

Subdivisions

T. 19 N - R. 3 E

W. O. Secor

Contract #102

~~No. 1~~  
BOOK 304

4-671

BOOK 304

304

FIELD NOTES

GENERAL LAND OFFICE.

No 304

Examined Sept 19. 03. 207.

copied by G. V. Sept. 26/03.

recopied

Recopied C. M. 7/10/02

Dachs made C. M.

Compared by G. M. G. + C. M. F.  
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6/29/04

19-3 Subd.  
No-304 BOOK 304

Field Notes  
of the survey of the  
Subdivisional Lines

of  
Tp. 19 N. R. 3 E.

of the  
Gila and Salt River Base and Meridian  
in the

Territory of Arizona.

As surveyed by  
W. Oscar Secor.

U.S. Deputy Surveyor

Under his contract dated June 30, 1902.

No 102.

Survey commenced May 20, 1903

Survey completed May 30, 1903



BOOK 304

Assistants

- |                |          |
|----------------|----------|
| Joel Anderson  | Chairman |
| A.G. Johnson   | "        |
| J.M. Lockwood  | Chairman |
| C.F. Schwartz  | Moundman |
| Hubert Harpham | Axman    |
| Norman Coote   | "        |
|                | Flagman  |

Township 19 N Range 3 E

BOOK 304 County

		NORTH							
		6	5	4	3	2	1		
						57	55		
		7	8	9	10	11	12		
						52	51		
		18	17	16	15	14	13		
						17	10		
		19	20	21	22	23	24		
		16	15	14	13	12	8		
		30	29	28	27	26	25		
		42	40	33	25	21			
		31	32	33	34	35	36		
		35	30	27	17	7			
		SOUTH							
WEST	EAST								

(For preliminary see Subs. 519 N. R. 66.)

Survey commenced  
May 20, 1903, and executed  
with a Buff and Berger  
Engineer's transit with  
Seagmuller Solar attachment.

The horizontal limb is  
provided with two double  
verniers placed opposite to  
each other, reading to 30 seconds  
of arc; single minutes of arc  
being the least count of the  
verniers of the latitude and  
declinations arcs.

I examine the adjust-  
ments of the transit and find  
them to be correct; then to  
test the solar apparatus, by  
comparing its indications,  
resulting from solar observa-  
tions made during a.m.

and p. m. hours, with a true meridian determined by observations on Polaris, & proceed as follows

At the cor. of secs. 35 and 36 on the S. side Twp. 19 N. R 3 E.; I set off  $34^{\circ}59'$  N. on the lat. arc;  $19^{\circ}53'$  N. on the decl. arc; and at 3 h. p. m. l. m. t. determine with the solar a true meridian and mark a point thereof, on a rock in place about 7 chs. N. of the cor.

May 20<sup>th</sup> 1903

May 21<sup>st</sup> At 3 h. ~~28~~<sup>36</sup> m a. m.

l. m. t., I observe Polaris at eastern elongation, in accordance with the Manual of Instructions, and mark a point in the



line thus determined, on a stone set in the ground about 7 chs. N. of my station.

At 6<sup>h</sup> 30<sup>m.</sup> a.m. l.m.t., I lay off the azimuth of Polaris,  $1^{\circ}29'$  to the west, and mark the true meridian thus determined by cutting a small groove in the stone set May. 20<sup>th</sup>, on which the true meridian falls 0.4 inches west of the mark determined by the solar.

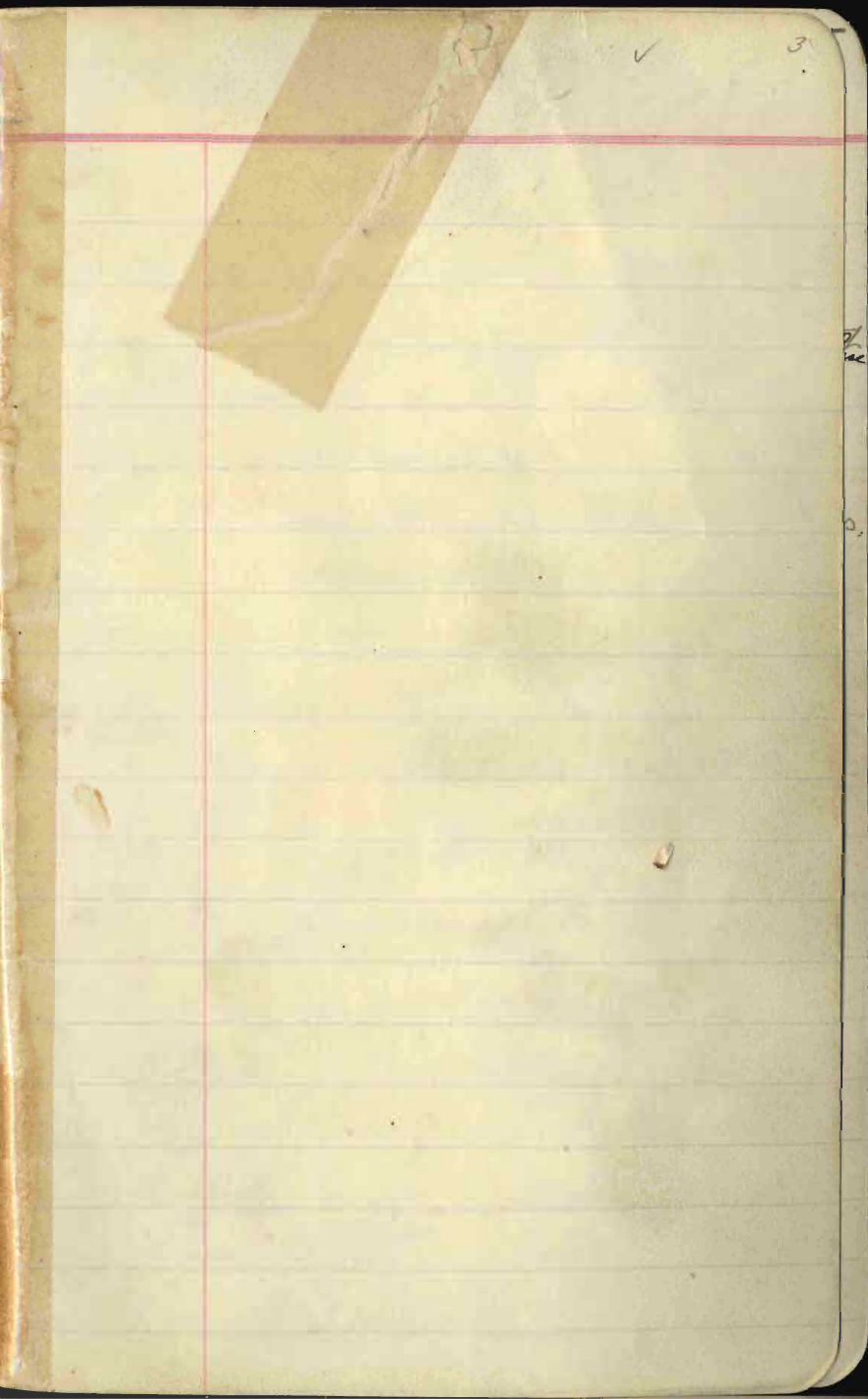
At 7<sup>h</sup> a.m. l.m.t. I set off  $20^{\circ}02' N.$  on the decl. arc;  $34^{\circ}59' N.$  on the lat. arc; and determine a true meridian with the solar

