mile.  
 Over rolling land; ascending.  
 1.40 Top of ridge brs. N.E. and S.W.; descend.

## chains

- 4.50 Draw 60 lks. wide course S.W.; ascend.
- 8.50 Top of ridge brs. N. and S.; descend.
- 9.50 Draw 1.00 ch. wide course S.; ascend.
- 15.00 Top of ridge brs. N. and S.; descend.
- 20.40 Draw 1.00 chs. wide course S.S.W.; ascend.
- 22.98 ✓ Intersect line bet. secs. 14 and 15, <sup>T. 23 S. R. 14 E.</sup> at a point from which the  $\frac{1}{4}$  sec. <sup>as defined by the survey of General</sup> cor. brs. S. 0° 17' E. *General*  
 8.90 chs. dist.  
 Set a sandstone, 18 X 12 X 8 ins., 12 ins. in the ground, for the closing cor. of secs. 14 and 15, marked  
 C C on the S.,  
 B F NO 3 on the N.,  
 14 on the E.,  
 15 on the W. face, and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$  ft. high, S. of cor. Pits impracticable.
- 24.00 Spur extending S.; descend.
- 33.50 Draw 1.00 ch. wide course S.; ascend.
- 36.50 Top of ridge brs. N. and S.; descend.
- 40.00 Set a sandstone, 24 X 12 X 9 ins., 18 ins. in the ground, for the 34 $\frac{1}{2}$  mile cor., marked  
 34 $\frac{1}{2}$  M on the W.,  
 B F NO 3 on the N.,  
 P L on the S. face, from which  
 A mesquite, 14 ins. diam., brs. S. 25 $\frac{1}{2}$ ° E., 112 lks. dist., marked T 23 S R 14 E S 14 34 $\frac{1}{2}$  M B T,  
 A mesquite, 4 ins. diam., brs. N. 62° 45' W., 73 lks. dist., marked B F NO 3 34 $\frac{1}{2}$  M B T, and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$  ft. high, N. of cor.
- 41.00 ~~Draw~~; ascend.
- 42.00 Top of slope (s) of knoll; descend.
- 43.50 Enter draw course S.W.
- 44.80 Trail brs. N.E. and S.W.
- 45.00 Dry wash 60 lks. wide course N.E.
- 48.20 Leave draw; ascend.
- 80.00 Set a sandstone, 28 X 10 X 8 ins., 24 ins. in the ground, for the 35 mile cor., marked  
 35 M on the W.,  
 B F NO 3 on the N.,  
 P L on the S. face; and raise a mound of stone, 3 ft. base, 2 $\frac{1}{2}$  ft. high <sup>N.W. of cor.,</sup> Pits impracticable.  
*Under rolling soil gravelly and stony. note December 2, 1905.*  
 December 3: At 8 h. 40 m., a. m., l.m.t., I set off 31° 26' N. on the lat. arc; and 22° 04' S. on the decl. arc; and determine a true meridian with the solar at the 35 mile cor.  
 Thence I run:  
 East on the 36th mile.  
 Over mountainous land; ascending.
- 9.00 Spur extending N.W.; descend.
- 16.50 Head of gulch course N.W.; ascend.
- 17.00 Trail brs. N.E. and S.W.
- 18.70 Spur extending N.W.; descend.
- 22.50 Dry wash 15 lks. wide course S.W.; ascend.
- 22.58 ✓ Intersect line bet. secs. 13 and 14, <sup>T. 23 S. R. 14 E.</sup> at a point from which the  $\frac{1}{4}$  sec. <sup>as defined by the survey of General</sup> cor. brs. S. 0° 51' W. *General*  
 8.92 chs. dist.  
 Set a sandstone, 18 X 8 X 6 ins., 12 ins. in the ground, for the closing cor. of secs. 13 and 14, marked  
 C C on the S.,  
 B F NO 3 on the N.,  
 13 on the E., and 14 on the W. face; and raise a mound of stone, 3 ft. base, 2 ft. high, S. of cor. Pits impracticable.
- 27.00 Spur extends S.; descend.
- 33.70 Draw 1.00 ch. wide course S.; ascend
- 38.00 Spur extends S.; descend.
- 40.00 Set a malpais; 24 X 16 X 12 ins., 18 ins. in the ground, for the 35 $\frac{1}{2}$  mile cor., marked  
 35 $\frac{1}{2}$  M on the W.,  
 B F NO 3 on the N.,

SOUTH BOUNDARY OF BACA FLOAT NO. 3.

chains P L on the S. face, and raise a mound of stone, 3 ft. base, 2 ft. high, W. of cor., Pits impracticable.

43.00 Enter draw course S.W.

46.70 Leave draw; ascend.

46.90 Intersect the N.E. boundary of the Calabazas Private Land Grant (Estancia) at a point from which the Post N.E. Cor. of said Estancia brs. N. 46° 55' W., 481.60 chs. dist. Set a malpais stone, 24 X 12 X 8 ins., 18 ins. in the ground, for the closing cor. of the Baca Float NO 3., marked

CC on the E. face  
CG on the S.W. face

56.00 B F NO 3 on the N.E. ~~face~~ <sup>edge</sup>, and raise a mound of stone, 3 ft. base, 2 ft. high, E. of cor. Pits impracticable.

73.00 Spur extends S.; descend.

80.00 Draw 80 lks. wide course S., ascend.

Set a sandstone, 24 X 14 X 7 ins., 18 ins. in the ground, for the 36 mile cor., marked

36 M on the W.,  
B F NO 3 on the N.,  
P L on the S. face; and raise a mound of stone, 3 ft. base, 2 ft. high, W. of cor. Pits impracticable.

Land; mountainous.  
Soil; gravelly and stony; 3rd and 4th rate.  
Timber; scattering mesquite.  
Undergrowth; mesquite and tesotilla.  
Mountainous land 68.40 chs.  
Cloudy weather prevented lat. observations.  
Thence East on the 37th mile.  
Over mountainous land; descending.

3.70 Draw 80 lks. wide, course S.;

10.00 Location monument brs. 120 lks. N.

11.00 Draw 1.00 ch. wide course S., ascend.

15.80 Top of spur extending S.; descend.

23.11 Intersect line bet. secs. 13 and 18 on E. bdy. of <sup>as described by the Surveyor General</sup> T. 23 S., R. 14 E., at a point from which the 1/4 sec. cor. brs. S. 9.12 chs. dist.

Set a granite stone, 21 X 10 X 8 ins., 15 ins. in the ground, for the closing cor. of secs. 13 and 18, marked

CC on the S.,  
B F NO 3 on the N.,  
18 on the E.,  
13 on the W. face, from which  
An oak, 12 ins. diam., brs. S. 88° W., 157 lks. dist. marked T 23 S R 14 E S 13 B T, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, S. of cor. Pits impracticable. **No other trees within limits.**

26.00 Dry wash 30 lks. wide course S.; enter draw course S.W.

34.00 Dry wash 30 lks. wide course S.W.

38.00 Leave draw; ascend.

40.00 Set a sandstone, 24 X 8 X 6 ins., 18 ins. in the ground, for the 36 1/2 mile cor., marked

36 1/2 M on the W.,  
B F NO 3 on the N.,  
P L on the S. face, from which  
A mesquite, 4 ins. diam., brs. N. 38° 45' W., 160 lks. dist.,  
A mesquite, 4 ins. diam., brs. N. 76° W., 187 lks. dist.,  
both marked B F NO 3 36 1/2 M B T, and raise a mound of stone, 3 ft. base, 2 ft. high, N. of cor.

December 3, 1905.  
December 4: At 8 h. 45 m., a.m., l.m.t., I set off 31° 26' N. on the Lat. arc; and 22° 11' S. on the decl. arc; and determine a true meridian with the solar at the 36 1/2 mile cor.,  
Thence I continue  
East on the 37th mile.

40.40 Top of spur extending S.; descend.

48.20 Enter Jarrillo Canyon course S.W.

49.40 Dry wash 60 lks. wide course S.W.

61.60 Road brs. N.E. and S.W.

65.00 Top brs. N.E. and S.W.

SOUTH BOUNDARY OF BACA FLOAT NO. 3.

chains  
80.00

Set a sandstone, 28 X 8 X 8 ins., 21 ins. in the ground, for the 37 mile cor., marked 37 M on the W., B F NO 3 on the N., P L on the S. face, from which An oak, 8 ins. diam., brs. S. 64 $^{\circ}$  E., 305 lks. dist., T 23 S R 15 E S 18 37 M B T, An oak, 10 ins. diam., brs. S. 25 $^{\circ}$  E., 297 lks. dist., marked T 23 S R 15 E S 18 37 M B T. No other trees within limits. Raise a mound of stones, 3 ft. base, 2 ft. high, W. of cor. Pits impracticable.

Note - Heavy rain prevented further work on this day. *Land mts. soil gravelly 3<sup>rd</sup> & 4<sup>th</sup> rate. Timber scattering mesquite. Undergrowth mesquite & tesquite.*  
December 4, 1905.

14.00  
29.32

December 5; At 8 h. 45 m., l.m.t. a.m., I set off 31 $^{\circ}$  26' N., on the lat. arc; and 22 $^{\circ}$  19' S., on the decl. arc; and determine a true meridian with the solar at the 37 mile cor. Thence I run East on the 38th mile.

Over gently rolling land, through scattering oak timber. Dry wash 20 lks. wide course S.W. *ascend*

Set a granite stone 24 X 24 X 20 ins., 18 ins. in the ground, for the S.E. corner of the Baca Float NO 3, marked with a triangle ( $\Delta$ ) on top

S E COR B F NO 3 on N.W. face, P L on the S.E. face, from which An oak, 16 ins. diam., brs. N. 51 $^{\circ}$  W., 423 lks. dist., B F NO 3 S E COR B T, An oak, 8 ins. diam., brs. S. 18 $^{\circ}$  45' W., 447 lks. dist., marked T 23 S R 15 E S 18 S E COR B T, An oak, 10 ins. diam., brs. S. 81 $^{\circ}$  E., 384 lks. dist., marked T 23 S R 15 E S 18 S E COR B T, An oak, 6 ins. diam., brs. S. 69 $^{\circ}$  E., 281 lks. dist., marked T 23 S R 15 E S 18 S E COR B T, and raise a mound of stone, 3 ft. base, 2 $\frac{1}{2}$  ft. high, N.W. of cor. Thence I continue over gently rolling land.

2.25  
6.70  
9.50  
10.68

North on the 38th mile. Descend; brs. N.W. and S.E. Enter draw course N.W. Leave draw; ascend. Set a sandstone, 28 X 8 X 8 ins., 21 ins. in the ground, for the 37 $\frac{1}{2}$  mile cor., marked 37 $\frac{1}{2}$  M on the S., B F NO 3 on the W., P L on the E. face, from which

A mesquite, 6 ins. diam., brs. S. 7 $^{\circ}$  E., 196 lks. dist., A mesquite, 6 ins. diam., brs. S. 15 $^{\circ}$  W., 220 lks. dist., both marked B F NO 3 37 $\frac{1}{2}$  M B T., and raise a mound of stone, 3 ft. base, 2 $\frac{1}{2}$  ft. high, W. of cor. Spur extending W; descend.

11.00  
22.00  
23.30  
26.60  
32.60  
32.80  
38.70  
39.10  
41.75  
50.68

Enter Jarilla Canyon, course S.W. Road brs. E. and W. Dry wash 60 lks. wide course S.W. Leave canyon; ascend. Top brs. E. and W. *and descend* Trail brs. N.E. and S.W. Trail brs. E. and W. Dry wash 30 lks. wide course S.W. Completion of the 38th mile.

Set a granite stone, 24 X 8 X 7 ins., 18 ins. in the ground, for the 38 mile cor., marked 38 M on the S., B F NO 3 on the W., P L on the E. face, from which An oak, 6 ins. diam., brs. N. 41 $^{\circ}$  W., 215 lks. dist., An oak, 12 ins. diam., brs. N. 35 $^{\circ}$  W., 215 lks. dist., both marked B F NO 3 38 M B T. No other trees available. Raise a mound of stone, 3 ft. base, 2 ft. high, W. of cor. Pits impracticable. Land, rolling and level. Soil; sandy, gravelly and stony; 3rd and 4th rate.

chains	Timber; scattering oak and mesquite. Undergrowth; mesquite. December 5: At this cor. I set off $22^{\circ} 27' S$ . on the decl. arc; and at $11^h 51^m$ , l.m.t., I observe the sun on the meridian; the resulting lat. is $31^{\circ} 27' N$ ., or within 1' of the proper lat. Thence I run N. on the 39th mile. Trail brs. E. and W.
7.35	Draw 2.00 chs. wide course S.W.
26.80	Set a granite stone, 21 X 10 X 8 ins., 15 ins. in the ground, for the 38 $\frac{1}{2}$ mile cor., marked
40.00	38 $\frac{1}{2}$ M on the S., B F NO 3 on the W., P L on the E. face, from which An oak, 16 ins. diam., brs. N. $39^{\circ} E$ ., 47 lks. dist. marked T 23 S R 15 E 38 $\frac{1}{2}$ M B T, An oak, 8 ins. diam., brs. N. $73^{\circ} E$ ., 34 lks. dist., marked T 23 S R 15 E 38 $\frac{1}{2}$ M B T, and raise a mound of stone, 2 ft. base 1 $\frac{1}{2}$ ft. high, W. of cor. No other trees within limits.
45.50	Road brs. N.E. and S.W.
50.00	Gulch 30 lks. wide course N.W.
56.70	Gulch 20 lks. wide course S.S.W.
59.77	Trail brs. E. and W.
60.05	Wire fence brs. E. and W.
80.00	An oak, 18 ins. diam., for the 39th mile cor., I mark 39 M on S., B F NO 3 on W., P L on E. side, from which An oak, 18 ins. diam., brs. S. $63^{\circ} E$ ., 84 lks. dist., marked T 23 S R 15 E 39 M B T, An oak, 12 ins. diam., brs. S. $3^{\circ} W$ ., 168 lks. dist., marked B F NO 3 39 M B T, An oak, 24 ins. diam., brs. N. $85^{\circ} W$ ., 272 lks. dist., marked B F NO 3 39 M B T, An oak, 6 ins. diam., brs. S. $78^{\circ} E$ ., 84 lks. dist., marked T 23 S R 15 E 39 M B T. Land; rolling and level. Soil; sandy, gravelly and stony; 3rd and 4th rate. Timber; oak and mesquite in draws and gulches.
	December 5, 1905.
	December 6th: At 9 h., a.m., l.m.t., I set off $31^{\circ} 27' N$ . on the lat. arc; and $22^{\circ} 27' S$ . on the decl. arc; and determine a true meridian with the solar at the 39th mile cor. Thence I run North on the 40 th mile. Over level land, through scattering oak timber. Leave draw; thence over level land, Giraldo Castro's ranch house, windmill and corrals brs E. about 10 chs. dist.
2.60	Enter draw course S.W.
7.60	Leave draw course S.
8.60	Wire fence brs. E. and W.
15.40	Set a granite stone, 24 X 12 X 8 ins., 18 ins. in the ground, for the 39 $\frac{1}{2}$ mile cor., marked
36.35	39 $\frac{1}{2}$ M on the S., B F NO 3 on the W., P L on the E. face, from which An oak, 12 ins. diam., brs. S. $63^{\circ} W$ ., 70 lks. dist., B F NO 3 39 $\frac{1}{2}$ M B T, An oak, 18 ins. diam., brs. N. $87^{\circ} E$ ., 113 lks. dist., marked T 23 S R 15 E 39 $\frac{1}{2}$ M B T., and raise a mound of stone, 3 ft. base, 2 $\frac{1}{2}$ ft. high, W. of cor.
40.00	Dry wash 30 lks. wide course W.
41.35	Trail brs. E. and W.
42.40	Old road brs. E. and W.
53.00	Draw 2.00 chs. wide course S.W.
57.00	Set a granite stone, 24 X 10 X 10 ins., 18 ins. in the ground, for the 40th mile cor., marked
80.00	40 M on the S., B F NO 3 on the W., P L on the E. face, from which An oak, 36 ins. diam., brs. S. $84^{\circ} 45' E$ ., 189 lks. dist.

chains T 23 S R 15 E 40 3/4 M B T,  
 An oak, 36 ins. diam., brs. S. 23 1/2° E., 181 lks. dist.,  
 marked T 23 S R 15 E 40 M B T,  
 An oak, 36 ins. diam., brs. S. 12° W., 111 lks. dist.,  
 marked B F NO 3 40 M B T  
 An oak, 5 ins. diam., brs. S. 89° W., 32 lks. dist.,  
 marked B F NO 3 40 M B T. *Hand level & rolling soil 3-4' rate.*  
 December 6: At this cor. I set off 22° 28' S. on the  
 decl. arc; and at 1 1/2 h. 5 m. a.m.t., I observe the sun  
 on the meridian; the resulting lat. is 31° 29' N. or  
 within 1' of the proper lat.  
 Thence North on the 41st mile.  
 Over rolling land.

