

RETRACEMENTS  
in T. 19 N. - R. 2 E

Book D' 3.

W. O. Secor  
Contract #102

Of a portion of <sup>E</sup> N. Beckis, also a  
part of "subs"

BOOK 1422

1422

4-671

FIELD NOTES  
GENERAL LAND OFFICE.

No. 1422

Recd. Sept. 21 '03

Copied by E. V. Nov. 9/03.

Compared 12/3/03 Thompson & Sealey

Des. sheet copied. C. M.

" " Comp. C. M. - h. W.

Accts. Checked

L. A. G. & Co. Inc.  
2-15-7904

notes recompiled. C. M. 12/5/04

19-2

BOOK 1422

No. 1422

— Field Notes —  
of the survey of  
Retracements  
in  
Township 19 N. R. 2 E.  
of the  
Gila<sup>and</sup> Salt River Base<sup>and</sup> Meridian  
in the  
Territory of Arizona  
as surveyed by  
W. Oscar Sacer.  
U.S. Deputy Surveyor.  
Under his contract No. 102.  
Dated June 30, 1902.

Survey commenced June 1, 1903  
Survey completed June 3, 1903

Township 19 N Range 2 E

BOOK 1422 County, \_\_\_\_\_

		NORTH						
		<u>20</u>	<u>19</u>	<u>18</u>				
	6	5	4	<u>7</u>	3	2	1	
	7	8	9	<u>10</u>	10	11	12	
	18	17	16	<u>15</u>	15	<u>9</u>	14	<u>8</u>
WEST	19	20	21	<u>12</u>	<u>11</u>	23	24	EAST
	30	29	28	27	26	25		
	31	32	33	34	35	36		
		SOUTH						

BOOK 1422

3

Survey began June 1. 1903, and executed with a Buff & Berger engineer's transit with Saegmüller Solar attachment.

I carefully examine the adjustments of my transit and find the same satisfactory; then to test the solar apparatus, by comparing its indications, resulting from solar observations made during a. m. and p. m. hours, with a true meridian determined by observations on Polaris, I proceed as follows:

Near the cor. of secs. 19, 24, 25 & 30 on the E. bdy. Tp. 19 N. R. 2 E. I set off  $21^{\circ} 58' N.$  on the decl. arc, and at noon observe the sun on the meridian; the resulting lat. is  $35^{\circ} 01' N.$

At 3 p. m. l. m. t. I set off  $22^{\circ} 00' N.$

on the decl. arc,  $35^{\circ}01'$  N. on the lat. arc; and determine a true meridian with the solar & mark a point thereof on a stone firmly set in the ground 7 chs. N. of my station.

Allowing my instrument to remain at this station at  $14^{\text{h}}49^{\text{m}}$  I observe Polaris at eastern elongation, in accordance with instructions in the Manual, and mark a point in the line thus determined on a stake driven in the ground, 5 chs. N. of my station.

June 1 - 1903.

---

June 2: At 7 a. m. I lay off the azimuth of Polaris,  $1^{\circ}29'$ , to the west, and mark the true meridian thus determined, by cutting a groove in the stone set June 1,

on which the true meridian falls 7 ins. west of the mark determined by the solar.

At 8<sup>h</sup> a. m. l. m. t. I set off  $22^{\circ} 05' N.$  on the decl. arc,  $35^{\circ} 01' N.$  on the lat. arc, and determine a true meridian with the solar, and mark a point thus determined on the stone already set 7 chs. N. of my station, this mark falls 3 inches E. of the true meridian established by the Polaris observation.

I therefore conclude that my solar will give a satisfactory line.

The magnetic bearing of the true meridian at 8<sup>h</sup> a. m. is  $N. 13^{\circ} 45' W.$ ; the angle thus determined, reduced by the table on page 100, gives the mean mag. decl.  $13^{\circ} 39' E.$



From the cor. of secs. 19, 24,  
25 & 30 on the E. b'dy. I re-  
trace N. bet. secs. 19 & 24.