which meridian falls 0.3 inches west of the true meridian established by the Polaris observation.

I therefore conclude that the adjustments of the instrument are satisfactory.

The magnetic bearing of the true meridian at 7<sup>h</sup> a.m. C.M. T. is N. 14° 40' W. the angle thus determined reduced by the table, page 100, gives the mean mag. decl. 14° 36' E.





4. Subs. T. 19 N. R. 3 E.

BOOK 304

May 21: At 7<sup>h</sup> a. m. l. m. t.  
I set off 20° 02' N. on the decl.  
arc, 34° 59' N on the lat. arc, and  
determine a true meridian with  
the solar at the cor. of secs.  
35 & 36 on the S. l'dy.

Thence I run

N. 0° 01' W. bet. secs. 35 & 36

Over mountainous land, ascending  
sandstone

40.00

Set a ~~ss.~~ 20 x 12 x 5 ins. in a

md. of stone for  $\frac{1}{4}$  sec. cor. p.  
and raised a md. of stone  $1\frac{1}{2}$  ft. high.  
2 ft. base, W. of cor.  
marked  $\frac{1}{4}$  on W. face, from which

Pits. imp. racticable.

A juniper 6 ins. diam. bears

N. 30° W. 169 lks. dist.

marked  $\frac{1}{4}$  S. 35 B.T.

No other trees.

52.00

Gulch 50 ft. deep, course S. E.

55.00

Foot of mountain spur 800 ft.  
high, ascend

Subs. T. 19 N. R. 3 E.

BOOK 304

5

80.00

Set a sandstone 30 x 14 x 5 ins  
in a md. of stone for cor. of  
secs. 25 26 35 x 36 marked with  
Raised a md. of stone 1 1/4 ft. high 2 ft. base  
1/2 ft. of cor.  
1 notch on S. & E. edges, pits  
impracticable.

Land mountainous 80.00 chs.  
Soil rocky, 4<sup>th</sup> rate

Because of impassable  
cañons I am unable to  
run E. bet. secs. 25 & 36



- 0° 1' W  
 N. bet secs. 25 & 26  
 Ascending steep mountain spur abruptly.
- 13.75 Top of spur
- 15.00 Descend abruptly
- 20.00 Gulch 600 ft. deep, course S.E. ascend
- 30.00 Top of ascent, descend
- 34.00 Gulch course E. ascend
- 40.00 Set a lime stone 24 x 12 x 7 ins  
 in a md. of stone for  $\frac{1}{4}$  sec.  
 and raised a md. of stone  $\frac{1}{2}$  ft high and  
 2 ft base. N. of cor.  
 cor. marked  $\frac{1}{4}$  on W. face from which  
 Pits impracticable.  
 A piñon 10 ins. diam. bears  
 N. 52° E. 62 lks dist.  
 marked  $\frac{1}{4}$  S. 25 B. T.  
 no other trees in limits.
- 42.00 Descend abruptly to cañon
- 61.00 Bottom of cañon 1000 ft. deep,  
 course E. ascend abruptly.
- 68.80 Top of bluff of bench of mesa,  
 bears N. 70° E. & S 70° W.

Continue to ascend.

82.00 Intersect E. & W. line 6.13 chs  
 $71^{\circ}89'40''$   
 N. of corner of secs. 23, 24, 25 & 26,  
 which is a malpais in a  
 md. of rock, marked and wit-  
 nessed as described by the  
 Surveyor General. I change  
 the marking to refer to secs.  
 23 & 24 only.

Set a limestone  $20 \times 16 \times 10$  ins.  
 in a md. of stone for closing  
 corner to secs. 25 & 26, marked  
 C. C. with two notches on S.  
 Raised a md. of stone  $1\frac{1}{2}$  ft. high, 2 ft. base  
 $\frac{5}{8}$  of cor. & 1 notch on E. edges, pits  
 impracticable.

Land mountainous 82.00 chs.  
 Soil 4<sup>th</sup> rate.

- From cor. to secs. 23 and 24  
E. on a true line bet. secs. 24 & 25
- Over mountainous land,  
through dense brush descending.
- 15.00 Gulch, course S. E. ascend
- 27.00 Top of ascent, point of mesa, descend
- 35.60 Gulch, course S. 10° E. ascend abruptly  
sandstone
- 40.00 Set a S.S. 18x10x6 ins. in a  
md. of stone for  $\frac{1}{4}$  sec. cor. marked  
and raised md. of ~~stone~~ <sup>2 ft base,  $\frac{1}{2}$  ft high. 70</sup>  
 $\frac{1}{4}$  on N. face; pits impracticable
- 56.00 Top of precipitous point of  
bluff, descend abruptly.
- 74.00 Intersect E. l'dy. <sup>3.60</sup> ~~2.50~~ lks S.  
of cor. of secs. 19 & 30.  
Set a limestone 16x8x6 ins.  
in a md. of stone for closing  
cor. to secs 24 & 25, marked l.c.  
with 2 notches on S. and 4 notches  
and raised md. of stone  $\frac{1}{2}$  ft. high, 2 ft. base  
<sup>70</sup> of cor.  
on N. edged, pits impracticable.
- Land mountainous 74.00 cho



Soil rocky, 4<sup>th</sup> rate.  
May 21-1903

sear.