7.10 Draw 80 lks. wide course S.E.; ascend.  
 17.10 Intersect line bet. secs. 32 and 5 on the S. bdy. of  
 T. 22 S. R 15 E., at a point from which the 1/4 sec. cor. *as described by the Surveyor General*  
 brs. S. 89° 43' E., 29.90 chs. dist.  
 Set a granite stone, 24 X 10 X 6 ins., 18 ins. in the  
 ground, for the closing cor. of secs. 5 and 32, marked  
 C C on the E.,  
 B F NO 3 on the W.,  
 32 on the N.,  
 5 on the S. face, and raise a mound of stone, 3 ft. base,  
 2 ft. high, E. of cor. Pits impracticable.

34.80 Trail brs. N.E. and S.W.  
 35.00 Ridge brs. E. and W.; descend.  
 40.00 Set a granite stone, 24 X 8 X 6 ins., 18 ins. in the  
 ground, for the 40 1/2 mile cor., marked  
 40 1/2 M on the S.,  
 B F NO 3 on the W.,  
 P L on the E. face, and raise a mound of stone, 3 ft.  
 base, 2 ft. high, W. of cor. Pits impracticable.

46.10 Gulch 40 lks. wide course W.; ascend.  
 60.70 Ridge brs. E. and W.; descend.  
 70.25 Dry wash 20 lks. wide course W.; ascend.  
 80.00 Set a porphyrite stone, 20 X 16 X 12 ins., in mound  
 of stone for the 41st mile cor., marked  
 41 M on the S.,  
 B F NO 3 on the W.,  
 P L on the E. face, from which  
 An oak, 14 ins. diam., brs. S. 6 1/2° E., 156 lks. dist.,  
 marked T 22 S R 15 E S 32 41 M B T  
 An oak, 24 ins. diam., brs. S. 26 1/2° E., 328 lks. dist.,  
 marked T 22 S. R 15 E S 32 41 M B T,  
 An oak, 20 ins. diam., brs. N. 26° E., 350 lks. dist.,  
 marked T 22 S R 15 E S 32 41 M B T,  
 An oak, 18 ins. diam., brs. N 4 1/2° W., 383 lks. dist.,  
 marked B F NO 3 41 M B T, and raise a mound of stone, 3  
 ft. base, 2 ft. high, W. of cor. *Land rolling & mt. soil 3-4' rate.*  
 December 6, 1905

December 7: At 8 h. 45 m., a.m., 1.m.t., I set off  
 31° 29' N. on the lat. arc; and 22° 34' S. on the decl.  
 arc; and determine a true meridian with the solar at the  
 41 mile cor.

Thence I run N. on the 42nd mile.  
 Over mountainous land, ascending.

.50 W. Slope of ridge brs. N. and S.; descend.  
 7.65 Trail brs. E. and W.  
 14.41 Intersect line bet. secs. 29 and 32, T. 22 S. R. 15 E.,  
 at a point from which the 1/4 sec. cor. *as described by the Surveyor General*  
 brs. S. 89° 43' E.,  
 29.51 chs. dist.  
 Set a granite stone, 18 X 10 X 8 ins., 12 ins. in the  
 ground, for the closing cor. of secs. 29 and 32 marked  
 C C on the E.,  
 B F NO 3 on the W.,  
 29 on the N.,  
 32 on the S. face, and raise a mound of stone, 3 ft. base,  
 2 ft. high, E. of cor. Pits impracticable.

15.75 Large mound of stone 1.00 ch. west.  
 24.50 Head of gulch course W. Begin steep ascent.  
 40.00 Set a porphyrite stone, 24 X 10 X 8 ins., 18 ins. in the  
 ground, for the 41 1/2 mile cor., marked  
 41 1/2 M on the S.



chains	B F NO 3 on W. P L on E face, and raise a mound of stone, 3 ft. base, 2 ft. high, W. of cor. Pits impracticable.
41.68	Intersect the SE. bdy. of the preliminary survey of the San Jose de Sonoita Claim as surveyed by J.L.Harris, in the year 1880, at a point from which an angle cor. of said bdy. brs. N. 73° 55' E.; 3.40 chs. dist., and an angle cor. of said bdy. brs. S. 73° 55' W., 147.80 chs. dist. Set a granite stone, 18 X 8 X 8 ins., 12 ins. in the ground, for the clos. cor. of the Baca Float No. 3, marked C C on S.,
42.00	S. on N. and raise a mound of stone, 3 ft. base, 2 ft. high, S. of cor. Pits impracticable.
61.74	Top of west slope of San Cayetano Mts., Descend.
41.68 60.06	Intersect the S. bdy. of the San Jose de Sonoita Private Land Claim (confirmed) at a point from which the 7 mile cor. of said tract brs. S. 70° W., 7.32 chs. dist., Set a porphyry stone, 18 X 9 X 7 ins., 12 ins. in the ground, for the closing cor. of the Baca Float No. 3, marked C C on S.,
71.50	S J D S on N. face, and raise a mound of stone, 3 ft. base, 2 ft. high, S. of cor. Pits impracticable.
80.00	Thence on a blank line, descending. Deep gulch, 500 ft. below mountain, course NW., Ascend. Raise a mound of stone to mark the 42 mile cor. point. Heavy rain prevented further work on this day. Land, mountainous. Soil, gravelly; 3rd and 4th rate. Mountainous land, 80.00 chs.
	Dec. 7, 1905.
	Sec. 8: At 8 h. 45 m., a.m., l.m.t., I set off 31° 30' N., on the lat. arc; and 22° 41' S., on the decl. arc; and determine a true meridian at the mound marking the 42 mile point Thence I run, N. on a blank line, ascending. Ridge, brs. NW. and SE.; descend. Wire fence, brs. E. and W., Enter Sonoita Canyon. Sonoita Creek, 120 lks. wide, course W. Wire fence, brs. E. and W. Single track of New Mexico and Arizona R.R. brs. N. 81½° E. Telegraph line, brs. E. and W. Wire fence, brs. E. and W. Leave canyon, ascend. Top of bank, brs. E. and W. Ascend over rocky ground, Raise a mound of stone to mark the 42½ mile point.
2.00	
16.00	
17.00	
18.00	
18.26	
18'73	
19.00	
19.30	
19.60	
40.00	
52.36	Dec. 8: At this point I set off 22° 42' S on the decl. arc, and at 11h. 52m, a.m., l.m.t. I observe the sun on the meridian; the resulting lat. is 31° 31' N. or within one minute of the proper lat. Thence I continue North on a blank line. Intersect the N. bdy. of the San Jose de Sonoita Private Land Claim (confirmed) at a point from which the 15 mile cor. of said tract brs. S. 72° W., 15.16 chs. dist. Set a granite stone, 18 X 8 X 8 ins., 12 ins. in the ground, for the clos. cor. of the Baca Float No. 3, marked C C on N.,
67.47	S J D S on S. face, and raise a mound of stone, 3 ft. base, 2 ft. high, N. of cor. Pits impracticable. Dec. 8, 1905.
	Dec. 9: At 9 h., a.m., l.m.t., I set off 31° 31' N. on the lat. arc, and 22° 47' S. on the decl. arc and determine a true meridian with the solar at the closing cor. of Baca Float No. 3, on the San Jose de Sonoita Private Land Claim. Thence I continue N. on the 43rd mile. Intersect the N. bdy. of the preliminary survey of the San Jose de Sonoita Private Land Claim as surveyed by J. L. Harris in the year 1880 at a point from which an angle cor. in said bdy. brs. S. 78° 18' W., 14.18 chs. dist., and an angle point in said bdy. brs. N. 78° 18' E. 137.80 chs. dist. Set a porphyry stone, 18 X 8 X 8 ins., 12 ins. in the ground, for the clos. cor. of the Baca Float No. 3, marked C C on N. S. on S. face, and raise a mound of stone, 3 ft. base.
67.82	
57.36	
15.46	

East Boundary of Baca Float No. 3.

chains 2 ft. high, N. of cor. Pits impracticable.  
 70.00 Ridge brs. E. and W. Descend.  
 80.00 Set a granite stone, 24 X 14 X 10 ins., 18 ins. in the ground, for the 43rd mile cor., marked 43 M. on S., B F NO 3 on W., P L on E. face, from which  
 An oak, 8 ins. diam., brs. S. 1° 45' E., 50 lks. dist., marked T 22 S R 15 E S 20 43 M B T.,  
 An oak, 14 ins. diam., brs. S. 72½° E., 55 lks. dist., marked T 22 S R 15 E S 20 43 M B T.,  
 An oak, 16 ins. diam., brs. N. 7½° E., 30 lks. dist., marked T 22 S R 15 E S 20, 43 M B T. & raised a md. of stones 3 ft. base, 2 ft. high, W. of cor. Pits impracticable.  
 No other trees within limits.  
 Land, mountainous.  
 Soil, gravelly, 3rd rate.  
 Mountainous land, 80.00 chs.  
 Dec. 9: At this cor. I set off 22° 48' S. on the decl. arc, and at 11 h., 52 m., a.m., l.m.t., observe the sun on the meridian; the resulting lat. is 31° 31' N., or within one minute of the proper lat.

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Thence I run North on the 44th mile.  
 Over mountainous land; ascending.  
 4.70 Gulch, 30 lks. wide, course SE.  
 13.00 Intersect line bet. secs. 17 and 20, T 22 S., R. 15E., at a point from which the ¼ sec. cor. as described by the Surveyor General brs. S. 89° 50' E., 29.95 chs. dist. Set a granite stone, 24 X 14 X 8 ins., 18 ins. in the ground, for the clos. cor. of secs. 17 and 20, marked C C on the E., B F NO 3 on the W., 20 on the S., 17 on the N. face, and raise a mound of stone, 3 ft. base, 2 ft. high, E. of cor. Pits impracticable.  
 40.00 Set a porphyry stone, 24 X 10 X 8 ins., 18 ins. in the ground for the 43½ mile cor. marked 43½ M on E., B F No 3 on W., P L on E. face, and raise a mound of stone, 3 ft. base, 1½ ft. high, W. of cor. Pits impracticable.  
 55.40 Gulch, 1.00 chs. wide, course W.  
 71.40 Ascend steeper.  
 80.00 Set a porphyry stone, 24 X 10 X 10 ins., 18 ins. in the ground, for the 44th mile cor., marked 44 M on S., B F No 3 on W., P L on E. face and raise a mound of stone, 3 ft. base, 2 ft. high, W. of cor. Pits impracticable.  
 Land, mountainous.  
 Soil, stony: 4th rate.  
 Timber, scattering oak.  
 Mountainous land, 80.00 chs. December 9, 1905.

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Dec. 10: At this cor. I set off 22° 53' S. on the decl. arc; and at 9 h. a.m., l.m.t., I set off 31° 32' N. on the lat. arc, and determine a true meridian with the solar at this cor.  
 Thence I run North on the 45th mile.  
 Over mountainous land; ascending.  
 13.00 Top, thence along E. slope of ridge.  
 38.10 Trail brs. NW. and SE.  
 40.00 Set a granite stone, 24 X 10 X 8 ins., 18 ins. in the ground, for the 44½ mile cor., marked 44½ M on the S., B F NO 3 on the W., P L on the E. face, from which  
 An oak, 12 ins. diam., brs. N. 22° 45' E., 215 lks. dist., marked T 22 S R 15 E 44½ M B T,  
 An oak, 16 ins. diam., brs. N. 60½° W., 145 lks. dist., marked B F NO 3 44½ M B T, and raise a mound of stones 3 ft. base, 2 ft. high, W. of cor.  
 December 10, 1905.

chains

December 11: At 9 h., a.m., l.m.t., I set off  $31^{\circ} 32' N.$ , on the lat. arc; and  $22^{\circ} 58' S.$  on the decl. arc; and determine a true meridian with the solar at the 44<sup>1</sup>/<sub>2</sub> mile cor.

Thence I continue

North on the 45 mile.

46.75 Gulch 30 lks. wide course W. Ascend.

54.20 Spur extending W.; descend.

58.40 Gulch 30 lks. wide course W.; ascend.

60.20 Spur extending W.; descend.

66.90 Gulch 25 lks. wide course S.S.W.; ascend.

80.00 Set a granite stone, 24 X 14 X 8 ins., 18 ins. in the ground, for the 45 mile cor., marked

45 M on the S.,

B F NO 3 on the W.,

P L on the E. face, from which

An oak, 10 ins. diam., brs. S.  $27^{\circ} E.$ , 60 lks. dist., marked T 22 S R 15 E 45 M B T,

An oak, 12 ins. diam., brs. S.  $1^{\circ} W.$ , 145 lks. dist., marked B F NO 3 45 M B T,

An oak, 10 ins. diam., brs. N.  $72^{\circ} W.$ , 62 lks. dist., marked B F NO 3 45 M B T,

An oak, 24 ins. diam., brs. N.  $131^{\circ} E.$ , 143 lks. dist., marked T 22 S R 15 E 45 M B T, and raise a mound of stone, 3 ft. base 1 ft. high W. of cor.

Land; mountainous and gently rolling.

Soil; stony and gravelly; 4th rate.

Timber, scattering oak.

Mountainous land 63.70 chs.

December 11: At this cor. I set off  $22^{\circ} 59' S.$  on the decl. arc; and at 11.57 a.m., l.m.t., I observe the sun on the meridian; the resulting lat. is  $31^{\circ} 35' N.$ , or within 1' of the proper lat.

Thence I run

North on the 46th mile.

Over mountainous land; ascending.

15.80 Ridge brs. N.W., descend.

22.50 Foot, brs. N.W., ascend.

30.60 Ridge brs. N.W., descend.

38.80 Foot brs. N.W., ascend.

40.00 Set a granite stone, 24 X 10 X 10 ins., 18 ins. in the ground, for the 45<sup>1</sup>/<sub>2</sub> mile cor., marked

45<sup>1</sup>/<sub>2</sub> on the S.,

B F NO 3 on the W.,

P L on the E. face, from which

An oak, 12 ins. diam., brs. S.  $11^{\circ} E.$ , 188 lks. dist., marked T 22 S R 15 E 45<sup>1</sup>/<sub>2</sub> M B T,

An oak, 18 ins. diam., brs. West, 110 lks. dist., marked B F NO 3 45<sup>1</sup>/<sub>2</sub> M B T.

December 11, 1905.