39.36 The  $\frac{1}{4}$  sec. cor. bears E. 19 lks.

Thence N. from the  $\frac{1}{4}$  sec. cor.

78.10 The cor. of secs. 13, 18, 19 & 24  
bears E. 19 lks, which makes

the true length and bearing  
of this line 78.10 chs. N.  $0^{\circ} 16'$  E.

N. bet. secs. 13 & 18

39.81 The  $\frac{1}{4}$  sec. cor. on line

~~79.64~~  
~~76.64~~

The cor. secs. 7, 12, 13 & 18, on line.

W. bet. secs. 12 & 13

39.60

The  $\frac{1}{4}$  sec. cor. which is a cross on a boulder, with md. of stone and 2 bearing trees, bears S. 25 lks., which makes the true bearing of this line S.  $89^{\circ}39'W$ .  
Thence from the  $\frac{1}{4}$  sec. cor. S run W.

39.65

The cor. of secs. 11, 12, 13 & 14 which is a malpais in a md. of stone, marked & witnessed as described by the Surveyor General, bears N. 106 lks. which makes the true bearing of this line N. ~~88~~<sup>88° 28'</sup> ~~30~~<sup>30'</sup> W.

W. bet secs. 11 & 14


39.98 The  $\frac{1}{4}$  sec. cor. bears S. 47 lks.,  
which makes the bearing  
of this line S.  $89^{\circ}20'W$ .  
Thence from the  $\frac{1}{4}$  sec. cor.  
A run W.

40.50 The cor. of secs. 10, 11, 14 & 15  
bears N. 50 lks., which makes  
the true bearing of this  
line N.  $89^{\circ}18'W$ .

S. bet. secs. 14 & 15

39.56 The  $\frac{1}{4}$  sec. cor. on line,  
thence South.

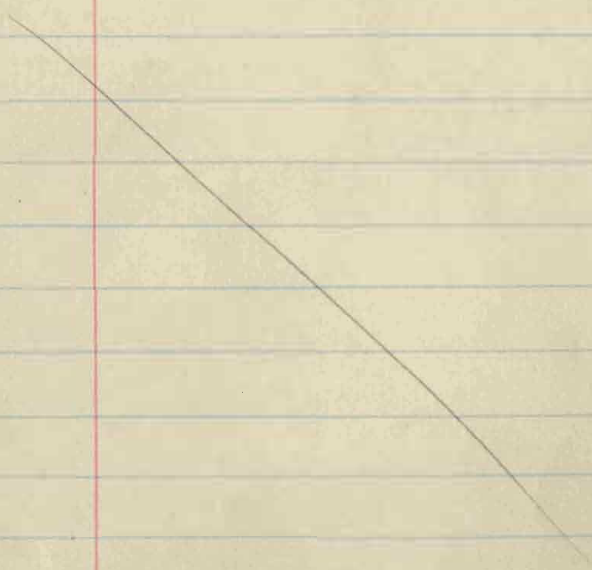
39.59 The cor. of secs. 14, 15, 22 & 23,  
which is a malpais with  
md. of stone, marked &  
witnessed as described by  
the Surveyor General, bears  
E. 38 lks., which makes the  
true bearing of this line  
S  $0^{\circ}33'E$ .



Wt. bet. secs 15 & 22

39.30 The  $\frac{1}{4}$  sec. cor. bears S. 12 lks.  
which makes the true bear-  
ing of this line S.  $89^{\circ}50' W.$   
Thence from the  $\frac{1}{4}$  sec. cor.  
I run W.

39.75 The cor. of secs. 15, 16, 21 & 22  
bears N. 16 lks. which makes  
the true bearing of this  
line N.  $89^{\circ}46' W.$



W. bet. secs. 16 & 21

40.19 The  $\frac{1}{4}$  sec. cor. bears S. 147° E. 140',  
which makes the true  
bearing of this line S. 87° 54' W.  
Thence from the  $\frac{1}{4}$  sec. cor.  
I run W.