May 22: At 7 <sup>a.m.</sup> ~~h.~~ b.m. t. I set  
 off  $20^{\circ}14'N.$  on the decl. arc,  
 $35^{\circ}02'N$  on the lat. arc, and  
 determine a true meridian  
 at the cor. of secs. 13, 18, 19 & 24  
 on the E. Side.

Thence I run,

West bet. secs. 13 & 24

40.00 The  $\frac{1}{4}$  sec. cor.

80.09 The cor. of secs. 13, 14, 23 & 24  
 Land rolling

S. bet. secs. 23 & 24

41.97

The  $\frac{1}{4}$  sec. cor. which is a malpais, in a md. of stone marked & witnessed as described by the Surveyor General, bears E. 5,83 chs. which makes the bearing <sup>and distance</sup> of this line S.  $7^{\circ} 55' E$ . <sup>42.37 Chs. ^</sup> Thence from the  $\frac{1}{4}$  sec. cor. A run S.

41.63

~~40.03~~

The cor. of secs. 23, 24, ~~25 & 26~~ bears W. 14 lks.

The true bearing of this line is S.  $0^{\circ} 12' W$ . 41.63

Note: Changes made on this page and on page 8 by authority of Deputy - See letter of W.O. Secor Dec. 30, 1903.



W. bet. secs. 23 & 26

39.80

The  $\frac{1}{4}$  sec. cor. bears N. 23 lks.  
thence W. from  $\frac{1}{4}$  sec. cor.

79.21

$\frac{39}{8}$

39.41

The cor. of secs. 22, 23, 26 & 27  
which is a malpais with a  
md. of stone, marked & wit-  
nessed as described by the  
Surveyor General, bears N.  
22 lks., which makes the true  
length & bearing of this line  
N.  $89^{\circ}40'$  W. 79.21 chs.

At this corner I set off  
 $20^{\circ}16'$  Non the decl. arc, and  
at noon observe the sun  
on the meridian; the  
resulting lat. is  $35^{\circ}01'$  N.

W. bet. secs. 22 & 27

39.83

The  $\frac{1}{4}$  sec. cor. bears N. 82 lks.

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

79.85

The cor. of secs. 21, 22, 27 & 28,

which is a malpais in a

md. of rock, marked & wit-

nessed as described by the

Surveyor General, bears N.

82 lks. which makes the true

length & bearing of this line

N.  $88^{\circ} 50'$  W. 79.85 chs.

W. bet. secs. 21 & 28

39.64 The  $\frac{1}{4}$  sec. cor. bears N. 4 lks.  
thence W. from  $\frac{1}{4}$  sec. cor.

79.27 The cor. of secs. 20, 21, ~~28 & 29~~  
 $\begin{array}{r} 79.27 \\ 39.64 \\ \hline 118.91 \end{array}$   
 which is a malpais with a  
 md. of stone, marked & wit-  
 nessed as described by the  
 Surveyor General, bears N.  
 4 lks. which makes the true  
 length & bearing of this line  
 N.  $89^{\circ}56'$  W. 79.27 chs.

W. bet. secs, 20 x 29

~~40.22~~  
~~26.22~~

The  $\frac{1}{4}$  sec. cor. bears S. 7 lks  
thence W. from  $\frac{1}{4}$  sec. cor.


79.87

The cor. of secs. 19, 20,

which is a limestone in a  
md. of stone, marked & wit-  
nessed as described by the  
Surveyor General, bears S.  
7 lks. which makes the  
length & bearing of this line  
S.  $89^{\circ} 54'$  W. 79.87 cts.

~~40~~  
~~22~~  
39.65



See Amended notes  
for  $\frac{1}{4}$  sec. cor. 

W. bet. secs. 19 & 30

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

79.10 The cor. of secs. 19, 24, 25 & 30  
bears N. 7.10 chs. which makes  
the length & bearing of this line

79.42 chs. N. 84° 52' W.

May 22 - 1903

May 23: At 7 $\frac{1}{2}$  a.m. l. m. t  
 I set off 20° 26' N. on the decl.  
 arc; 34° 59' N. on the lat. arc;  
 and determine a true meridian  
 with the solar at the witness  
 cor. of secs. 34 & 35 on the S.  
 l'd'y. Thence I run  
 N. 0° 01' W. along E. slope of  
 mountain spur. !

- 20.00 Offset W. <sup>2.41</sup> 2.9 + chs. to line  
 bet. secs. 34 & 35, thence N 0° 1' W  
 ✓ Gulch, course E. for 250 lks.  
 30.00 thence S. 20° E.  
 36.00 Gulch, course S. 30° E.  
 40.00 Set a sandstone 16 X 10 X 6 ins.  
 in a md. of stone for  $\frac{1}{4}$  sec.  
 and raised a md. of stone 1 $\frac{1}{2}$  ft. high, 2 ft. base  
 N. of cor.  
 Cor. marked  $\frac{1}{4}$  on W. face !  
 pits impracticable  
 59.00 Gulch course S. E. ascend

80.00 <sup>sandstone</sup> Set a S.S. 20X12X6 ins. in a  
 md. of stone for cor. of secs.  
 34 & 35 marked with 1 notch  
 Raised a md. of stone 1 1/2 ft. high 2 ft. base  
 W. of cor. on S. & 2 notches on E. edges  
 Pits impracticable.  
 from which  
 A yew 5 ins. diam. bears  
 S. 20° E. dist. 97 lks  
 marked T. 19 N. R. 3 E. S. 35 B. T.  
 No other trees in dist.  
 Land mountainous 80.00 chs  
 Soil rocky, 4<sup>th</sup> rate.