December 12: At 9 h. a.m., l.m.t., I set off  $23^{\circ} 03' S.$ , on the decl arc; and  $31^{\circ} 33' N.$ , on the lat arc; and determine a true meridian with the solar at the 45<sup>1</sup>/<sub>2</sub> M cor.

Thence I continue

North on the 46th mile.

41.00 Top of round hill; descend.

56.50 Foot brs. E. and W.; thence gently rolling.

59.00 Gulch 20 lks. wide course W.; ascend.

65.80 Road from Tubac to Patagonia brs. N.W. and S.E.

78.50 Gulch 10 lks. wide course S.W.; ascend.

80.00 Set a porphyrite stone, 24 X 8 X 6 ins., 18 ins. in the ground, for the 46 mile cor., marked

46 M on the S.,

B F NO 3 on the W.,

P L on the E. face, from which

An oak, 15 ins. diam., brs. N.  $51^{\circ} W.$ , 440 lks. dist., marked B F NO 3 46 M B T,

A mesquite, 8 ins. diam., brs. N.  $201^{\circ} E.$ , 173 lks. dist., marked T 22 S R 15 E 46 M B T,

A mesquite, 30 lks. diam., brs. South, 419 lks. dist., marked T 22 S R 15 E on E. and B F NO 3 46 M B T on W.

chains

An oak, 24 ins. diam., brs. S. 11° W., 440 lks. dist., marked B F NO 3 46 M B T, and raise a mound of stone, 3 ft. base, 12 ft. high, W. of cor. Land; mountainous and gently rolling. Soil; stony and gravelly; 4th rate. Timber; scattering oak and mesquite. Mountainous land 68.00 chs.

December 12: At this cor. I set off 23° 04' S., on the decl. arc; and at 10h. 54m. 4m., l.m.t., observe the sun on the meridian; the resulting lat. is 31° 34' N., or identical with the proper lat.

Thence I run North on the 47th mile.

Over mountainous land; ascending through scattering oak timber.

- 6.20 Spur extending E., descend.
- 18.00 Small gulch course W.; ascend.
- 28.30 Top of ridge brs. E. and W.
- 34.20 Descend.

40.00 Set a granite stone, 24 X 8 X 8 ins., 18 ins. in the ground, for the 46<sup>1</sup>/<sub>2</sub> mile cor., marked

46<sup>1</sup>/<sub>2</sub> M on the S., B F NO 3 on the W., P L on the E. face, from which

An oak, 10 ins. diam., brs. N. 75<sup>1</sup>/<sub>2</sub>° W., 72 lks. dist., marked B F NO 3 46<sup>1</sup>/<sub>2</sub> M B T,

An oak, 8 ins. diam., brs. N. 21° W., 57 lks. dist., marked B F NO 3 46<sup>1</sup>/<sub>2</sub> M B T, and raise a mound of stone, 3 ft. base, 12 ft. high, W. of cor.

December 12, 1906.

December 13: At 8 h. 45 m., l.m.t., a.m., I set off 31° 34' N. on the lat. arc; and 23° 07' S. on the decl. arc; and determine a true meridian with the solar at the 46<sup>1</sup>/<sub>2</sub> mile cor.

Thence I continue North on the 47th mile.

- 50.20 Gulch 60 lks. wide course S.W., thence W.; ascend.
- 58.15 Old road brs. E. and W.
- 61.90 Spur extending S.S.E; descend.
- 80.00 Set a granite stone, 24 X 10 X 8 ins., 18 ins. in the ground, for the 47th mile cor. on top of ridge bearing E and W., marked

47 M on S., B F No 3 on W.,

P L on the E. face, from which

An oak, 10 ins. diam., brs. S. 59° E., 10 lks. dist., marked T 22 S R 15 E 47 M B T,

An oak, 10 ins. diam., brs. N. 84<sup>1</sup>/<sub>2</sub>° E., 148 lks. dist., marked T 22 S R 15 E 47 M B T,

An oak, 8 ins. diam., brs. N. 22<sup>1</sup>/<sub>2</sub>° E., 93 lks. dist., marked T 22 S R 15 E 47 M B T,

An oak, 10 ins. diam., brs. N. 6° 45' W., 79 lks. dist., marked B F NO 3 47 M B T, and raise a mound of stone, 3

ft. base, 21 ft. high, W. of cor. Land, mountainous and gently rolling. Soil, stony and gravelly; 4th rate. Timber; scattering oak and mesquite. Mountainous land 68.00 chs.

Cloudy weather prevented latitude observation on this date.

Thence North on the 48th mile.

Over mountainous land; through dense oak timber. Descending.

- 9.70 Small wash course W., ascend.
- 20.50 West slope of hill; descend.
- 26.40 Bell Mare Mining Camp brs. E. 4.00 chs. dist.
- 26.90 Trail brs. N.W. and S.E.
- 33.00 Enter gulch course S.W.
- 40.00 Point for 47<sup>1</sup>/<sub>2</sub> mile falls in gulch; leave gulch.

40.50 Cut a cross (x) on a granite boulder in place, 12 X 12 X 12 ins., above ground, for a witness corner for the 47<sup>1</sup>/<sub>2</sub> mile cor., marked

W C on top

47<sup>1</sup>/<sub>2</sub> M on the S.,

EAST BOUNDARY OF BACA FLOAT NO. 3.

chains

B F NO 3 on W.,  
P L on E. face, from which  
An oak, 10 ins. diam., brs. N. 39 1/2° W., 52 lks. dist.,  
marked W C B F NO 3 47 1/2 M B T,  
An oak, 12 ins. diam., brs. N. 15 1/2° E., 76 lks. dist.,  
marked T 21 S R 15 E 47 1/2 M W C B T, and raise a mound of  
stone, 3 ft. base, 1 1/2 ft. high, W. of cor.

44.90

72.00

80.00

Same gulch 30 lks. wide course S.W.:  
Ridge brs. N.E. and S.W.; descend.  
Cut a cross (x) on a granite boulder in place, 4 X 3X2  
ft. above ground, for the 48 mile cor., marked  
48 M on the S.,

B F NO 3 on the W.,  
P L on the E., of the cross, from which  
An oak, 12 ins. diam., brs. N. 40 1/2° W., 26 lks. dist.,  
marked B F NO 3 48 M B T,  
An oak, 14 ins. diam., brs. N. 64° 45' E., 13 lks. dist.,  
marked T 21 S R 15 E 48 M B T,  
An oak, 12 ins. diam., brs. S. 65° 45' W., 57 lks. dist.,  
marked B F NO 3 48 M B T,  
An oak, 8 ins. diam., brs. S. 27 1/2° E., 39 lks. dist.,  
marked T 21 S R 15 E 48 M B T, and raise a mound of stone,  
3 ft. base, 1 1/2 ft. high, W. of cor. *W. of cor. Mt. Land 2000 ft.*

*Soil gravelly 3/2 rate* December 13, 1906.

December 14: At 8 h. 46 m., a.m., l.m.t., I set off 23°  
11' S. on the decl. arc; and 31° 35' N. on the lat. arc;  
and determine a true meridian with the solar at the  
48 mile cor.

Thence I run  
North on the 49th mile.  
Descending through oak timber.  
Gulch 20 lks. wide course W., ascend.

3.75

4.70

9.30

9.60

12.60

19.50

232.40

40.00

West slope of ridge; descend.  
Gulch 60 lks. wide course W.; ascend.  
Trail brs. N.W. and S.E.  
Spur extending W.; descend.  
Gulch 20 lks. wide course W.; ascend.  
Top brs. N. and S., thence along W. slope of mountain.  
Set a granite stone, 24 X 12 X 6 ins., 18 ins. in the  
ground, for the 48 1/2 mile cor., marked

48 1/2 M on S.,  
B F NO 3 on the W.,  
P L on the E. face, from which  
An oak, 10 ins. diam., brs. S. 35 1/2° E., 34 lks. dist.,  
marked T 21 S R 15 E 48 1/2 M B T,  
An oak, 6 ins. diam., brs. S. 26 1/2° W., 42 lks. dist.,  
marked B F NO 3 48 1/2 M B T, and raise a mound of stone,  
3 ft. base, 3 ft. high, W. of cor.

Dec. 14: At this cor. I set off 23° 12' S., on the decl.  
arc; and at 11 h. 55 m., l.m.t., I observe the sun on the  
meridian; the resulting lat. is 31° 36' N., or within 1'  
of the proper lat.

45.77

47.80

50.90

52.70

74.70

80.00

Trail brs. E. and W.  
Gulch 40 lks. wide course S.E.; ascend.  
Shaft brs. E. 80 lks. dist.  
Trail brs. E. and W.  
Top of E. slope of ridge, descend.  
Set a granite stone, 20 X 10 X 10. ins., 15 ins. in the  
ground, for the 49th mile cor., marked,  
49 M on S.,

B. F. No. 3 on W.,  
P L on E. face, from which  
A cedar, 18 ins. diam., brs. S. 58° E., 20 lks. dist.,  
marked T 21 S R 15 E 49 M B T,  
An oak, 10 ins. diam., brs. S. 76° W., 37 lks. dist.,  
marked B F NO 3 49 M B T,  
An oak, 10 ins. diam., brs. N. 64 1/2° W., 38 lks. dist.,

EAST BOUNDARY OF BACA FLOAT NO. 3.

chains marked B F NO 3 49 M B T,  
An oak, 16 ins. diam., brs. N. 45° E., 127 lks. dist.,  
marked T 21 S R 15 E 49 M B T.  
Land; mountainous.  
Soil; stony and rocky; 4th rate.  
Timber; oak.  
Mountainous land 80.00 chs.

December 14, 1905.

.30  
10.50  
15.70  
16.80  
17.20  
17.80  
26.00  
30.50  
34.35  
36.35  
40.00

December 15: At 8 h., 15 m., a. m., l. m. t., I set off  
31° 36' N. on the lat. arc; and 23° 14' S. on the decl.  
arc; and determine a true meridian with the solar at the  
49 mile cor.

Thence I run

North on the 50th mile.

Over mountainous land; descending into gulch.

Squaw gulch course E.; ascend.

West slope of ridge; descend.

Gulch 40 lks. wide course S.W.; ascend.

Tunnel brs. E. about 140 lks. dist.,

Spring brs. E. 120 lks. dist.

Trail brs. N.E. and S.W.

Spur extends W; thence descend through dense brush.

Gulch 30 lks. wide course S.W.; ascend.

Spur extends W., descend.

Gulch 40 lks. wide course S.S.W; ascend.

Set a porphyrite stone, 24 X 10 X 8 ins., 18 ins. in the  
ground, for the 49 mile cor., marked

49 M on the S.,

B F NO 3 on the W.,

P L on the E., face from which

An oak, 8 ins. diam., brs. N. 23° E., 43 lks. dist.,

marked T 21 S R 15 E 49 M B T,

An oak, 10 ins. diam., brs. N. 18° W., 46 lks. dist.,

marked B F NO 3 49 M B T, and raise a mound of stone, 3  
ft. base, 18 ft. high, W. of cor.

December 15: At this cor. I set off 23° 15' S., on the

decl. arc; and at 11 h. 55 m., a. m. t., observe the sun

on the meridian; the resulting lat. is 31° 37' N. or within  
1' of the proper lat.

Ascend.

58.75

Top of mountain brs. N.E. and S.W.; descend.

65.76

To the N.E. cor. and initial monument of the Baca Float  
No. 3.

Land; mount. ainous.

Soil; stony and rocky; 4th rate.

Timber; oak and scattering juniper.

Brush; oak and laurel.

Mountainous land or land covered with dense brush

65.76 chs.

December 15, 1905.

42  
SOUTH BOUNDARY MINERAL SEGREGATION OF BACA FLOAT NO. 3.

On December 16th. 1905 I proceed to the 46 mile corner on the East boundary of the Baca Float No. 3., and after marking on the stone heretofore set for the corner the additional M S SE COR. on the N.W. face

I proceed to survey the boundaries of the Mineral Segregation of the Baca Float No. 3.

Survey commenced Dec. 16th. 1905 and executed with a W. & L.E. Gurley, light mountain transit No. 4607 with a solar attachment, the horizontal limb of which is provided with two double verniers, placed opposite to each other and reading to single minutes, which is also the least count of the latitude and declination arcs.

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

I examine the adjustments of the instrument and correct the level and collimation errors, then to test the solar apparatus by comparing its indications ~~by~~ resulting from solar observations made during a.m. and p.m. hours. I proceed as follows;

At the 46 mile corner of the Baca Float No. 3 which is also the S.E. corner of the Mineral Segregation, latitude  $31^{\circ} 34' N.$  longitude  $10^{\circ} 51' W.$ , I set off  $23^{\circ} 18' S.$  on the decl. arc and at 3 h., p.m., l.m.t., determine a meridian with the solar and mark a point thereof on a stone firmly set in the ground about 5 chains N. of my station.

Dec. 16th, 1905.

Dec. 17th. At 11:35 a.m. l.m.t., by my watch, I observe Polaris at its western elongation, in accordance with the Manual of Instructions, and mark a point in the line thus determined on a peg firmly driven in the ground about 5 chs. N. of my station.

At 9 h., a.m., l.m.t., I lay off the azimuth of Polaris,  $1^{\circ} 24'$  to the EAST and mark a point in the meridian thus determined by cutting a small groove in the stone set on Dec. 16th., on which the meridian falls 2 ins. east of the mark determined with the solar.

At 9 h. 30 m., A.M., L.M.T., I set off  $31^{\circ} 34' N.$  on the lat. arc and  $23^{\circ} 20' S.$  on the decl. arc and mark a point in the meridian thus determined with the solar by a cross on the stone already set 5 chs. N. of my station. This mark falls 2 ins. east of the meridian established by Polaris observation,

The solar apparatus by p.m. and a.m. observations defines positions for the meridian respectively about  $1'' W.$  and  $1'' E.$  of the meridian established by Polaris observation. Therefore I conclude that the adjustments of the instrument are satisfactory.

The magnetic bearing of the true meridian at 9 h. 50 m. a.m., is  $N. 13^{\circ} 10' W.$ , the angle thus determined gives the magnetic declination  $13^{\circ} - 10' E.$

Thence I run

West on the 1st. mile

Over rolling land, descending through scattering oak and mesquite timber.

15.50  
40.00

Road from Tubac to Patagonia, bears N.W. & S.E.

Set a granite 24 x 8 x 6 ins. 18 ins. in the ground for the  $\frac{1}{2}$  mile corner, marked

$\frac{1}{2}$  M on the E. and

B F NO 3 M S on the N. face, from which

An oak 10 ins. in diam. bears  $N. 33\frac{1}{2}^{\circ} W. 77$  lks. dist. and

An oak 8 ins. in diam. bears  $S. 47\frac{1}{2}^{\circ} E. 36$  lks. dist. both marked B F NO 3 M S  $\frac{1}{2}$  M BT and raise a mound of stone 2 ft.

Chains.

base and 1 1/2 ft. high, <sup>2</sup>/<sub>4</sub> of the corner.  
Dec. 17th. At this corner I set off 23° 20' S. on the decl. arc and at 11 h, 56m 49l.m.t., observe the sun on the meridian, the resulting lat. is 31° 34' N. or within one minute of the proper lat.