41.57 The cor. of secs. 16, 17, 20 & 21  
on line. As this cor. consists  
of an undersized sandstone  
in a small md. of stone,  
I destroy all trace of it,  
and reestablish <sup>at same point</sup> as follows:  
Set a sandstone 20x12x6 in  
in a md. of stone for cor.  
of secs. 16 & 21 only, marked  
with 3 notches on S and 4  
notches on E. edges, from  
which  
A piñon 12 in. diam. bear

N.  $36^{\circ}$  E 55 lks dist.

marked T. 19 N. R. 2 E. S. 16 B. T.

No other trees. Build a md. of  
stones  $\frac{1}{2}$  ft. base  $\frac{1}{2}$  ft. high. W. of cor.

June 2 - 1903

Pits unpracticable

June 3. at 7<sup>h</sup> a. m. l. m. t.  
 I set off  $22^{\circ}14'$  N. on the decl.  
 arc.  $35^{\circ}02'$  N. on the lat. arc,  
 and determine a true meridian  
 with the solar at the cor. of  
 secs. 15, 16, 21 & 22.

Thence I run N. bet. secs. 15 & 16

40.17 The  $\frac{1}{4}$  sec. cor. which is an  
 undersized stone lying on  
 the ground properly marked  
 bears W. 17 lks, I destroy  
 all trace of this cor. and  
 reestablish <sup>at same point</sup> as follows:

Set a malpais  $18 \times 12 \times 5$  ins  
 in a md. of stone for  $\frac{1}{4}$  sec.  
 cor. marked  $\frac{1}{4}$  on W. face  
 from which

A juniper 40 ins. diam. bears  
 S.  $8^{\circ}$  E. dist 135 lks *Marked*

*$\frac{1}{4}$  S 15 B. J.*



No. 1422

BOOK 1422

15

No other trees in distance.  
Piled midstone,  $\frac{3}{2}$  ft. base,  $\frac{1}{2}$  ft. high W. of cor.  
Thence I run N. from  $\frac{1}{4}$  cor.

*Intermittent*

80.35

The cor. of secs. 9, 10, 15 & 16 bears  
W. 18 lks., which makes the  
true bearing of this mile  
N.  $0^{\circ} 15' W.$

N. bet. secs. 9 & 10

40.00

The  $\frac{1}{4}$  sec. cor. bears W. 9 lks.

✓

Thence N. from  $\frac{1}{4}$  sec. cor.

78.35

The cor. of secs. 3, 4, 9 & 10 bears  
W. 9 lks. which makes the


true bearing of this line

N.  $0^{\circ}08'$  W.

N. bet. secs 3 & 4

39.10 The  $\frac{1}{4}$  sec. cor. on line

78.17 The cor. of secs. 3, 4, 33 & 34  
bears E. 86<sup>ls.</sup> which makes  
the true bearing of the last  
half mile N. 1° 15' E.



W. bet. secs. 4 & 33

39.85  $\frac{1}{4}$  sec. cor. on line, thence W.

39.95 The cor. of secs 4, 5, 32 & 33  
on line, which makes the  
true bearing of this line W.

W. bet. secs. 5 & 32

40.00

I am unable to find the  $\frac{1}{4}$  sec. cor.

78.21

The cor. of secs. 5, 6, 31 & 32 bears S. 103 lks. which makes the true bearing of this line S. 89° 15' W.

W. bet secs. 6 & 31

~~39.62~~

~~39.30~~

The  $\frac{1}{4}$  sec. cor. bears N. 37° E. S. which makes the true bearing of this line N. 89° 28' W.

Thence W. from  $\frac{1}{4}$  cor.

~~31.28~~

~~31.50~~

The closing cor. of Tps. 19 N.

& 20 N. Rgs. 2 E. on line, which makes the true bearing of this line W.

June 3, 1903

W. Oscar Jacob.  
U.S. Deputy Surveyor.

(Retracement of W. Bdy. is found  
in book of Exterior's P. Bdy.)