From the  $\frac{1}{4}$  sec. cor. bet. secs.

26 & 27 & run

$0^{\circ}01'E$   
S. bet. secs. 26 & 27

27.20 Edge of precipitous bluff of mesa, bears E. & W. descend

42.17 Intersect E. & W. line 6.63 chs. E. of cor. of secs. 34 & 35

Set a <sup>sandstone</sup> S.S. 24 x 12 x 5 ins. in a m.d. of stone for closing cor. to secs. 26 & 27 marked c. c. with 1 notch on S. & 2 notches on E. edges, from which

A yew 10 ins. diam. bears N.  $12^{\circ}$  W. 60 lks. dist.

marked T. 19 N. R. 3 E. S. 27 c. c.

B. T.

A yew 6 ins. diam. bears N.  $10^{\circ}$  E. 86 lks. dist. marked

T. 19 N. R. 3 E. S. 26 C. C. B. T.



Land mountainous <sup>4217</sup>~~42.47~~ chs.

Dense woods 20 chs.

Soil rocky, 4<sup>th</sup> rate.

From the cor. of secs. 34 & 35  
I run E. on a random line  
bet. secs. 26 & 35

40.00 Set temp.  $\frac{1}{4}$  sec. cor.

80.00 Intersect N. & S. line at cor.  
of secs. 25, 26, 35 & 36

Thence I run

W. on a true line bet. secs. 26  
& 35. Over mountainous  
land. Ascending.

3.00 Top of ascent. Descend abruptly.

24.00 Bottom of cañon, course S. E.  
ascend.

40.00 The point for  $\frac{1}{4}$  sec. cor.  
comes on steep slope. I  
therefore continue to

42.26 Set a sandstone 18x12x7 ins.  
in a md. of stone for wit-  
ness  $\frac{1}{4}$  sec. cor. marked

Subs. T. 19 N. R. 3 E.

BOOK 304

md. of stone  $1\frac{1}{2}$  ft. high 2 ft. base. N. face  
 W. c.  $\frac{1}{4}$  on N. face, and raised 1  
 Pits impracticable

47.00 Top of ridge from mesa bears  
 N. W. & S. E. descend

72.60 Gulch course S. ascend

80.00 The cor. of secs. 34 & 35

Land mountainous 80. chs  
 Soil 4th rate

Subs. T. 19 N. R. 3 E.

23

BOOK 304

From the cor. of secs. 33 & 34  
on S. l'dy. & run

N.  $0^{\circ}02'$  W. bet. secs. 33 & 34

Over mountainous ridges

11.30 Gulch, course N.  $80^{\circ}$  E. ascend.

30.00 Gulch, course E.

40.00 Set a sandstone  $22 \times 18 \times 5$  ins.  
in a md. of stone for  $\frac{1}{4}$  sec.  
cor. marked  $\frac{1}{4}$  on W. face,  
from which

A yew 7 ins. diam. bears  
S.  $83^{\circ}30'$  E. dist. 9 lks.

marked  $\frac{1}{4}$  S. 34 B. T.

A yew 6 ins. diam. bears  
N.  $39^{\circ}$  W. dist. 32 lks.

marked  $\frac{1}{4}$  S. 33 B. T.

43.00 Gulch, course S.E. ascend

50.00 Top of bluff of ridge bears  
N. W & S. E.



63.00 Descend abruptly from ridge  
 77.00 Gulch, course E.  
 80.00 Set a lime stone  $16 \times 10 \times 6$  ins  
 in a md. of stone for cor.  
 of secs. ~~27, 28~~, 33 & 34 marked  
 with 1 notch on S. & 3 notches  
 Raised a md. of stone  $1\frac{1}{2}$  ft. high, 2 ft. base  
 on <sup>W. of Cor.</sup> E. edges from which  
 Pits impractical.

A piñon 7 ins. diam. bears  
 S.  $26^\circ$  E. dist. 206 lks.  
 marked T. 19 N. R. 3 E. S. 34 B. T.  
 No other trees in distance.  
 Land mountainous 80.00 chs.  
 Soil 4<sup>th</sup> rate.

May 23 - 1903

May 24: At 7<sup>h</sup> a. m. l. m. t.  
 I set off  $20^{\circ}38'$  N. on the decl.  
 arc;  $35^{\circ}00'$  N. on the lat. arc;  
 and determine a true meridian  
 with the solar at the cor. of  
 secs. 33 & 34.

Thence I run

E. on a random line bet.  
 secs. 27 & 34

27.70

Top of high ridge, from which  
 a flag previously placed  
 at the cor. of secs 34 & 35  
 is visible and bears E.

40.00

Point for  $\frac{1}{4}$  sec. cor. comes  
 in unsafe place on steep  
 slope; set temp.  $\frac{1}{4}$  sec. cor.

80.00

The cor. of secs. 34 & 35

Thence I run

N. on a true line bet. secs.

27 & 34. Over mountainous  
land.

16.00 Gulch course S.E. Ascend  
over rough ridges

48.00 Gulch, course S. Ascend

52.30 Top of high ridge.

Set a sandstone  $20 \times 14 \times 5$  ins  
in a md. of stone for wit-

ness  $\frac{1}{4}$  sec. cor. marked W. C.  
Raised md. of stone  $1\frac{1}{2}$  ft. high. 2 ft base N. face  
 $\frac{1}{4}$  on N. face, from which

*is impracticable*

A pinon 8 ins. diam. bears  
N.  $18^\circ$  W. 22 lbs. dist.

marked  $\frac{1}{4}$  S. 27 W. C. B. T.

No other trees in dist.

Descend

61.00 Gulch, course S.  $30^\circ$  W. ascend  
high ridge

68.40 Top of ridge bears N. E & S. W.  
descend.

70.70 Gulch, course S. W. for 5. oachs

then S. E. Ascend

80.00

The cor. of secs. ~~27, 28~~, 33 & 34

Land mountainous 80.00 chs.

Soil 4<sup>th</sup> rate.