- 44.00
- 47.00
- 52.00
- 56.00
- 70.60
- 80.00

Draw, bears N.W.; *ascend.*  
 Ridge, bears N.W. & S.E.; *descend.*  
 Draw course N.W.; *ascend*  
 Ridge, bears N.W. & S.E.; *descend.*  
 Gulch, 40 lks. wide, course S., ascend  
 Set a granite 24 x 8 x 6 ins. 18 ins. in the ground for the 1 mile corner, marked  
 1 M on the E. and  
 B F NO 3 M S ~~1~~ <sup>2</sup> on the N., from which  
 An oak 6 ins. in diam. bears N. 65 1/2° W. 38 lks. dist. and  
 An oak 6 ins. in diam. bears N. 42 1/2° E. 50 lks. dist. and  
 An oak 8 ins. in diam. bears S. 65 1/2° E. 166 lks. dist. and  
 An oak 4 ins. in diam. bears S. 26 1/4° W. 97 lks. dist. all marked B F NO 3-M S 1 M B T., and raise a mound of stone 2 ft. base and 1 1/2 ft. high, <sup>2</sup>/<sub>4</sub> of the corner.  
 Land mountainous and rolling  
 Soil, stony and gravelly, 4th. rate  
 Timber, scattering oak.  
 Undergrowth, oak.  
 Mountainous land 65.00 chs.

December 17th. 1905.

December 18th. At 8 h. 50 m., a.m., 1.m.t., I set off 31° 34' N. on the lat. arc and 23° 21' S. on the decl. arc and determine a true meridian with the solar at the 1 mile corner of the mineral segregation.

- 3.00
- 5.00
- 8.00
- 14.00
- 24.00
- 30.00
- 33.00
- 40.00

Thence I run  
 West on the 2nd. mile.  
 Over mountainous land, ascending  
 Ridge, bears N. & S., descend  
 Gulch, 20 lks. wide, course S., ascend  
 Ridge, bears N. & S., descend  
 Enter gulch, 40 lks. wide, course S.  
 Leave gulch, ascend  
 Spur extending S.E., descend  
 Gulch, 30 lks. wide, course S.E.  
 Set a granite stone 21 x 6 x 6 ins. 16 ins. in the ground for the 1 1/2 mile corner, marked  
 1 1/2 M on the E. and  
 B F NO 3 M S on the N. face, from which  
 An oak 12 ins. in diam. bears *N 76° E. 370 ch. dist.*  
 An oak 10 ins. in diam. bears *S 58° E. 309 ch. dist.*  
 and raise a mound of stone 2 ft. base and 1 1/2 ft. high <sup>2</sup>/<sub>4</sub> of the corner.

Dec. 18th. AT this corner I set off 23° 22' S. on the decl. arc and at 11 h. 57m 49l.m.t., observe the sun on the meridian, the resulting latitude is 31° 34' or within 1' of the proper lat.

- 46.00
- 51.00
- 58.00
- 70.00
- 80.00

Spur, extends S. descend  
 Gulch, 20 lks. wide, course S., ascend ~~km~~  
 Top, bears N. & S. thence level  
 Descend, bears N. & S.  
 Set a granite stone 21 x 8 x 6 ins. 16 ins. in the ground for the 2 mile cor. marked  
 2 M on the E. and  
 B F NO 3 M S on the N., from which  
 An oak 10 ins. in diam. bears *N 40° E. 120 lks. dist.* *an Oak 12 ins. in diam. brs N. 10 W. 85 lks. dist.*  
 An oak 10 ins. in diam. bears *S 58° E. 138 lks. dist.* *an Oak 14 ins. in diam. brs S 18° W. 318 "*  
 And raise a mound of stone 2 ft. base and 1 1/2 ft. high <sup>2</sup>/<sub>4</sub> of the corner.

Land, mountainous  
 Soil, stony and rocky, 4th. rate.  
 Timber, scattering oak  
 Mountainous land 80.00 chains.

December 18th. 1905



SOUTH BOUNDARY OF MINERAL SEGREGATION BACA FLOAT NO.3.

Chains.

December 19th. 1905. At 8 h. 45 m., a.m., l.m.t., I set off  $31^{\circ}34'$  N. on the lat. arc and  $23^{\circ}23'$  S. on the decl. arc and determine a true meridian with the solar at the 2 mile corner.

Thence I run

West on the 3dr. mile.

Over mountainous land, descending.

1.00 Gulch, 20 lks. wide, course S. ascend  
 5.00 Top of S. slope of ridge, descend  
 12.00 Gulch, 40 lks. wide, course S.E. ascend along N. slope of ridge  
 35.00 Ridge, bears N.W. & S.E.  
 40.00 Point for  $2\frac{1}{2}$  mile corner falls on a granite boulder in place 5 x 4 x 2 ft. above the ground. Cut a cross (x) for exact corner point and marked

$2\frac{1}{2}$  M to the E. and

B F NO 3 M S to the N. of the cor., from which  
 An oak 6 ins. in diam. bears  $N.46\frac{1}{2}^{\circ}W.$  98 lks. dist. and  
 An oak 8 ins. in diam. bears  $N.46^{\circ}E.$  67 lks. dist. both marked B F NO 3 M S  $2\frac{1}{2}$  M B T., and raise a mound of stone 2 ft. base and  $1\frac{1}{2}$  ft. high of the corner.

Dec. 19th. At this corner I set off  $23^{\circ}24'$  S. on the decl. arc and at 11 h. 57 m., l.m.t., observe the sun on the meridian, the resulting lat. is  $31^{\circ}34'$  N. or within one minute of the proper lat.

Descending

56.00 Gulch, 20 lks. wide, course S. ascend  
 68.00 Head of draw, course S.  
 75.50 Spur, extending S., descend  
 80.00 Set a granite stone 30 x 12 x 8 ins. 24 ins. in the ground for the 3 mile corner, marked

3 M on the E. and

B F NO 3 M S on the N. face, from which  
 An oak 24 ins. in diam. bears S. 234 lks. dist. and  
 A mesquite 8 ins. in diam. bears  $S.54\frac{1}{2}^{\circ}W.$  330 lks. dist. and  
 An oak 20 ins. in diam. bears  $N.86^{\circ}W.$  137 lks. dist. all marked B F NO 3 M S 3 M B T., and raise a mound of stone 2 ft. base and  $1\frac{1}{2}$  ft. high of the corner.

Land, mountainous

Soil, stony and rocky, 4th. rate

Timber, scattering oak and mesquite

Mountainous land 80.00 chs.

December 19th., 1905.

Dec. 20th. At 8 h. 45 m., a.m., l.m.t., I set off  $31^{\circ}34'$  N. on the lat. arc and  $23^{\circ}24'$  S. on the decl. arc and determine a true meridian with the solar at the 3 mile corner.

Thence I run

West on the 4th. mile,

Over mountainous land, descending through scattering oak and mesquite.

4.20 Gulch, 30 lks. wide, course S.E., ascend  
 26.00 Spur, extends S., descend  
 34.40 Gulch, 30 lks. wide, course S.E., ascend  
 40.00 Set a granite stone 24 x 12 x 10 ins. 18 ins. in the ground for the  $3\frac{1}{2}$  mile corner marked

$3\frac{1}{2}$  M on the E. and

B F NO 3 M S on the N. face from which

An oak 18 ins. in diam. bears  $S.27\frac{1}{2}^{\circ}W.$  67 lks. dist. and  
 An oak 12 ins. in diam. bears  $N.5\frac{1}{2}^{\circ}E.$  21 lks. dist. both marked B F NO 3 M S  $3\frac{1}{2}$  M B T.

43.00 Set a granite stone 24 x 16 x 12 ins. 18 ins. in the ground for the S.W. corner of the Mineral Segregation of Baca Float No.3., marked

B F NO 3 M S SW COR. on the N.E. face, from which

An oak 6 ins. in diam. bears  $N.66\frac{1}{2}^{\circ}E.$  43 lks. dist. and  
 An oak 12 ins. in diam. bears  $S.43\frac{1}{4}^{\circ}E.$  144 lks. dist. and  
 An oak 24 ins. in diam. bears  $S.23^{\circ}E.$  38 lks. dist. and  
 An oak 8 ins. in diam. bears  $N.46^{\circ}W.$  58 lks. dist. all marked B F NO 3 M S SW COR B T., and raise a mound of stone 3 ft. base and 2 ft. high N. of the corner.

WEST BOUNDARY OF MINERAL SEGREGATION OF BACA FLOAT NO. 3.

Chains. At this corner I set off 23°25' S. on the decl. arc and at 11 h. 53 m. 1. m. t., Dec. 20th., observe the sun on the meridian, the resulting lat. is 31°34' N. or identical with the proper lat.

Thence I run North on the 4th. mile Over mountainous land, ascending through scattering mesquite and oak. 8.00 Ridge, bears E. & W., descend over cliffs. 8.20 Bottom, bears E. & W. begin steep descent 17.00 Descend gradually 28.00 Begin steep descent, bears E. & W. 34.50 Gulch, 30 lks. wide, course W. 37.00 Completion of the 4th. mile.

Set a granite stone 24 x 12 x 8 ins. 18 ins. in the ground for the 4 mile corner, marked 4 M on the S. and B F NO 3 M S on the E. face, from which An oak 12 ins. in diam. bears S. 8° W. 261 lks. dist. and An oak 16 ins. bears S. 31 1/4° W. 293 lks. dist. and An oak 16 ins. in diam. bears S. 46° W. 341 lks. dist. and An oak 12 ins. in diam. bears S. 26 1/2° W. 61 lks. dist. all marked B F NO 3 M S 4 M B T., and raise a mound of stone 2 ft. base and 1 1/2 ft. high S. of the cor.

Land mts Soil stony + rocky 4th rate December 20th. 1905

December 21st. At 8 h. 45 m., a.m., 1. m. t., I set off 31°34' N. on the lat. arc and 23°25' S. on the decl. arc and determine a true meridian with the solar at the 4 mile corner.

Thence I run North on the 5 th. mile. Over mountainous land. 1.50 Gulch, 20 lks. wide, course S.W., ascend 15.00 Granite boulder 20 x 10 x 10 ft. on line descend 23.20 Gulch, 20 lks. wide, course S.W., ascend 31.50 Ridge, bears E. & W., descend 40.00 Cut a cross (x) on a granite boulder in place 6 x 2 x 1 ft. above the ground at the exact point for the 4 1/2 mile cor. and marked

4 1/2 M to the S. and B F NO 3 M S to the E. of the cross, from which An oak 10 ins. in diam. bears N. 82° E. 34 lks. dist. and An oak 10 ins. in diam. bears N. 51 1/2° W. 62 lks. dist. both marked B F NO 3 M S 4 1/2 M B T., and raise a mound of stone 2 ft. base and 1 1/2 ft. high S. of the corner.

Dec. 21st. Cloudy weather prevented latitude observation on this date.

42.70 Trail, bears N.E. & S.W. 44.50 Gulch, 30 lks. wide, course S.W., ascend over cliffs 70.00 Top, ascend gradually 80.00 Cut a cross (x) on a granite ledge 6 x 2 x 1 ft. above the ground at the exact point for the 5 mile corner and marked

5 M to the S. and B F NO 3 M S to the E. of the corner, from which An oak 8 ins. in diam. bears S. 45 1/2° E. 67 lks. dist. and An oak 8 ins. in diam. bears N. 59° E. 55 lks. dist. and An oak 24 ins. in diam. bears N. 55° W. 164 lks. dist. and An oak 18 ins. in diam. bears S. 54° W. 219 lks. dist. all marked B F NO 3 M S 5 M B T, and raise a mound of stone 2 ft. base and 1 1/2 ft. high to the S. of the corner.

Land, mountainous Soil, stony and rocky 4th. rate Timber, scattering oak and mesquite. Mountainous land 80.00 chs.

December 21st. 1905

December 22nd. 1905. At 8 h. 35 m., a.m., 1. m. t. I set off 31° 35' N. on the lat. arc and 23° 25' S. on the decl arc and determine a true meridian with the solar

## WEST BOUNDARY OF MINERAL SEGREGATION BACA FLOAT NO. 3.

46

Chains	at the 5 mile corner. Thence I run North on the 6th mile, over mountainous land, through scattering oak timber. Descending.
7.00	Head of draw, course E., ascend
8.50	Ridge, bears E. & W., descend
12.00	Gulch, 20 lks. wide, course E., ascend
13.90	Top of mountain bears E. & W., descend steeply
22.00	Descend more gradually
40.00	Set a granite stone 21 x 8 x 6 ins. 16 ins. in the ground for the 5½ mile corner, marked 5½ M on the S. and B F NO 3 M S on the E. face, from which A mesquite 5 ins. in diam. brs. S. 59° E. 35 lks. dist. and A mesquite 4 ins. in diam. brs. N. 52° W. 234 lks. dist., both marked B F NO 3 M S 5½ M B T, and raise a mound of stone 2 ft. base and 1½ ft. high of the corner. At this corner I set off 23° 25' S. on the decl. arc and at 12 h. 5 m., l.m.t., I observe the sun on the meridian, the resulting lat. is 31° 35' N. or within one minute of the proper lat.
55.50	Enter draw, course N. W. descend
64.00	Leave draw, course N. W., descend
74.00	Gulch or draw, course E.
76.00	Spur extending E., descend
80.00	Set a granite stone 24 x 12 x 6 ins. 18 ins. in the ground for the 6 mile corner, marked 6 M on the S. and B F NO 3 M S on the E. face, from which An oak 6 ins. in diam. brs. S. 71° E., 117 lks. dist., and An oak 8 ins. in diam. brs. S. 42° W., 74 lks. dist., and An oak 12 ins. in diam. brs. N. 30½° W. 85 lks. dist., and An oak 7 ins. in diam. brs. N. 20½° E., 56 lks. dist., all marked B F NO 3 M S 6 M B T. Land, mountainous Soil, stony and rocky, 4th rate. Timber, scattering oak and mesquite Mountainous land 80 chains.
	December 22nd, 1905.
	Dec. 23rd. At 8 h. 45 m., a.m., l.m.t., I set off 31° 36' N. on the lat. arc and 23° 25' S. on the decl. arc and determine a true meridian with the solar at the 6 mile cor. Thence I run North on the 7th mile, Over rolling land, descending through scattering oak and mesquite timber.
6.20	Enter creek, 30 lks. wide, course N.
10.40	Leave creek, course N. W.
12.40	Wire fence, bears E. & W.
12.60	Road from Patagonia to Tubac, bears E. & W.
25.00	Gulch, 40 lks. wide, course S. W., ascend
40.00	Set a granite stone 21 x 10 x 6 ins. 14 ins. in the ground for the 6½ mile corner, marked 6½ M on the S. and B F NO 3 M S on the E. face, from which A mesquite 8 ins. in diam. brs. N. 50½° E. 202 lks. dist., and A mesquite 4 ins. in diam. brs. N. 79½° E. 288 lks. dist., both marked B F NO 3 M S 6½ M B T, and raise a mound of stone 3 ft. base and 2 ft. high of the corner. Dec. 23rd. At this corner I set off 23° 25' S. on the decl. arc and at 11 h 52 m., l.m.t., observe the sun on the meridian, the resulting lat. is 31° 36' N. or within one minute of the proper lat.
44.00	Ridge, bears N. E. and S. W., descend
51.00	Gulch, 30 lks. wide, course S. W., ascend
64.00	Top bears E. and W., thence level
75.00	Begin descent

47

## WEST BOUNDARY OF MINERAL SEGREGATION BACA FLOAT NO. 3.

Chains  
80.00

Cut a cross (X) on a granite boulder in place 12x12x12 ins. above the ground at the exact point for the 7 mile cor. and mark

7 M on the S. and

B F NO 3 M S on the E. face, from which

An oak 16 ins. in diam. brs. N. 85° E., 207 lks. dist., and

An oak 6 ins. in diam. brs. N. 82° E., 73 lks. dist., and

An oak 12 ins. in diam. brs. N. 30½° W., 93 lks. dist., and

An oak 6 ins. in diam. brs. S. 44½° W., 203 lks. dist., all marked B F NO 3 M S 7 M B T, and raise a mound of stone 2 ft. base and 1½ ft. high <sup>E</sup> of corner.

Land, mountainous

Soil, stony and rocky, 4th rate.

Timber, scattering oak and mesquite.

Mountainous land 80 chs.

December 23rd, 1905.

December 24th, 1905. At 9h a.m., l.m.t., I set off 31° 37' N. on the lat. arc and 23° 24' S. on the decl. arc and determine a true meridian with the solar at the 7 mile cor.

Thence I run

North on the 8th mile.

Over rolling land, descending, through scattering timber.

4.80 Gulch, 30 lks. wide, course S. W., ascend

15.20 Ascend gradually

20.10 Ridge, bears E. and W., descend

25.80 Gulch, 60 lks. wide, course S. S. W., ascend

28.82 Intersect the N. bdy. of the Baca Float No. 3 at a point from which the 3½ mile cor. bears E. 3.14 lks. dist. Set a granite stone 30 x 20 x 20 ins. in a mound of stone marked C C on the S. and

B F NO 3 M S N W COR on the S. E. <sup>Edge</sup> face, and raise a mound of stone 3 ft. base 2 ft. high S. of the corner.

December 24th, 1905.

N O T E:

In order to include the mineral lands lying adjacent to the Hacienda de Santa Rita, I found it necessary to extend the mineral segregation one-half mile further W.

GENERAL DESCRIPTION.

The Baca Float No. 3, embraces portions of Tps. 21, 22 and 23 S. R's. 13, 14 and 15 E. of the Gila & Salt River Base and Meridian, also portions of the Tuma-cacori and Calabagas Land Grants, (unconfirmed) and a portion of the San Jose de Sonoita Land Grant (confirmed) and is situated in Santa Cruz County, Arizona.

The Salero and Alto Mines, and other mining claims are situated in the northeastern portion of the grant. Most of these claims have been worked since 1860.

The land generally, is suitable for grazing purposes while a great portion of the land along the Santa Cruz Valley, and within this grant, is suitable for agricultural purposes. Many settlers have located within this grant, and are cultivating the land. The grant is well watered by a number of springs, and also by the Santa Cruz River and Sonoita Creek. There is oak timber in the northeastern portion and cottonwood, mesquite and ash is along the Santa Cruz River and Sonoita Creek. The New Mexico & Arizona Railroad runs through the southeastern portion of the grant.

*Philip Couzger*

U. S. Deputy Surveyor.

## RETRACEMENT OF BOUNDARIES OF TUMACACORI AND CALABAGAS GRANTS.

48

Chains

In order to enable me to close the N.E.&S.W. portions of the Baca Float No. 3, I discontinue the survey of the exteriors temporarily and proceed to retrace the boundaries of the Calabagas and Tumacacori Land Grants.

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Survey commenced November 14th, 1905.

Proceed to the Post No.1 of the Tumacacori Private Land Grant (Fundo Legal) heretofore described in these notes. November 14th. At this corner I set off  $31^{\circ} 36'$  N. on the lat. arc and  $18^{\circ} 25'$  S. on the decl. arc and at 9h., a.m., l.m.t. determine a true meridian with the solar.

Thence I run

East on a random line.

Across the Santa Cruz Valley through scat. mesquite.

8.80

Santa Cruz River 1 ch. wide, course N.

47.20

Road, bears N. and S.

90.60

Begin steep ascent, leaving valley

93.50

Top of mesa, bears N. & S. Thence over level & rolling land

160.15

Fall 21 lks. S. of the remains of Post No. 3 of the Fundo Legal which is a mound of stone 4 ft. base and 2 ft. high, with the decayed remains of a 4 x 4 post in the center.

From this I determine the true course and distance of this portion of the North Boundary of the Fundo Legal to be  $N. 89^{\circ} 55' E.$ , 160.15 chs.

Nov. 14th. At this corner I set off  $18^{\circ} 12'$  S. on the decl. arc and at 11h 45m. l.m.t., observe the sun on the meridian, the resulting lat. is  $31^{\circ} 36'$  N. or within one minute of the proper lat.

Thence I run South on a random line from Post No. 3 of the Fundo Legal.

Over rolling land, ascending, through scattering mesquite timber and underbrush

102.90

Fall 35 lks. W. of a 4x4 mesquite post in a mound of stone marked T C P L C F L A, being the angle corner of the East boundary of the Fundo Legal.

From this I determine the true course of this line to be  $S. 0^{\circ} 12' E.$ , 102.90 chs.

November 14th, 1905.

-----  
November 15th.

I return to Post No. 1 of the Fundo Legal and at 9h. a.m., l.m.t., I set off  $31^{\circ} 36'$  N. on the lat. arc and  $18^{\circ} 25'$  S. on the decl. arc and determine a true meridian with the solar at Post No. 1.

Thence I run  $S. 89^{\circ} 55'$  W. on a random line

Over level land through dense mesquite timber.

9.00

Leave Santa Cruz Valley, begin ascent, bears N. & S.

10.80

Top of mesa, bears N. & S., thence over rolling land

77.59

Fall 10 lks. S. of Post No. 2 of the Fundo Legal.

From this I determine the true course and distance of this line to be  $S. 89^{\circ} 59' W.$ , 77.59 chs.

Nov. 15th. At this corner I set off  $18^{\circ} 21'$  S. on the decl. arc and at 11h 45m. l.m.t., observe the sun on the meridian, the resulting lat. is  $31^{\circ} 36'$  N. or within one minute of the proper lat.

Thence I run South on a random line from Post No. 2 of the Fundo Legal.

Over rolling land, through scattering mesquite timber.

103.89

Fall 17 lks. E. of a mesquite post 4x4 ins. in mound of stone marked T C P L C F L A, being the angle corner on the West boundary of the Fundo Legal.

From this I determine the true course of this line to be  $S. 0^{\circ} 06' W.$ , 103.89 chs.

November 15th, 1905.

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November 16th, 1905. At 8h 45m., a.m., l.m.t., I set off  $31^{\circ} 34'$  N. on the lat. arc and  $18^{\circ} 40'$  S. on the decl. arc and determine a true meridian with the solar at the Post

RETRACEMENT OF BOUNDARIES OF TUMACACORI AND CALABASAS GRANTS.

Chains marking the angle corner in the west boundary of the Tumacacori Grant (Fundo Legal)  
 Thence I run  
 S. 25° 37' E. on a random line.  
 Over rolling land.  
 80.00 Raise mound of stone on N.slope of hill to mark 1 mile.  
 At this point I set off 18°43'S. on the decl.arc and at 11h.45m., l.m.t., observe the sun on the meridian, the resulting lat. is 31°35' N. or within one minute of the proper lat.  
 Thence I continue S. 25° 37' E.  
 160.00 Raise a mound of stone on top of spur extending N.E. to mark the 2 mile point  
 182.00 Raise a mound of stone to mark line. From this point the dome of the Tumacacori Missions bears due N. about 3 miles distant.

November 16th, 1905.

-----  
 November 17th.

At 9h., a.m., l.m.t., I set off 31°35' N. on the lat. arc and 18°54'S. on the decl. arc and determine a true meridian with the solar at the 182 chain point marked on the 16th.  
 Thence I continue S. 25° 37' E.  
 240.00 Raise mound of stone in canyon to mark 3 mile point  
 320.00 Raise mound of stone on S. slope of mesa to mark 4 mile point.  
 At this point I set off 18°54'S. on the decl. arc and at 12h., l.m.t., I observe the sun on the meridian, the resulting lat. is 31°31' N. or within one minute of the proper lat.  
 400.00 Raise a mound of stone to mark the 5 mile point.

November 17th, 1905.

-----  
 November 18th, 1905.

At 8h 45m., a.m., l.m.t., I set off 31°31' N. on the lat. arc and 19°09'S. on the decl. arc and determine a true meridian with the solar at the 5 mile point marked on the 17th.  
 Thence I continue S. 25° 37' E. on a random line.  
 480.00 Raise mound of stone to mark 6 mile point.  
 560.00 Raise mound of stone to mark 7 mile point.  
 640.00 Raise mound of stone to mark 8 mile point.  
 At this point I set off 19°14'S. on the decl. arc and at 12h observe the sun on the meridian, the resulting lat. is 31°28' N. or within one minute of the proper lat.  
 722.10 Fall 112 lks. S.W. of Post V of the Fundo Legal.  
 From this I determine the true course of this line to be S. 25° 42' E. 772.10 chs.

Thence I run  
 S. 43° W. on a random line to determine the N. boundary of the Calabazas Grant.

Over rolling land ascending  
 40.00 Raise mound of stone to mark 1/4 mile point.  
 80.00 Raise mound of stone to mark 1 mile point.  
 111.08 Fall 16 lks. S.E. of the remains of Post N.W. Cor. of the Calabazas Grant (Estancia) which consists of the decayed remains of a 4 x 4 post in mound of stone.  
 From this I determine the true course of this line to be S. 43° 05' W. 111.08 chs.

November 18th, 1905.  
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## RETRACEMENT OF THE BOUNDARIES OF THE TUMACACORI AND CALABASAS GRANTS

50

November 19th. 1905.

I return to Post V. of the Fundo Legal.

At 9h, 25 m., a.m., l.m.t., I set off  $31^{\circ}-27'$  N. on the lat. arc and  $19^{\circ}-24'$  S. on the decl. arc and determine a true meridian with the solar at Post V of the Fundo Legal.

Thence I run

N.  $43^{\circ}-5'$  E. on a random line.

- 6.00 Enter Calabagas Canyon, course N.E.  
 40.00 Raise mound of stone to mark  $\frac{1}{2}$  mile point  
 54.70 Leave canyon, ascend  
 58.00 Ridge, bears N.E.  
 87.00 Enter Santa Cruz Valley  
 120.00 Falls in cultivated field. Search diligently for traces of the center post common to both the Tumacacori and Calabagas Grants but fail to find any,  
 At this point I set off  $19^{\circ}-26'$  S. on the decl. arc and at 11 h, 45 m., l.m.t., observe the sun on the meridian, the resulting lat. is  $31^{\circ}-28'$  N. or within one minute of the proper lat.  
 Thence I continue N.  $43^{\circ}-5'$  E. on random line  
 138.00 Santa Cruz River, 1 ch. wide, course N.W.  
 155.00 Road from Tucson to Nogales, bears N. & S.  
 161.58 Calabagas Hotel on line.  
 240.00 Raise mound of stone to mark 3 mile cor.

November 19th. 1905

November 20th. 1905

At 9 H. 30 M., a.m., l.m.t., I set off  $31^{\circ}-29'$  N. on the lat. arc and  $19^{\circ}-38'$  S. on the decl. arc. and determine a true meridian with the solar at the 3 mile point set on the 19th.

Thence I continue

N  $43^{\circ}-5'$  E. on random line.

- 320.00 Raise mound of stone to mark the 4 mile point  
 355.40 Fall 38 lks. N.W. of the Post N.E. cor. of the Calabagas Grant.  
 From this I determine the true course and distance of this line to be N.  $43^{\circ}-8'$  E. 355.40 chs.

Thence I run

S.  $43^{\circ}-8'$  W.

- 14.00 Find no traces of Post IV of the Fundo Legal.

Then I return to Post N.E. cor. of the Estancia or Calabagas Grant.

At this corner I set off  $19^{\circ}-40'$  S. on the decl. arc and at 11 h. 45 M., l.m.t., observe the sun on the meridian, the resulting lat. is  $31^{\circ}-30'$  N. or within ~~one~~ minutes of the proper lat.

Thence I run

S.  $47^{\circ}$  E. on a random line.

- 80.00 Raise mound of stone for 1 mile point.  
 160.00 Raise mound of stone to mark the 2 mile point

November 20th. 1905

November 21st. 1905.

At 9 h., a.m., l.m.t., I set off  $31^{\circ}-29'$  N. on the lat. arc and  $19^{\circ}-51'$  S. on the decl. arc and determine a true meridian with the solar at the 2 mile point set on the 20th.

Thence I continue

S.  $47^{\circ}$  E. on a random line

- 240.00 Raise mound of stone for the 3 mile point.  
 320.00 Raise mound of stone to mark the 4 mile point.  
 400.00 Raise mound of stone to mark the 5 mile point.  
 480.00 Raise a mound of stone to mark the 6 mile point.  
 At this point I set off  $19^{\circ}-53'$  S. on the decl. arc and at 11 h. 46 M., a.m., l.m.t., observe the sun on the meridian, the resulting lat. is  $31^{\circ}-26'$  N. or identical with the proper lat  
 At this point I cease measurement but continue line S.  $47^{\circ}$  E.  
 and fall 75 lks. N.E. of Post S.E. Cor of Calabagas Grant.  
 From this I determine true course to be S.  $46^{\circ}-55'$  E.

55

57

*Philip Cantley*

U. S. Deputy Surveyor.



RETRACEMENTS CONNECTED WITH BACA FLOAT NO.3.

52-1

Tumacacori Grant

January 4th. 1906,

Finding it necessary to make further retracements of the lines of the Tumacacori Private Land Grant (Fundo Legal) and of the Preliminary Survey of the San Jose de Sonoita Private Land Claim as surveyed by J.L.Harris in the year 1880, in order to properly plat same and for the purpose of calculating the areas of the conflicts between those grants and the Baca Float No.3, I now proceed to the Northern angle corner of the Eastern Boundary of the Tumacacori Grant where I set off 31° 34' N on the lat. arc, and 22° 44' S on the decl. arc and determine a true meridian with the solar. AT 9 h 30 m. l.m.t  
Thence I run S. 26° - 12' E.

Chains.  
44.00  
62.00  
300.00

Enter Josephine Canyon  
Leave same, thence over broken land  
Raise a mound of stone  
At this point, I set off 22° 45' S on the decl. arc and at 10 h. 5 m. l.m.t., I observe the sun on the meridian, the resulting lat. is 31° 32' or within one minute of the proper lat.

551.20

Fall 290 lks. S.W. of an angle corner of said Eastern boundary of the Tumacacori Land Grant (Fundo Legal) which is an old pine post 4x4x24 ins. above the ground in a mound of stone, partially rotted away but with the letters L.C.F.L.A, still distinguishable.  
From this measurement and falling I determine the true course of the line to be S.26°-30'E.551.20 chs.

From this corner  
I run N.53°E.

94.75

Over rolling and broken land ascending  
Fall 12 lks. North of post 4 x 4 x 24 ins. above the ground in a mound of stone marked T C P L C F L A, which marks another angle point in said Eastern boundary.  
From this measurement and falling I determine the true course and distance of this line to be N.53°-04'E.94.75

From this corner  
I run S.26°-12' E.

13.94

Over broken land descending  
Traces of corner or Post. NO.4 of the Tumacacori Grant hereinbefore described.

January 4th. 1906

San Jose de Sonoita Grant.

January 6th.1906

I now proceed to the angle point of the Southern Boundary of the preliminary Survey of the San Jose de Sonoita Private Land Grant on the San Cayetano Mountain.

At this corner I set off 31° 30' N on the lat. arc and 22° 31' S on the decl. arc and at 9 h. A.M.l.m.t., I determine a true meridian with the solar

Thence I run S.73°-55'W.

Over mountainous land, descending  
Closing corner of the Baca Float No.3.

3.40  
151.20

Post 4 x 4 x 24 ins. above the ground in a mound of stone marked S P L C A.

Thence I run from this corner  
S.30°-1'W.

62.70

Fall 28 lks. S.E. of the remains corner No.8 of said preliminary survey, which is a rotted stump of a post in a depapitated mound of stone. I proceed to rebuild mound.  
From this measurement and falling I determine the true course of this line to be S.30°-16'W. 62.70 chs.