- From the cor. of secs. 21, 22,  
27 & 28 A run  
S 0° 02' E. on a true line bet.  
secs. 27 & 28
- 40.00 The  $\frac{1}{4}$  sec. cor. on line
- 47.00 Edge of bluff of mesa, bears  
E. & W. Descend precipitously.
- 62.00 Bottom of cañon 800 ft. deep,  
course S. 70° W. ascend.
- 83.47 Intersect E. & W. line 7.00 chs  
E. of corner of secs. 33 & 34  
Set a sandstone 20 x 12 x 5 ins  
in a md. of stone for closing  
cor. to sec. 27 & 28 marked C. C.  
with 1 notch on S. and 3 notches  
on E. edges. from which  
A cedar 7 ins. diam. bears  
N. 84° 30' E. 87 lks dist. marked  
T. 19 N. R. 3 E. S 27 C. C. B. T.

A juniper 10 ins. diam. bears  
N.  $52^{\circ}$  W. 52 lks dist. marked  
T. 19 N. R. 3 E. S. 28 l. l. B. T.

Land rolling 47.00 chs. with  
dense pine timber

Land mountainous 36.47 chs.  
with dense brush

Soil 4<sup>th</sup> rate

May 24 - 1903.

May 25. At 7<sup>h</sup> a. m. l. m. t.  
 I set off  $20^{\circ} 49'$  N. on the decl.  
 arc,  $34^{\circ} 59'$  N. on the lat. arc,  
 and determine a true meridian  
 with the solar at the cor. of  
 secs. 32 & 33 on the S. bdy.

Thence I run

N.  $0^{\circ} 03'$  W. bet. secs. 32 & 33

Over mountainous land ascending

- 8.00 Top of steep ascent  
 15.00 Descend.  
 16.50 Gulch, course N.  $60^{\circ}$  E. ascend  
 22.00 Top of bluff bears N. E. & S. W.  
 34.60 Edge of bluff bears E & W.  
 descend abruptly.  
 40.00 Set a lime stone  $30 \times 14 \times 6$  ins.  
 in a md. of stone for  $\frac{1}{4}$  sec.  
 cor. marked  $\frac{1}{4}$  on W. face.  
 from which

A yew 7 ins. diam. bears  
N.  $30^{\circ}30'$  W. dist. 29 lks.  
marked  $\frac{1}{4}$  S. 32 B.T.

A yew 8 ins. diam. bears  
S.  $88^{\circ}30'$  E. dist 33 lks  
marked  $\frac{1}{4}$  S. 33 B.T.

50.00 Edge of bluff of cañon bears  
W. & S.E. descend abruptly.

56.00 Bottom of cañon 400 ft. deep  
course S.  $50^{\circ}$  E. ascend.

73.00 Top of bluff of ridge bears  
N.  $80^{\circ}$  W. & S.  $80^{\circ}$  E.

77.80 Descend from ridge

80.00 Set a limestone  $18 \times 10 \times 6$  ins  
in a md. of stone for cor. of  
secs. 28, 29, 32 & 33, marked

with 1 notch on S. and 4 notches  
Raised a md. of stone  $1\frac{1}{2}$  ft. high. 2 ft. base  
N. of cor.  
on E. edges from which  
Pits impracticable.  
A juniper 8 ins. diam. bears

S.  $52^{\circ}$  E. dist. 152 lks. marked

T. 19 N. R. 3 E. S. 33 B. T.

A piñon 6 ins. diam. bears

N.  $31^{\circ}$  W. dist. 61 lks. marked

T. 19 N. R. 3 E. S. 29 B. T.

No other trees.

Land mountainous 80.00chs.

Dense brush 80.00chs.

Soil 4<sup>th</sup> rate



E. on a random line bet.  
secs. 28 & 33.

40.00 Set temp.  $\frac{1}{4}$  sec. cor.

80.00 The cor. of secs. 33 & 34

Thence I run

W. on a true line bet. secs.  
28 & 33. over mountainous  
land, through dense brush

8.00 Gulch, course S.E. ascend  
over sharp points.

34.00 Gulch, course S.W.

40.00 Set a sandstone 16x9x5 ins.

in a md. of stone for  $\frac{1}{4}$  sec.  
Raised a md. of stone  $1\frac{1}{2}$  ft. high. 2 ft. base  
N. of cor. cor. marked  $\frac{1}{4}$  on N. face

Pits impracticable  
from which

A piñon 8 ins. diam. bears  
S.  $80^{\circ}$  E. dist 86 lks.

No other trees in dist.  
marked  $\frac{1}{4}$  S. 33 B.T.

49.50 Gulch, course S.E. ascend

80.00 The cor. of secs. 28, 29, 32 & 33.  
Land mountainous 80.00 chs.  
Dense brush 80.00 chs.

May 25 - 1903

May 26: At 7<sup>h</sup> a.m. l.m.t.  
 I set off  $21^{\circ}00'$  N. on the decl.  
 arc;  $35^{\circ}00'$  N. on the lat. arc;  
 and determine a true meridian  
 with the solar at the cor.  
 of secs. 28, 29, 32 & 33

Thence I run

$0^{\circ}03'$  W.

N. bet. secs 28 & 29.

Over mountainous land, through  
 dense brush. Descending

9.50 Bottom of cañon, course E.  
 ascend abruptly.

23.40 Top of bluff 600 ft. high  
 bears E. & W.

40.00 Set a ~~ss~~ <sup>sandstone</sup>  $16 \times 12 \times 5$  ins. in  
 a md. of stone for  $\frac{1}{4}$  sec. cor.  
 Raised a md. of stone  $1\frac{1}{2}$  ft. high. 2 ft. base  
 W. of cor. marked  $\frac{1}{4}$  on W. face pits  
 impracticable.