94  
53

RETRACEMENTS. CONNECTED WITH BACA FLOAT NO. 3

52.26 From this corner I run N.49°-30W  
 104.78 Post No.6 of the preliminary survey on line  
 Post No.7 of said survey on line.  
 At this corner I set off 22° 31' S on the decl. arc and at  
 6 h. 6 m. 1. m. t., I observe the sun on the meridian, the  
 resulting latitude is 31° 29' or identical with the proper lat.

101.20 Thence I run N.38°-03'E.  
 Fall 25' lks. NW. of remains of the post marking an angle  
 post in the Northern boundary of the grant. From this  
 measurement and falling I determine the true course and dis-  
 tance of this line to be N.38°-17'E. 101.20 chains.

183.73 From this corner I run  
 N.73°-45'E.  
 Fall 57 lks. S.E. of the remains of the post marking another  
 angle in the Northern Boundary of the grant.  
 From this measurement I determine the true course and dis-  
 tance of this line to be N.73°-34'E. 183.73 chs.

14.18 From this corner I run  
 N.78°-18'E.  
 151.98 Closing corner of the Baca Float No.3.  
 Post marking another angle point in the Northern Boundary  
 of said preliminary survey.

January 6th. 1906.

*Philip Couzner*  
*U. S. Deputy Surveyor*

Latitudes, departures and closing errors of the BOOK 2508  
Baca Float No. 3.

Course	Distance	Latitudes		Departures	
		N.	S.	E.	W.
	chs.	chs.	chs.	chs.	chs.
West	996.44				996.44
S. 0° 3' 11" E.	996.44		996.44	.90	
East	996.44			996.44	
North	996.44	996.44			
Totals		996.44	996.44	997.34	996.44
				996.44	
Error of Dep.				.90	

Latitudes, departures and closing errors  
of the  
Mineral Segregation of the Back Float No. 3.

Course	Distance	Latitudes		Departures	
		N.	S.	E.	W.
	chs.	chs.	chs.	chs.	chs.
South	305.76		305.76		
West	283.00				283.00
North	305.82	305.82			
East	283.14			283.14	
Totals		305.82	305.76	283.14	283.00
		305.76		283.00	
Error of Lat.		.06			
Error of Dep.				.14	

Latitudes, departures and Closing Errors of a Portion  
of the Tumacacori Private Land Grant, unconfirmed,  
in conflict with Baca Float No. 3.

Course	Distance	Latitudes		Departures	
		N.	S.	E.	W.
	chs.	chs.	chs.	chs.	chs.
East	.78			.78	
N. 89° 55' E	160.15	.21		160.15	
S. 0° 12' E.	102.90		102.90	.35	
S. 26° 30' E.	551.20		493.29	245.95	
N. 53° 04' E.	94.75	56.93		75.74	
S. 26° 12' E.	13.94		12.51	6.15	
S. 43° 08' W.	341.40		249.14		233.42
N. 25° 42' W.	594.30	535.51			257.72
N. 0° 3' 11" W.	264.43	264.27			.24
Totals,		856.90	857.84	489.12	491.38
			856.92		489.12
Error of Lat.			.92		
Error of Dep.					2.26

Latitudes, departures, and closing errors of a Portion  
of the Calabazas Private Land Grant Unconfirmed in  
conflict with the Baca Float No. 3.

Course	Distance	Latitudes		Departures	
		N.	S.	E.	W.
	chs.	chs.	chs.	chs.	chs.
N. 43° 05' E.	92.61	67.64		63.26	
N. 43° 08' E.	355.40	259.36		242.99	
S. 46° 55' E.	481.60		328.76	351.93	
West	658.59				658.59
<b>Totals</b>		327.00	328.76	658.18	658.59
			327.00		658.18
Error of Lat.			1.76		
Error of Dep.					0.41

Table latitudes, departures and Closing Errors  
of a portion of the  
San Jose de Sonoita Private Land Grant, confirmed, in  
conflict with Baca Float No. 3.

Course	Distance	Latitudes		Departures	
		N.	S.	E.	W.
	chs.	chs.	chs.	chs.	chs.
S. 72° W.	328.50		101.51		312.42
S. 68° 16' E.	117.27		43.42	108.93	
N. 70° E.	216.74	74.13		203.66	
North	70.62	70.62			
<b>Totals,</b>		144.75	144.93	312.59	312.42
Error in Lat.			0.18		
Error in Dep.				0.17	

Latitudes, departures and closing errors  
of a portion of the  
San Jose de Sonoita Private Land Grant (unconfirmed)  
in conflict with Baca Float No. 3.

Course	Distance chs.	Latitudes		Departures	
		N. chs.	S. chs.	E. chs.	W. chs.
S. 73° 55' W.	147.80		40.95		142.02
S. 30° 16' W.	62.70		54.15		31.60
N. 49° 30' W.	104.78	68.07			79.68
N. 38° 17' E.	101.20	79.44		62.70	
N. 73° 34' E.	183.73	51.98		176.22	
N. 78° 18' E.	14.18	2.88		13.89	
South	106.14		106.14		
Totals		202.37	201.24	252.81	253.30
		201.24			252.81
Error in Lat.		1.13			
Error in Dep.					0.49



FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

BOOK 2503

LIST OF NAMES.

A list of the names of the individuals employed by Philip Conroy

Philip Conroy, United States Deputy Surveyor, to assist in running, measuring, and

marking the lines and corners described in the foregoing field notes of the survey of the boundaries of

showing the respective capacities in which they acted:

Walter Percival, Chainman.

John M. Gray, Chainman.

H. B. Milliken, Moundman.

William C. Mallory, Moundman.

James S. Warren, Axman.

James A. Blair, Axman.

Arthur Pogue, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Philip Conroy

Philip Conroy, United States Deputy Surveyor, in surveying all

those parts or portions of the boundaries of Salt River Base

Meridian and the lines of the Survey and the lines of the Survey and the lines of the Survey of the Gila and

Salt River Base Meridian, Territory of Arizona, which are represented

in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor

General for Arizona.

Walter Percival, Chainman.

John M. Gray, Chainman.

H. B. Milliken, Moundman.

William C. Mallory, Moundman.

James S. Warren, Axman.

James A. Blair, Axman.

Arthur Pogue, Flagman.

Subscribed and sworn to before me this 31

day of April, 189 1905.

H. G. Powers



FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Philip Contzen, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from Wm. A. Brown United States Surveyor General for Arizona, bearing date of the 17th day of June, 1895, 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 boundaries of the land grants No. 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 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541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000 of the Gila and Salt River Base of meridian, in the Territory of Arizona, which 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 survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written 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 original field notes of such survey; and should any fraud be detected, I will suffer the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

Philip Contzen  
United States Deputy Surveyor.

Subscribed by said Philip Contzen, and sworn to before me }  
this 2nd day of July 1906



Roscoe Dale  
Commissioner

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Phoenix AZ, Nov 23<sup>rd</sup> 1906, 1899

The foregoing field notes of the survey of the boundaries of the Baca Grant retractment of the No. 3. Extentors of the Samacacori, Calabazas and San Jose de Senoita land grants, and survey of Mineral Segm- gation of the Gila and Salt River Base and Meridian Territory of Arizona

executed by Philip Contzen  
under his contract No. 136, dated June 17 1905, 1899, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Frank A. Lyall  
United States Surveyor General.

I certify that the foregoing transcript of the field notes of the above-described surveys in \_\_\_\_\_, has been correctly copied from the original notes on file in this office.

\_\_\_\_\_  
United States Surveyor General.

# Supplemental. FIELD NOTES

OF THE SURVEY OF THE

Re-establishment of the correct position of  
certain corners on the west bdy. of  
Baca Sloat No. 3. and retracement of bdy's  
of Subac Townsite.

Of the Y & A R. B & X Meridian,

AS SURVEYED BY

Philip Contzen

, United States Deputy Surveyor,

Under his Contract No. 136, dated June 12th, 1905.

Survey commenced June 3rd, 1907

Survey completed June 5th, 1907

NAMES AND DUTIES OF ASSISTANTS.

C. B. Neiswender Chairman

Will Allen "

J. H. Boley Flagman  
J. W. Boley Atman

CORRECTIONS. BACA FLOAT NO.3. RETRACEMENT TUBAC TOWNSITE.

INDEX.

MILE.	PAGE.
14th -----	1
15th -----	1
16th -----	2
17th -----	2
18th -----	3
19th -----	4
20th -----	5
21st -----	5
22nd -----	6
23rd -----	7
24th, -----	7

BOUNDARIES,  
TUBAC TOWNSITE.

East Bdy. -----	9
South " -----	9
West " -----	9
North " -----	9

# INDEX DIAGRAM.

*Township*....., *Range*.....

6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

*Meanders Page*.....

114  
65

PRELIMINARY OATHS OF ASSISTANTS.

WE, B. Neiswender and Will Allen

do solemnly swear that we will well and faithfully execute the duties of chainmen; 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 distances 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

re-establishment of correct position of certain corners on the W. bdy of Paca Float No. 3, and retracement of bdy of Tubac Id.

B. Neiswender, Chainman.

Will Allen, Chainman.

Subscribed and sworn to before me this 1st day of June, 1907



W. G. Power

Notary Public, Pima County, Arizona Territory.  
My Commission Expires April 27th 1908

WE, \_\_\_\_\_ and \_\_\_\_\_

do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of

\_\_\_\_\_, Moundman.

\_\_\_\_\_, Moundman.

Subscribed and sworn to before me this 1st day of \_\_\_\_\_, 1907



WE, J. N. Boley and \_\_\_\_\_

do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of

re-establishment of correct position of certain cor. on the W. bdy. of Paca Float No. 3, and retracement of bdy of Tubac Id.

J. N. Boley, Axman.  
\_\_\_\_\_, Axman.

Subscribed and sworn to before me this 1st day of June, 1907



W. G. Power

Notary Public, Pima County, Arizona Territory.  
My Commission Expires April 27th 1908

I, J. N. Boley, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the

survey of re-establishment of correct position of certain cor. on W. bdy of Paca Float No. 3, and retracement of bdy of Tubac Id.

J. N. Boley, Flagman.

Subscribed and sworn to before me this 1st day of June, 1907



W. G. Power

Notary Public, Pima County, Arizona Territory.  
My Commission Expires April 27th 1908

CORRECTIONS. — BACA FLOAT NO. 3. RETRACEMENT OF TUBAO TOWNSITE.

115  
(66)

0.00  
0.15  
0.30  
0.45  
1.00  
6.00  
6.85  
6.95  
21.00  
25.30  
26.00  
27.70  
28.85  
33.45  
38.60  
40.00  
46.90  
47.00  
59.26  
60.00  
62.10  
69.80  
73.75

In order to equalize the long measurement on the South half of the 14th mile, which proved to be 1 chain long, and the North 1/2 of the 25th mile, which was 1 chain short, on the West boundary of the Baca Float No. 3, I proceeded to the 14 mile corner.

June 3rd. At 7:30 a.m., l.m.t., I set off 31°36' N. on the lat. arc; 82° 14' N. on the decl. arc; and determine a true meridian with the solar.

I commenced at the above named 14 mile corner, which is described in my original field notes. Knowing that the distance from the 13-1/2 mile corner to the 14 mile corner is 1 chain too long, I ran,  
S. 0° 3' 11" W.

Set a sandstone 24 x 12 x 10 ins., 18 ins. in the ground, for 14 mile cor., marked B F No. 3 on E. face, P L on W. face and 14 M on S face, from which,  
A mesquite, 24 ins. diam., brs. S. 8° E., 166 lks. dist., marked B F No. 3 14 M B T.  
A mesquite, 24 ins. diam., brs. S. 30° E., 166 lks. dist., marked B F No. 3 14 M B T.  
A mesquite, 23 ins. diam., brs. S. 50° W., 149 lks. dist., marked T 21 S R 13 E S 19 14 M B T.  
A mesquite, 23 ins. diam., brs. S. 50° W., 149 lks. dist., marked T 21 S R 13 E S 19 14 M B T.

Thence I run,  
S. 0° 3' 11" E., on 15th mile.  
Over level land, through scattering mesquite timber and dense undergrowth.

Adobe house, 160 lks. E.  
Wire fence brs. E. and W.  
Intersect the North Boundary of the Tumacaocori Private Land Grant (Fundo Legal) at a point from which Post No. 1 of said Grant brs. N. 89° 59' E., 78 lks. dist.

Set a granite stone 24 x 12 x 12 ins., 18 ins. in the ground for closing corner of Baca Float No. 3, marked C C on the N, T G on the S, and B F No. 3 on the E. face, from which,  
A mesquite, 16 ins. in diam., brs. S. 5° 45' W., 131 lks. dist., marked T 21 S, R 13 E, S 19 T G B T.  
A mesquite, 12 ins. diam., brs. N. 19-1/4° E., 28 lks. dist., marked B F No. 3 B T.

Road, brs. NE. and SW.  
Road brs. NE. and SW.  
Thomas Gota's house, 3 chs. W.  
Brush fence brs. E. and W.; leave mesquite; enter garden.  
Brush fence brs. NE. and SW.; leave garden, enter dense sunflowers.

Wire fence, brs. E. and W.  
Jose Villa's house, 5.50 chs. W.  
Set a malpais stone, 28 x 8 x 8 ins., 21 ins. in the ground for the 14-1/2 mile corner, marked B F No. 3 on E. face, P L on W. face, and 14-1/2 M on S. face; dig pits 36 x 36 x 12 ins. N. and S. of cor., and raise a mound of earth 4 ft. base, 2 ft. high, East of corner.  
Intersect line bet. secs. 19 and 30, T. 21 S., R. 13 E. at a point from which the 1/4 sec. cor., as witnessed and described by the Surveyor-General, brs. S. 89° 50' W., 5.82 chs. dist.

A malpais stone 24 x 8 x 8 ins., 18 ins. in the ground for closing corner to secs. 19 and 30, marked C C on the W, B F No 3 on the E, S 19 on the N and S 30 on the S face; dig pits 36 x 36 x 12 ins., N. and S. 3 ft. dist and W. of stone 7 ft. dist., and raised a mound of earth 5 ft. base, 2-1/2 ft. high, W. of corner.  
Wire fence, brs. E. and W., enter garden.

Adobe house, 5 chs. W.  
Wire fence brs. E. and W.; leave garden, enter heavy mesquite timber and undergrowth.  
Wire fence, brs. E. and NW.  
Dry wash, 80 lks. wide, course E.

For this cor see my notes page 12

For this mile see original notes page 13

NG & JW

115  
66



CORRECTIONS - BACA FLOAT NO. 3. RETRACEMENT OF TUBAC TOWNSITE.

Chains.  
79.00  
80.00

Dry wash, 100 lks. wide, course E.  
 A sandstone 30 x 10 x 10 ins., 22-1/2 ins. in the ground, previously set, for 15 mile cor.; marked B F No. 3 on E face, P L on W face, and 15 M on N. face, from which,  
 A mesquite, 8 ins. diam., brs. S. 16° 15' E., 88 lks. dist., marked B F No 3 15 M B T.  
 A mesquite, 8 ins. diam., brs. S. 8° 30' E., 87-1/2 lks. dist., marked B F No. 3 15 M B T.  
 A mesquite, 10 ins. diam., brs. S. 44° W., 129 lks. dist., marked T 21 S R 13 E S 30 15 M B T.  
 A mesquite, 7 ins. diam., brs. S. 69° 45' W., 31 lks. dist., marked T 21 S R 13 E S 30 15 M B T.  
 This cor. was old W C; I destroyed letters W C on said cor., and B Ts.  
 Soil, rich, sandy loam; 1st and 2nd rate.  
 Timber, mesquite; undergrowth, mesquite, tesota and sun-flowers.  
 Heavy timber and dense undergrowth, 75.95 chs.

S. 0° 3' 11" E., on 16th mile.  
 Over level land, through heavy mesquite timber and dense undergrowth.

1.00  
2.10  
7.60  
7.71  
26.55  
28.00  
29.00  
31.00  
32.50  
37.00  
40.00

Dry wash, 20 lks. wide, course E.  
 Dry wash, 25 lks. wide, course E.  
 Road, brs. E. and W.; Edwards' house, 10 chs. E.  
 Wire fence brs. E. and W.  
 Road, brs. SE. and NW.  
 Courtyard of Mission, 2 chs. E.  
 Graves in courtyard, 2 chs. E.  
 Tumacacori Mission, 2 chs. E.  
 Adobe house, 4.00 chs. E. 35.86 Telephone line brs. NW. & SE.  
 Adobe house, 120 lks. E.

Set a malpais stone, 24 x 12 x 12 ins., 18 ins. in the ground, for 15-1/8 mile cor., marked B F No. 3 on E. face, P L on W face, and 15-1/8 M on N. face, from which  
 A mesquite, 14 ins. diam., brs. S. 3° 45' E., 101-1/2 lks. dist., marked B F No. 3 15-1/8 M B T.  
 A mesquite, 14 ins. diam., brs. S. 76° 50' W., 127 lks. dist., marked T 21 S R 13 E S 30 15-1/8 M B T.  
 46.70 Intersect line bet. secs. 30 and 31, Tp. 21 S., R. 13 E., at a point from which the 1/4 sec. cor. as witnessed and described by the Surveyor-General brs. S. 89° 46' W., 5.92 chs. dist.

A malpais stone 21 x 8 x 6 ins., set 15 ins. in the ground for closing corner of secs. 30 and 31, marked C C on W, B F No. 3 on E., 30 on N., 30 on S face, from which,  
 A mesquite 6 ins. in diam., brs. S. 33-1/2° W., 68 lks. dist. marked T 21 S R 13 E S 30 15-1/8 M B T.  
 A mesquite 7 ins. in diam., brs. S. 69° E., 9 lks. dist., marked T 21 S R 13 E S 30 15-1/8 M B T.

54.00  
56.10  
71.00  
80.00

Leave Santa Cruz Bottom, and ascend  
 Dry wash, 15 lks. wide, course SE. ascend.  
 Top brs. E. and W.; thence over level land; leave dense undergrowth.  
 80.00 Set a sandstone 28 x 10 x 6 ins., 21 ins. in the ground, for 16 mile cor., marked B F No. 3 on E. face, P L on W. face, and 16 M on N. face; raise a mound of stones 3 ft. base, 8-1/8 ft. high, E. of cor.  
 Land, level and rolling.  
 Soil, sandy loam, gravelly and stony; 2nd, 3rd and 4th rate.  
 Timber, mesquite; undergrowth, mesquite, tesota, bachata.  
 Heavy timber and dense undergrowth, 70 chs.

S. 0° 3' 11" E. on 17th mile.  
 Over level land.  
 14.00 Descend slope, brs. E. and W.  
 17.80 Dry wash, 30 lks. wide, course E.; enter draw and heavy mesquite timber.

*For this mile see original notes page 14.*

*For this mile see original notes page 15.*

Chains.		BOOK 2508
28.10	Leave draw, and heavy timber; ascend.	
30.20	Top of bank; ascend gradually.	
40.00	Set a malpais stone, 28 x 10 x 8 ins., 21 ins. in the ground, for 16-1/2 mile cor., marked B F No. 3 on E. face, P L on W face, and 16-1/2 M on E. face, from which, Waldeck Pk., Santa Rita Range, brs. N. 29° 15' E. Catalina Pk., Santa Rita Range, brs. N. 11° 30' W. San Cayetano Pk. brs. S. 60° 40' E.	
42.00	Raise a mound of stone 3 ft. base, 2-1/2 ft. high, E. of cor. E. slope of ridge, brs. N. and S.; descend.	
46:34	Intersect line bet. secs. 6 and 31 on the South Sdy. of T. 21 E., R. 13 E. at a point from which the 1/4 sec. cor. as witnessed and described by the Surveyor-General at brs. S. 89° 50' W., 3.55 chs. dist.	
	A malpais stone, 18 x 10 x 7 ins., set 12 ins. in the ground for closing corner for secs. 31 and 6, marked G C on the W., B F No. 3 on the E, 31 on N, 6 on the S face, and raised a mound of stone 3 ft. base, 2-1/2 ft. high, W. of corner. Pits impracticable.	
48.80	Dry wash, 20 lks. wide, course E.; ascend.	
50.60	Top of ridge, brs. E. and W.	
55.60	Descend, brs. E. and W.	
58.00	Enter draw, course E.	
65.40	Dry wash, 60 lks. wide, course NE.	
70.00	Leave draw, ascend.	
78.00	Spur, brs. NE. and SW.; descend.	
80.00	Set a sandstone, 28 x 6 x 6 ins., 21 ins. in the ground, for 17 mile cor., marked B F No. 3 on E. face, P L on W. face and 17 M on E. face, from which, Catalina Pk., brs. N. 11° 45' E. Pine Pk., Santa Rita Range, brs. E. 40° 30' E.	
	Raise a mound of stones 3 ft. base, 2-1/2 ft. high, E. of cor.	
	Land, rolling and level.	
	Soil, gravelly and stony; 3rd and 4th rate.	
	Timber, mesquite; undergrowth, mesquite, tesota and cacti.	
	Heavy timber and dense undergrowth, 10.30 chs.	
	-----	
	S. 0° 3' 11" E. on 18th mile.	
	Over mountainous land; descending through mesquite undergrowth.	
11.30	Descend abruptly 60 ft.	
12.30	Dry wash, 20 lks. wide, course E.; thence enter draw.	
14.70	Leave draw; ascend through dense mesquite undergrowth.	
19.30	Trail, brs. NE. and SW.	
31.32	Intersect the SW. boundary of the Tumacoori Private Land Grant (Fundo Legal) at a point from which Post V of said Grant brs. S. 25° 42' E., 594.30 chs. dist.	
	A granite stone 24 x 8 x 8 ins., 18 ins. in the ground for closing corner of Baca Float No. 3, marked G C on the N, B F No. 3 on the E., and on the S face, and raised mound of stone 3 ft. base, 2 ft. high, S. of cor. Pits impracticable.	
34.60	Ridge, brs. NE. and SW.; leave dense mesquite undergrowth, and descend.	
39.80	Small gulch, course E.; ascend.	
40.00	Set a sandstone 24 x 8 x 8 ins., 18 ins. in the ground, for 17-1/2 mile corner, marked B F No. 3 on E. face, P L on W face, and 17-1/2 M on E. face, from which, A mesquite, 5 in diam., brs. N. 65° 10' W., 210 lks. dist., marked B F No. 3, 17-1/2 M T 22 S R 13 E S 6 B T; and raised a mound of stone 3 ft. base, 2 ft. high, E. of cor. No other trees available.	
44.00	Ridge, brs. E. and W.; descend.	
45.95	Intersect line bet. secs. 6 and 7, Tn 22 S, R. 13 E, at a point from which the 1/4 sec. cor. as witnessed and described by the Surveyor-General, brs. S. 89° 55' W.,	

*For this mile see original maps*

69

chains.

5.19 chs. dist.

A malpais stone, 18 x 6 x 12 ins., set 12 ins. in the ground for closing corner to secs. 6 and 7, marked C C on the W face, B F No. 3 on the E., 6 on the N, 7 on the S. face, and raised a mound of stone 3 ft. base, 2 ft. high W. of cor. Pits impracticable.

- 47.60 Descend abruptly, 80 ft.
- 49.00 Deep gulch, 30 lks. wide, course E.; steep ascent.
- 55.60 Ridge, brs. E. and W.; descend.
- 60.40 Descend abruptly, 130 ft.
- 63.30 Deep gulch, 30 lks. wide, course E.; begin ascent.
- 68.70 Spur, brs. E. and W.; begin gradual descent.
- 74.80 Descend steeper.
- 78.60 Gulch, 30 lks. wide, course E.; Ascend.
- 80.00 Set a malpais stone, 21 x 12 x 6 ins., 15 ins. in the ground, for 18 mile corner, marked B F No. 3 on E. face, P L on W face, and 18 M on N. face; raise a mound of stones 3 ft. base, 2-1/2 ft. high, E of cor. Land, mountainous. Soil, gravelly and stony; 3rd and 4th rate. Timber, scattering mesquite and palo verde; undergrowth, mesquite, tesotilla. Mountainous, or heavily timbered, or land covered with dense undergrowth, 80 chs.

S. 0° 3' 11" E. on 19th mile.

Over mountainous land, ascending through dense mesquite and tesota.

- 8.00 Spur, brs. E. and W.; descend.
- 10.40 Gulch, 80 lks. wide, course.; ascend.
- 12.18 Spur, brs. E. and W.; descend.
- 13.00 Trail, brs. E. and W.
- 22.30 Dry wash, 30 lks. wide, course SE.; thence NE.; enter draw, brs. SE. and NE.
- 25.20 Leave draw, ascend.
- 38.75 Foot bluff, 80 ft. high.
- 39.00 Top of bluff; ascend.
- 40.00 Set a malpais stone 20 x 10 x 6 ins., 15 ins. in the ground for 18-1/2 mile corner, marked B F No. 3 on E. face, P L on W face, and 18-1/2 M on N. face; raise a mound of stones 3 ft. base, 2-1/2 ft. high E. of corner.
- 42.00 Top of ridge, brs. NE. and SW.
- 46.93 Intersect line bet. secs. 7 and 18, T. 22 S, R 13 E. at a point from which the 1/4 sec. cor. as witnessed and described by the Surveyor-General, brs. S. 89° 51' W., 5.91 chs. dist. A malpais stone 18 x 8 x 5 ins., set 12 ins. in the ground for closing corner to secs. 7 and 18, marked B F No. 3 on the W, B F No. 3 on the E, 7 on the N, and 18 on the S. face, and raise a mound of stone 3 ft. base, 1-1/2 ft. high, W. of corner. Pits impracticable. From this corner a white cabin on the W. slope of the Cayetano Mts. brs. N. 87° 20' E. A tunnel on the W. slope of said Mountain brs. N. 89° 25' E.
- 48.80 Descend, brs. NE. and SW. Cabin on W. slope
- 50.55 Trail, brs. NE. and SW.
- 58.35 Dry wash, 30 lks. wide, course NE.
- 59.00 Dry wash, 15 lks. wide, course NE.; leave undergrowth; ascend.
- 64.90 Dry wash, 15 lks. wide, course NE.
- 75.00 Spur, brs. NE. and SW.; descend.
- 80.00 Set a malpais stone 21 x 14 x 12 ins., 16 ins. in the ground, for 19 mile corner, marked B F No. 3 on E. face, P L on W face, and 19 M on N. face; raise a mound of stones 3 ft. base, 2-1/2 ft. high, E. of cor. Pits impracticable.

For this mile see original notes page 40.

*NE*

Chains.

Land, mountainous.  
Soil, gravelly and stony; 3rd and 4th rate.  
Timber, a few mesquite; undergrowth, mesquite and tesota.  
Mountainous land, 80.00 chains.

BOOK 2508

Nov. 23: At this cor. I set off 30° 19' S. on the decl. arc; and at 2 1/2 m. 40m. diam. l. m. I observe the sun on the meridian; the result by calc. is 31° 30' N., or within 1' of the proper lat.

S. 0° 3' 11" E. on 20th mile.

2.80 Over mountainous land; descend.  
6.50 Small gulch, course SE.; ascend.  
10.30 Spur, brs. NE. and SW.; descend.  
17.00 Gulch, 20 lks. wide, course E.; ascend.  
24.30 Spur, brs. E. and W.; descend.  
28.90 Gulch, 15 lks. wide, course NE.; ascend.  
Trail, brs. E. and NE.; top of ridge, brs. E. and W. - descend.

32.80 Descend.

40.00 Set a malpais stone, 20 x 10 x 8 ins., 18 ins. in the ground, for 19-1/2 mile corner; marked B P No. 3 on E. face; P L on W face, and 19-1/2 M on E. face, from which  
An oak, 14 ins. diam., brs. S. 30° 15' E., 244 lks. dist., marked B P No. 3 19-1/2 M B T 45' W., 215  
A mesquite, 5 ins. diam., brs. S. 38° 45' W., 215 lks. dist., marked T 22 S R 13 E S 18 19-1/2 M B T.

Raise a mound of stones 2 ft. base, 2-1/2 ft. high, E. of corner. Destroy all traces of old witness cor.

41.00 Gulch, 25 lks. wide, brs. NE.; ascend.  
46.04 Intersect line bet. secs. 18 and 19, Tp. 22 S., R. 13 E.

at a point from which the 1/4 sec. cor., as witnessed and described by the Surveyor-General, brs. S. 89° 46' W., 5.60 chs. dist.

A malpais 18 x 10 x 6 ins., set 12 ins. in the ground for the closing corner for secs. 18 and 19, marked C C on the W, B P No. 3 on the E., 18 on the N., 19 on the S. face, and raise a mound of stone 2 ft. base, 1-1/2 ft. high W. of cor.

46.20 Spur, brs. E. and W.; descend.  
50.70 Gulch, 25 lks. wide, course NE.; ascend.  
56.00 Top of ridge, brs. E. and W.  
57.70 Trail, brs. E. and W.  
60.70 Descend ridge, brs. E. and W.  
62.50 Small gulch, course SE.; ascend.  
64.00 Top of ridge, brs. SE. and NW.; descend.

Set a malpais stone 24 x 10 x 8 ins., 18 ins. in the ground, for 20 mile cor., marked B P No. 3 on E face, P L on W face, and 20 M on S face, from which,  
A mesquite, 5 ins. diam., brs. S. 8° 30' E., 254 lks. dist., marked B P No. 3 20 M B T.

Raise a mound of stones 2 ft. base, 2-1/2 ft. high, E. of corner.

Land, mountainous and level.  
Soil, gravelly and stony; 3rd and 4th rate.  
Timber, oak and mesquite; undergrowth, mesquite.  
Mountainous land, 70.50 chs.

June 4th, 1907.

S. 0° 3' 11" E. on 21st mile.

9.70 Over mountainous land; descend.  
11.30 Enter gulch, course SE.  
14.70 Leave gulch, begin steep ascent.  
20.00 Spur, brs. E. and W.; descend.  
Enter scattering mesquite timber and dense undergrowth, brs. E. and W.  
21.00 Enter Peck's Canon, course E.  
25.55 Road, brs. E. and W.