40.50 Edge of bluff of cañon bears

- E. & W. descend abruptly.
- 46.30 Bottom of cañon 1200 ft. below mesa, course S. 60° E  
Ascend abruptly.
- 64.50 Top of rim of mesa, bears E. & N. W. at 4.00 chs. W. turns N.
- 84.00 Intersect E. & W. line 7.88 chs.
- ✓ S 89° 54' W. of corner of secs. 20 & 21  
the markings of which I change to refer to secs. 20 & 21 only
- Set a malpais 18x14x12 ins. in a md. of stone for closing cor. to secs. 28 & 29 marked l. l. with 2 notches on S. and 4 raised a md. of stone 1/2 ft. high, 2 ft. base. <sup>S. of cor.</sup> notches on E. edges, from which pits imp racticable 1.
- A juniper 6 ins. diam. bears S. 63° 30' E. 73 lks. dist.

marked T. 19 N. R. 3 E. S. 28. G. G. B. T.

No other trees.

Land mountainous 84.00 chs.

Dense brush 84.00 chs.

Soil 4<sup>th</sup> rate.



- From the cor. of secs. 31 & 32  
on the S. b'dy. I run  
N.  $0^{\circ}03'W$ . bet. secs. 31 & 32  
Over mountainous land,  
through dense yew-trees.
- 2.00 Top of rim of mesa bears  
N. & S  $80^{\circ}E$ . continue to ascend.
- 8.00 Top of ascent, descend
- 30.00 Edge of rim, descend into cove
- 33.00 Bottom of gulch 300 ft. deep,  
course S.W. ascend.
- 39.50 Top of rim W. side
- 40.00 Set a sandstone  $16 \times 12 \times 8$  ins.  
in a md. of stone for  $\frac{1}{4}$  sec.  
cor. marked  $\frac{1}{4}$  on W. face,  
from which  
A juniper 6 ins. diam bears  
S.  $56^{\circ}E$ . dist. 85 lks.  
marked  $\frac{1}{4}$  S. 32 B. T.

A juniper 34 ins. diam. bears  
 N.  $55^{\circ}30'$  W. 172 lks dist.  
 marked  $\frac{1}{4}$  S. 31 B. T.

50.00 Leave yew timber.

76.40 Gulch course N. E. ascend

80.00 Set a limestone  $18 \times 14 \times 8$  ins.  
 in a md. of stone for cov. of  
 secs. 29, 30, 31 & 32 marked

with 1 notch on S. & 5 notches  
 Raised a md. of stone  $1\frac{1}{2}$  ft. high, 2 ft. base  
 on E. edges <sup>7/8 of cor.</sup> puts impracticable

Land mountainous 80.00 chs.

Sense yews 50.00 chs.

Soil 4<sup>th</sup> rate.

May 26 - 1903

May 27: At 7<sup>h</sup> a. m. l. m. t.  
 I set off  $21^{\circ}10'$  N. on the decl.  
 arc;  $35^{\circ}00'$  N. on the lat. arc,  
 and determine a true meridian  
 with the solar at the cor.  
 of secs. 29, 30, 31 & 32

Thence I run

E. on a random line bet.  
 secs. 29 & 32

40.00 Set temp:  $\frac{1}{4}$  sec. cor.

80.00 The cor. of secs. 28, 29, 32 & 33  
 Thence I run

W. on a true line bet. secs.  
 29 & 32

Along steep slope of ridge

10.00 Descend

40.00 Set a sandstone  $20 \times 10 \times 7$  ins.  
 in a md. of stone for  $\frac{1}{4}$  sec.  
 cor. marked  $\frac{1}{4}$  on N. face.

from which

An oak 5 ins. diam. bears S.  
22° E. 10 lks dist.

marked  $\frac{1}{4}$  S. 32 B. T.

An oak 7 ins. diam. bears  
N. 33° E. 51 lks dist.

marked  $\frac{1}{4}$  S. 29 B. T.

- 41.00 Gulch, course N. E. ascend  
steep slope of butte
- 50.50 Top of point of butte bears S. W.
- 59.00 Edge of bluff of butte bears  
S 50° W. descend abruptly
- 76.40 Gulch, course N. 60° E. ascend
- 80.00 The cor. of secs. 29, 30, 31 & 32  
Land mountainous 80.00 chs.  
Dense brush 80.00 chs.  
Soil 4<sup>th</sup> rate.

- W. on a random line bet secs.  
30 & 31
- 40.00 Set temp.  $\frac{1}{4}$  sec. cor.
- 71.17 The cor. of secs. 25, 30, 31 & 36  
Thence I run  
E. on a true line bet secs. 30 & 35  
Over mountainous land,  
through dense brush, ascending
- 29.50 Top of rim of mesa, bears  
N.  $70^\circ$  W. & S. E.
- 31.17 Set a limestone  $16 \times 10 \times 7$  ins.  
in a md. of stone for  $\frac{1}{4}$  sec.  
Raised, a md. of stone  $1\frac{1}{2}$  ft. high, 2 ft. base.  
N. of cor.  
cor. marked  $\frac{1}{4}$  on N. face  
*Pile impracticable.*  
from which
- A juniper 10 ins. diam. bears  
S.  $2^\circ$  E. 102 lks dist,  
marked  $\frac{1}{4}$  S 31 B. T.  
No other trees.
- 71.17 The cor. of secs. 29, 30, 31 & 32



Land mountainous 71.17 chs.  
dense brush 71.17 chs.  
Soil 4<sup>th</sup> rate.

0°03'W,

N<sub>x</sub> on a true line bet, secs. 29x30

Over mountainous land,  
through dense piñons and  
cedars.