*For this mile see original notes page 17.*

*For this mile see original notes page 8.*

B. CORRECTIONS. BACA FLOA T.NO.3, RETRACEMENT OF TUBAC TOWNSITE.

71

chains,  
 29.30  
 33.70  
 38.00  
 40.00  
 45.69  
 48.00  
 52.00  
 61.45  
 78.80  
 80.00  
 .30  
 8.80  
 20.60  
 31.60  
 40.00  
 45.30  
 46.28  
 52.00  
 56.40  
 59.95  
 70.70  
 80.00

Dry wash, 40 lks. wide, course E.  
 Scattered timber and dense undergrowth, and ascend.  
 Top of ridge, brs. E. and W.; thence over level land.  
 Set a malpais stone 21 x 10 x 8 ins., 16 ins. in the ground, for 20-1/2 mile corner, marked B F No.3 on E. face, P L on W face, and 20-1/2 M on N. face, from which,  
 A mesquite, 6 ins. diam., brs. N. 80°30' E., 202 lks. dist., marked B F No.3 20-1/2 M B T.  
 A mesquite, 6 ins. diam., brs. N. 89°45' W., 257 lks. dist., marked T 22 S R 13 E S 19 20-1/2 M B T.  
 Intersect line bet. secs. 19 and 30, T. 22 S., R. 13 E. at a point from which the 1/4 sec. cor., as witnessed and described by the Surveyor-General brs. S. 89°42' W., 5.12 chs. dist.  
 A sandstone, 18 x 10 x 6 ins., set 12 ins. in the ground for the closing corner to secs. 19 and 30, marked C C on the W, B F No.3 on the E., 19 on the N., and 30 on S. face; dig pits 18 x 24 x 12 ins. cross-wise on each line N. and S., 3 ft. dist., and W. of stone 7 ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high W. of corner.  
 Ascend slope brs. E. and W.  
 Leave undergrowth, brs. E. and W.  
 Sharp spur, brs. E. and W.; ascend.  
 Ridge, brs. NE. and SW.; descend.  
 Set a malpais stone 21 x 14 x 6 ins., 16 ins. in the ground, for 21 mile cor., marked B F No.3 on E. face, P.L. on W. face, and 21 M on N. face, from which,  
 A mesquite 5 ins. diam., brs. S. 66° E., 22 lks. dist., marked B F No.3 21 M B T. No other trees within limits; raised a mound of stones 3 ft. base, 2 ft. high, E. of cor.  
 Round Butte, Atascosa Range bears N. 18°50' W.  
 Land, mountainous and level,  
 Soil, sandy and gravelly loam; stony; 2nd, 3rd and 4th rate.  
 Timber, scattering mesquite, and janos in canon; undergrowth, mesquite, tesota and hecota.  
 Mountainous, or land covered with dense undergrowth,  
 69.00 chs. -----  
 S. 0°3'11" E. on 22nd mile.  
 Over mountainous land; descend.  
 Trail, brs. NE. and SW.  
 Gulch, 15 lks. wide, course NE.; ascend.  
 Spur, brs. NE. and SW.; descend.  
 Gulch, 80 lks. wide, course NE.; ascend.  
 Set a malpais stone 24 x 14 x 12 ins., 18 ins. in the ground, for 21-1/2 mile cor., marked B F No.3 on E. face, P L on W face and 21-1/2 M on N. face; raise a mound of stones 3 ft. base, 2-1/2 ft. high, E. of cor.  
 Ridge, brs. NE and SW.; descend.  
 Intersect line bet. secs. 30 and 31, Tp. 22 S., R. 13 E. at a point from which the 1/4 sec. cor., as witnessed and described by the Surveyor-General, brs. N. 89°47' W., 5.89 chs.  
 A malpais stone 18 x 8 x 8 ins., set 12 ins. in the ground for closing corner for secs. 30 and 31, marked C C on the W., B F No.3 on the E., 30 on the N., and 31 on the S. faces, and raised a mound of stone 2 ft. base, 2-1/2 ft. high, W. of cor. Pits impracticable.  
 Gulch, 30 lks. wide, course NE.; ascend.  
 Spur, brs. NE. and SW.; descend.  
 Trail, brs. NE. and SW.  
 Gulch, 80 lks. wide, course NE.; ascend.  
 Set a malpais stone 24 x 8 x 8 ins., 18 ins. in the

*For this mile see original notes page 19.*

*For this mile see original notes page 19.*

CORRECTIONS. BAGA FLOAT NO. 3. RETRACEMENT OF TUBAC TOWNSITE.

Chains.

ground, for 22 mile corner, marked 22 M on N, B F No. 3 on E. P L on W, and raise a mound of stones 3 ft. base, 2-1/2 ft. high E. of cor.  
 Thumb Butte, Atascosa Range, brs. S. 89° 30' W.  
 Helmet Peak brs. N. 30° 5' W.

Land, mountainous.  
 Soil, gravelly and stony; 3rd and 4th rate.  
 Timber, oak and in gulches; undergrowth, scattering mesquite.  
 Mountainous land, 80.00 chs.

S. 0° 3' 11" E. on 23rd mile.  
 Over mountainous land, descending through scattering undergrowth.

3.70  
 14.75  
 23.00  
 24.00  
 28.00  
 34.00  
 40.00

Road, brs. NE. and SW.  
 Gulch, 30 lks. wide, course NE.; ascend.  
 Ridge, brs. E. and W.; descend.  
 Trail, brs. E. and W.

Head of gulch course SE.; ascend.  
 Spur, SE. and NW.; descend.

Set a granite stone 24 x 14 x 8 ins., 18 ins. in the ground, for 22-1/2 mile corner, marked B F No. 3 on E. face, P L on W face, and 22-1/2 M on N. face, from which,

A mesquite 5 ins. diam., brs. S. 8° 15' E., 280 lks. dist., marked B F No. 3 22-1/2 M B T.

A mesquite 5 ins. diam., brs. S 12° W., 165 lks. dist., marked T 22 S R 13 E S 31 22-1/2 M B T.

Raise a mound of stones 3 ft. base, 2-1/2 ft. high, E of corner.

41.80  
 46.48

Gulch, 40 lks. wide, course SE.; ascend.  
 Intersect the line bet. secs. 6 and 7, on S. bdy. of T. 22 S. R 13 E., at point from which sec. cor. as witnessed and described by the Surveyor-General brs. due W., 5.80 chs. dist.

A malpais stone 18 x 8 x 6 ins., set 18 ins. in the ground for closing corner of secs. 31 and 6, marked C C on W, B F No. 3 on the E., 31 on the N, and 6 on S faces, and raised a mound of stone 3 ft. base, 2-1/2 ft. high W. of corner. Pits impracticable.

48.20  
 53.45  
 60.30  
 66.20  
 78.30  
 80.00

Spur, brs. E. and W.; descend.  
 Trail, brs. NW. and SE.

Gulch, 30 lks. wide, course SE.; ascend.  
 Spur, brs. E. and W.; descend.

Gulch, 30 lks. wide, course NE.; ascend.

Set a malpais stone 24 x 14 x 8 ins., 18 ins. in the ground, for the 23 mile cor., marked B F No. 3 on E. face; P L on W face, and 23 M on N face, from which,

An oak, 12 ins. diam., brs. S. 52° 15' E., 133 lks. dist., marked B F No. 3 23 M B T.

An oak, 6 ins diam., brs. S. 1° 15' E., 126 lks. dist., marked B F No. 3 23 M B T.

An oak 5 ins diam., brs. S. 3° W., 110 lks. dist., marked T 23 S R 13 E S 6 23 M B T.

An oak, 14 ins. diam., brs. S. 85° W., 54 lks. dist., marked T 23 S R 13 E S 6 23 M B T.

Raise a mound of stone 3 ft. base, 2-1/2 ft. high, E. of cor.

Land, mountainous.  
 Soil, gravelly and stony; 3rd and 4th rate.  
 Timber, oak in gulches; undergrowth, scattering mesquite  
 Mountainous land, 80.00 chs.

S. 0° 3' 11" E. on 24th mile.  
 Over mountainous land; ascend through scattering oak and mesquite undergrowth.

For this mile see original notes page 19.

For this mile see original notes page 20.

(23)

Chains.

9.00 Top of W. slope of ridge, brs. N. and S.; descend.  
 21.00 Foot of ridge, brs. E. and W.; ascend.  
 22.95 Road, brs. E. and W.  
 34.00 W. slope of hill; descend.  
 36.30 Foot of slope, brs. E. and W.; ascend.  
 36.50 Trail, brs. NW. and SE.  
 40.00 Set a malpais stone 24 x 10 x 8 ins., 18 ins. in the ground, for 23-1/2 mile cor., marked B F No. 3 on E. face, P L on W face; and 23-1/2 M on N face, from which, A mesquite, 10 ins. diam., brs. S. 36° 30' E., 376 lks. dist. marked B F No. 3 23-1/2 M B T.  
 Raise a mound of stone 3 ft. base, 2-1/2 ft. high, E. of corner.  
 46.07 Intersect line bet. secs. 6 and 7 of Tp. 23 S., R. 13 E., at a point from which the 1/4 sec. cor., as witnessed and described by the surveyor-general, brs. S. 89° 51' W., 5.70 chs. dist.  
 A granite stone 18 x 10 x 6 ins., set 12 ins. in the ground for C C for secs. 6 and 7, marked C C on W, B F No. 3 on E., 6 on N, and 7 on S faces, and raised a mound of stone 3 ft. base, 2 ft. high, W. of cor. Pits impracticable.  
 52.50 Bluff, 60 ft. high.  
 52.80 Top, brs. NW. and SE.; ascend.  
 60.00 Top of ridge, brs. E. and W.; descend.  
 70.00 Descent steeper, over boulders.  
 80.00 Set a malpais stone, 28 x 10 x 8 ins., 21 ins. in the ground, for 24 mile corner, marked B F No. 3 on E. face, P L on W face, and 24 M on N face, from which  
 An oak 20 ins. diam., bears S 3° 15' E., 77 lks. dist., marked B F No. 3 24 M B T.  
 An oak, 14 ins. diam., brs. S. 24° 30' E., 147 lks. dist., marked B F No. 3 24 M B T.  
 An oak, 18 ins. diam., brs. S. 15° 15' W., 370 lks. dist., marked T 23 S, R 13 E S 7 24 M B T.  
 An oak, 18 ins. diam., brs. S. 48° 30' W., 411 lks. dist., marked T 23 S R 13 E S 7 24 M B T.  
 Raise a mound of stone 3 ft. base, 2-1/2 ft. high, E. of cor.  
 Land, mountainous.  
 Soil, gravelly and stony; 3rd and 4th rate.  
 Timber, scattering mesquite and oak; undergrowth, mesquite.  
 Mountainous land, 80.00 chs.

June 4th, 1907.

-----  
 Thence I run,  
 S. 0° 3' 11" E. on the 25th mile.  
 Over mountainous land, descending through scattering timber.

2.70 Gulch, 40 lks. wide, course E.; ascend.  
 6.00 Ridge, brs. E. and W.; descend.  
 18.00 Gulch, 30 lks. wide, course SE.; ascend.  
 22.00 Spur, extending SE.; descend.  
 31.50 Draw, 260 lks. wide, course SE.; ascend.  
 38.60 Top, brs. E. and W.; descend.  
 39.40 Shack brs. E. about 5.00 chs. dist.

40.00 The 24-1/2 mile corner as described in my original notes.

-----  
T. 21. S. R. 13. E.

The C C between secs. 18 and 19, T. 21 S., R. 13 E. brs. S. 0° 3' 11" E. of the 13-1/2 mile cor., 7.58 chs.  
 The distance between 1/4 sec. cor. of secs. 18 and 19, and 1/4 sec. cor. of secs. 19 and 30 is 79.55 chs. instead of 78.55 chs.  
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*For this mile see original notes page 21.*

*see orig. notes page 12. see Book B page 2.*

Chains.

BOOK 2503

RETRACEMENT OF BOUNDARIES OF TUBAC TOWNSITE.

June 5th. At 7:30 a.m., l.m.t., I set off  $31^{\circ}39'N$  on the lat. arc; and  $22^{\circ}29'N$  on the decl. arc, and determine a true meridian with the Solar, at the NE. corner of Tubac Townsite, which is a pine post 3 x 3 ins., 1-1/2 ft. above the ground, firmly set, marked N E COR T T, from which,

A mesquite, 4 ins. diam., brs. N.  $76^{\circ}W$ . 10 lks. dist. marked N E COR T T B T.

A mesquite, 4 ins. diam., brs. S.  $4^{\circ}30'W$ . 38.5 lks. dist., marked N E COR T T B T.

Thence I run south on a true line.

9.20

C C of Baca Float No. 3, as described in my original field notes.

20.00

Intersect sec. line, bet. secs. 8 and 17, T. 21 S., R. 13 E.

40.00

S.E. Cor., which is a mesquite post, 3 x 3 ins., 1-1/2 ft. above ground, firmly set, but without marks. I scribe same S.E. Cor. T T on N W face and B F No. 3 on S.E. face, from which,

A willow tree 3-1/2 ft. diam., brs. S.  $49^{\circ}25'E$ . 132 lks. dist., marked S E COR T T B T.

Thence West on a true line,

20.00

Intersect line bet. secs. 17 and 18, T. 21 S., R. 13 E.

40.68

S.W. Cor., which is a decayed stake with marks obliterated. I re-establish same and set a granite stone 15 x 10 x 8 ins., 10 ins. in the ground; marked S W COR T T on N.E. face; and raise a mound of stone 3 ft. base, 2-1/2 ft. high, N. E. of cor.

Thence N. on a true line.

20.00

Intersect sec. line bet. secs. 7 and 18, RT. 21 S., R. 13 E.

30.95

C C of Baca Float No. 3, which is a stone described in my original field notes.

40.00

N.W. cor., which is a granite stone 5 x 7 ins., 6 ins. above the ground, marked T T on E face. I chisel stone N.W. Cor., and raise a mound of stone 3 ft. base, 2-1/2 ft. high, SE. of cor.

Thence East on a true line.

20.00

Intersect sec. line bet. secs. 7 and 8, T. 21 S., R. 13 E. To the place of beginning.

40.69

*See original notes page 10*  
*See page 143 this Book (red)*

Philip Couzger  
U. S. Deputy Surveyor.



LIST OF NAMES

A list of the names of the individuals employed by Philip Contzen

United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of re-establishment of correct position of certain corners on N. bdy. of Pataa Float No. 3 and retracement of bdy of Subac Townsite, showing the respective capacities in which they acted:

- C. B. Neiswender, Chainman.
- Will Allen, Chainman.
- J. W. Boley, Flagman.
- J. W. Boley, Moundman.
- J. W. Boley, Axman.
- J. W. Boley, Axman.
- J. W. Boley, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Philip Contzen

United States Deputy Surveyor, in surveying all those parts or portions of the re-establishment of correct position of certain corners on the W. bdy. of Pataa Float No. 3 and retracement of the bdy of Subac Townsite.

of the \_\_\_\_\_ meridian, \_\_\_\_\_ of \_\_\_\_\_, which are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor

- General for Arizona
- C. B. Neiswender, Chainman.
  - Will Allen, Chainman.
  - J. W. Boley, Moundman.
  - J. W. Boley, Moundman.
  - J. W. Boley, Axman.
  - J. W. Boley, Axman.
  - J. W. Boley, Flagman.

Subscribed and sworn to before me this 20<sup>th</sup> day of June, 1907

H. G. Power  
Notary Public, First Deputy, Arizona Territory.  
My Commission Expires April 27th, 1908



FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Philip Contzen United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from Frank S. Ingalls United States Surveyor General for Arizona, bearing date of the 12th day of June, 1905, 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 re-establishment of correct position of certain cors. on N. bdy. of Boca Float No. 3. and retracement of bdys. of Tubac Townsite.

of the \_\_\_\_\_ meridian, in the \_\_\_\_\_ of \_\_\_\_\_, which 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 survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written 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 original field notes of such survey.

Philip Contzen United States Deputy Surveyor.

Subscribed by said Philip Contzen, and sworn to before me this 27th day of June, 1907

U. S. Commissioner, First Judicial District, Territory of Arizona, residing at Tucson.



APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Phoenix, Ariz Sept 7th, 1907.

The foregoing field notes of the survey of a portion of the West bdy. of the Boca Float N: 3 and the retracement of the exterior boundaries of the Tubac Townsite situate in Santa Cruz County, Territory of Arizona

executed by Philip Contzen, U.S. deputy surveyor under his contract No. 136, dated June 12th 1905, 1905, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Frank S. Ingalls United States Surveyor General.

I certify that the foregoing transcript of the field notes of the above-described surveys in \_\_\_\_\_, has been correctly copied from the original notes on file in this office.

United States Surveyor General.