- 8.00 Gulch cours S. 70° E. ascend  
20.00 Top of ascent, descend  
28.00 Edge of cañon bears N. 60° E x  
S. 60° W. descend.  
33.50 Cañon, 400 ft. deep, cours  
N. E. ascend.  
40.00 Set a limestone 16x14x5 ins.  
in a md. of stone for  $\frac{1}{2}$  sec.  
Raised a md. of stone  $\frac{1}{2}$  ft. high. 2 ft. base  
N. of cor. marked  $\frac{1}{4}$  on N. face  
*Pile impracticable.*  
from which.  
A piñon 12 ins. diam. bears  
S. 79°30' E. 72 lks dist.  
marked  $\frac{1}{4}$  S. 29 B. T.  
No other trees.  
Descend to cañon

- 48.00 Cañon 500 ft. deep, course E.  
ascend abruptly
- 53.00 Top of bluff bears E. & W.
- 60.00 Edge of bluff of cañon,  
descend abruptly
- 75.00 Bottom of cañon 700 ft. deep,  
course S. 50° E. ascend abruptly.
- 84.73 Intersect E. & W. line 8.00 chs  
N. 84° 52' W. of cor. of secs. 19 &  
20 I change the marking  
of this cor. to refer to secs.  
19 & 20 only.  
Set a limestone 24x16x8 ins.  
in a md. of stone for closing  
cor. to secs. 29 & 30, marked  
C. C. with 2 notches on S. &  
md. of stone 1½ ft. high, 2 ft. base, S of cor.  
5 notches on E. edge. Ruled a  
Pits impracticable  
Land mountainous 84.73 chs.

Soil 4th rate

May 27 - 1903

Subs. T. 19 N. R. 3 E. BOOK 49 304

May 28: At 7<sup>h</sup> a.m. p.m.t. I set off 21° 21' N. on the decl. arc; 35° 02' N. on the lat arc; and determines a true meridian with the solar at the cor. of secs. 13, 14, 23<sup>and</sup> 24 which is a malpais with md. of stone, with 4 oak bearing trees marked<sup>and</sup> witnessed as described by the Surveyor General; Thence I run N. 0° 01' W. bet. secs. 13 & 14

Descending steep slope of cañon diagonally through dense brush<sup>and</sup> pine timber.

40.00 Set a sandstone 20x14x6 ins. in a md. of stone for  $\frac{1}{4}$  sec. cor. marked  $\frac{1}{4}$  on N. face from which a pins 36 ins. diam. bears N. 65° E. 81 lks. dist. marked  $\frac{1}{4}$  S. 13 B. T.



Subs. T. 19 N. R. 3 E.

BOOK 304

- A pins 36 ins. diam. bears N.  
 20° 30' W. 74 lks. dist. marked  
 1/4 S. 14 B.S.
- 45.00 Bottom of cañon, course N.  
 30° E. Ascend point of bluff.
- 51.00 Top of point, bears N. + S. W.  
 Descend abruptly, leave pins.
- 55.60 Bottom of Lees Cañon, course  
 E. Ascend steep slope.
- 74.25 Top of bluff N. side of cañon
- 80.00 Set a sandstone 19 x 15 x 5 ins.  
 in a md. of stone for cor. of  
 sec. 13 + 14 marked with  
 4 notches on S. and 1 notch  
 Raised a md. of stone 1 1/2 ft. high, 2 ft. base  
 S. of cor. on E. edge. Pits impracticable.
- Land mountainous 80.00 chs.  
 Dense pines 51.00 chs.  
 Dense brush 80.00 chs.  
 Soil 4<sup>th</sup> rate

E. on a true line bet. secs. 12 + 13.

Low mountainous land, dense brush.

7.30 Edge of bluff near point, bears N.W. <sup>and</sup> S.E. at 6 chs. S.E., turns W.

Descend precipitously.

36.00 Bottom of cañon, course S.E., ascend steep slope of point

40.00 Set a sandstone 24 X 20 X 5 ins. in a

md. of stone for  $\frac{1}{4}$  sec. cor. marked  
 Raised a 2nd. of stone  $1\frac{1}{2}$  ft. high. 2 ft. base.  
 $\frac{1}{4}$  on N. face from which

~~Pits imp. rockable.~~  
 A pins 30 ins. diam. bears S.  $56^{\circ}$  E.  
 100 lks. dist. marked  $\frac{1}{4}$  S. 13 B. T.

No other bears in distance.

Descend to deep gulch

57.20 Bottom of gulch, course S.  $10^{\circ}$  E,  
 Thence along steep slope.

87.00 Intersect E. bdy. Tp. 95 lks. S. of  
 cor. of secs. 7 <sup>and</sup> 18.

See amended  
 notes for  
 east  $\frac{1}{4}$  mile

Set a sandstone 24 X 16 X 5 ins. in a

md. of stone for closing cor. to  
 secs. 12<sup>and</sup> 13 marked C.C. with  
 raised a md. of stone  $1\frac{1}{2}$  ft. high, 2 ft. base  
 4<sup>W. of cor.</sup> notches on S. and 2 notches on  
 N. edges. Pits impracticable.  
 Land mountainous 87.00 Chs.  
 Dense brush 87.00 Chs.  
 May 28, 1903.

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May 29: at 7<sup>h</sup> a.m. l.m.t. I set off  
 $21^{\circ}30'N.$  on the decl. arc;  $35^{\circ}03'N.$   
 on the lat. arc; & determine a  
 true meridian with the solar  
 at the cor. of secs. 13 & 14.  
 Thence I run

N. on a random line bet. secs. 11 & 14.

40.00

Set temp  $\frac{1}{4}$  sec. cor.

80.02

The cor. of secs. 10, 11, 14 & 15 which  
 is a limestone  $14 \times 8 \times 8$  ins. in a  
 md. of stone, properly marked,

Subs. T. 19 N. R. 3 E.

BOOK

53

304

from which a spruce 4 ins. diam.  
bears S.  $75^{\circ}$  E. 23 lks. dist. marked  
T. 19 N. R. 3 E. S. 14 B. T.

a spruce 10 ins. diam. bears N.  $47^{\circ}$  E.  
40 lks. dist. marked T. 19 N. R. 3 E.

S. 11 B. T. — A spruce 5 ins. diam.  
bears N.  $74^{\circ}$  W. 74 lks. dist. marked  
T. 19 N. R. 3 E. S. 10 B. T. Thence I run  
E. on a true line bet. sec. 11 + 14.

Over mountainous land through  
dense spruce <sup>and</sup> brush, ascending

0.50 Top of point, bears N. W. Descend.

1.50 Gulch, course N. ascend.

10.00 Top of point of bluff, Descend.  
Leave spruce timber ascend.

25.75 Bottom of Lee's Cañon, course S.  $60^{\circ}$  E. x

29.55 Top of point of slope, Descend.

40.00 Set a sandstone 18x14x6 ins. in  
a md. of stone for  $\frac{1}{4}$  sec. cor. marked



- Raised a mg. of stone  $1\frac{1}{2}$  ft. high,  $2\frac{1}{4}$  ft. face. N. of cor.
- $\frac{1}{4}$  on N. face. <sup>course</sup> Pits impracticable.
- 40.50 Bottom of cañon S.  $50^\circ$  E. ascend.
- 53.00 Top of bluff of mesa, bears N.  $50^\circ$  E. and S.  $70^\circ$  W.
- 80.02 The cor. of secs. 11, 12, 13 + 14.  
Land mountainous 80.02 chs.  
Dense brush 80.02 chs.  
Soil 4<sup>th</sup> rats.

See amended  
notes for N  
 $\frac{1}{2}$  mile

- ~~From the cor. of secs. 12 + 13 on the E. side. I turn to the witness point of secs. 7, 12, 13 and 18 which is on edge of bluff and is visible from my station and run N.  $8^\circ 05'$  E.~~
- 22.07 The witness point of secs. 7, 12, 13 + 18  
Thence from the witness point run N. bet. secs. 7 + 12



Subs. T. 19 N. R. 3 E.

BOOK

55

304

~~19.00~~

~~The  $\frac{1}{4}$  sec. cor. bet. secs. 7<sup>and</sup> 12~~

~~59.00~~

~~The cor. of secs. 1, 6, 7 + 12, which is a malpais 12 x 16 x 18 ins. above ground, marked and witnessed as described by the Surveyor General, bears E. 5 lks. which makes the true bearing of this line N. 0° 03' E.~~

N. bet. secs. 1<sup>and</sup> 12.

40.00

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

84.35

The cor. of secs. 1, 2, 11 + 12, which is a malpais marked and witnessed as described by the Surveyor General, bears S. 60 lks. which makes the true bearing of this line S. 89° 35' N.

*See amended notes for this mile*

S. bet. secs. 11 + 12

40.05

The  $\frac{1}{4}$  sec. cor. which is a sandstone

See amended  
notes for  
this mile

- 12 x 12 x 5 ins. in a md. of stone,  
marked & witnessed as described  
by the surveyor General, brass  
E. 2 lks. thence S. <sup>0° 02' E</sup> from 1/4 sec. cor.  
discined abruptly.
- 44.40 Edge of bluff, brass N. W. + S. E.
- 55.00 Bottom of cañon, course S. E. ascend.
- 75.20 Top of bluff of point of mesa, <sup>bear NW + SE.</sup>
- 80.30 Intersect E + W. line 5.83 chs.  
E. of cor. of secs. 13 + 14.  
Set a sandstone 22 x 16 x 6 ins. in  
a md. of stone for closing cor.  
to secs. 11 + 12, marked w C.C.  
with 4 notches on S. and 1 notch on  
N. <sup>Raised a md. of stone 1 1/2 ft. high, 2 ft. base</sup>  
E. edge, pits impracticable.
- Land mountains 80.30 chs.
- Dense brush 80.30 chs.
- Soil 4<sup>th</sup> rate.

May 29, 1903.

May 30: at 8<sup>h</sup> a.m. l.m.t. I set off 21° 40' N. on the decl. arc; 35° 04' N. on the lat. arc; <sup>and</sup> determine a true meridian with the solar at the cor. of secs. 1, 2, 11 & 12. Thence I run N. bet. secs. 2 & 11.

*Recommended  
notes for 1/4 cor.*

40.00

I am unable to find the 1/4 sec. cor.

85.97

The cor. of secs. 2, 3, 10 & 11 which is a malpais 12x8x8 ins., marked and witnessed as described by the Surveyor General, bears S. 10 lks. which makes the true bearing of this line S. 89° 56' W.

S. bet. secs. 10 & 11.

40.06

The 1/4 sec. cor. which is a limestone 10x12x12 ins. above ground, marked & witnessed as described

80.07

by the Surveyor General,  
 bears N. 2 lks. True course  $50^{\circ}2'W$ .  
 The cor. of secs. 10, 11, 14 & 15.

✓

True course last  $\frac{1}{2}$  mile  $50^{\circ}2'E$  40.01

From the cor. of secs. 7 <sup>and</sup> 18 on the E. bdy.  
 It runs to the  $\frac{1}{4}$  sec. cor. on W. bdy. sec. 18, which  
 is visible <sup>and</sup> find the bearing to be  $S. 8^{\circ}05'N$ .

4 survey  
 acc. subsequently  
 Jacobs

The  $\frac{1}{4}$  sec. cor. which is a malpais in a  
 mound of stone with two pins bearing trees  
 Thence S. from the  $\frac{1}{4}$  sec. cor.

39.92

The cor. of secs. 13, 18, 19, <sup>and</sup> 24  
 bears West 1.2 lks. which makes  
 the true bearing of this  $\frac{1}{2}$  mile  $S 1^{\circ}36'N$  39.93  
 May 30, 1903



— General Description —

This fractional township is exceedingly rough <sup>and</sup> mountainous.

It lies largely along the edge and S. of the Verde Rim of the high Mogollon Plateau.

There is no living water on this portion of the township.

It is generally covered with a dense growth of manzanita brush and yew timber with but little grass.

There are no settlers in the township.

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

(For final plats see 3197 R 6 E sub.)



A P P R O V A L.

Office of the  
United States Surveyor-General,  
Phoenix, Arizona.

~~June 14~~ - 1904  
Feb - 11 -

The foregoing field notes of the sur-  
vey of *Subdivisional lines of T. 19 N. R. 3 E*

of the Gila and Salt River Base and Me-  
ridian, in the Territory of Arizona,  
executed by *W. Oscar Secor*

United States Deputy Surveyor, under his  
contract No. 102, dated *June 30 - 1902*,  
having been critically examined, and the  
necessary corrections and explanations  
made, the said field notes, and the sur-  
veys they describe, are hereby approved.

*Frank S. Briggs*

U. S. Surveyor-General.

