

Book 1
Subdivisions
T. 19 N. - R. 2 E

W. O. Secor
Contract #102

BOOK 299

No 299

BOOK 299

4-671

BOOK 299

299

FIELD NOTES
GENERAL LAND OFFICE.

No 299

Recd. Sept 21. 03

Copied Nov 8-9 / w 1/14

Compared 12/1/03

Thompson + Tesley

Corrections to books Dec 4/5/03

These sheets copied 12/8/03 C. M.
Tesley

" " compared all

acts checked
C. M.

Notes Copied C. M.
Notes recopied C. M. 1/23/04
1/27/04

BOOK 299

~~Notes~~

No-299

Field Notes
of the survey of the
Subdivisional Lines

of
Tp. 19 N. R. 2 East
of the

Gila and Salt River Basins and Meridian

in the
Territory of Arizona

as surveyed by
W. Oscar Secor,

U.S. Deputy Surveyor
Under his contract

No 102 Dated June 30, 1902.

Survey commenced June 7, 1903

Survey completed June 17, 1903

BOOK 299

Assistants

- Joel Anderson Chairman
- A. B. Johnson "
- J. M. Lockwood Moundman
- C. J. Schwartz Axman
- Hubert Harpham "
- Norman Cooks Flagman

Township 19 N Range 2 E
BOOK 299 County, _____

NORTH					
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
SOUTH					

WEST EAST

Handwritten numbers in red ink:
 Row 1: 52, 50, 47
 Row 2: 46, 44, 43, 27, 14
 Row 3: 44, 36, 26, 12, 10
 Row 4: 41, 32, 22, 8, 6
 Row 5: 57, 56, 40, 31, 20, 6
 Row 6: 54, 38, 29, 18, 7

June 7: At 7^h a. m. l. m. t.
 I set off $22^{\circ} 41' N.$ 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. 35 & 36 on the S. bdy.

Thence I run

$N. 0^{\circ} 01' W.$ bet. secs. 35 & 36

Over mountainous land,
 through dense cedars, descending

40.00

Set a ^{sandstone} S.S. $17 \times 12 \times 4$ ins. 10 ins
 in ground for $\frac{1}{4}$ sec. cor.
 marked $\frac{1}{4}$ on W. face,
 from which

A cedar, 24 ins. diam. bears
 $N. 86^{\circ} E. 148$ lks dist.
 marked $\frac{1}{4}$ S. 36 B. T.

A cedar 8 ins. diam. bears
 $N. 82^{\circ} W. 58$ lks. dist.

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

80.00 Set a malpais 18x14x10 ins.
in a md. of stone for cor. of
secs. 25, 26, 35x36, marked
with 1 notch on S. & E. edges,
from which

A cedar branch 6 ins. diam.
bears N. 45° E. dist. 153 lks.
marked T. 19 N. R. 2 E. S. 25 B. T.

A cedar 8 ins. diam. bears
N. 82° W. dist. 58 lks.

marked T. 19 N. R. 2 E. S. 26 B. T.

No other trees ^{Build a md. of stone}
2½ ft. base 1½ ft. high
Pile impracticable. W. of. sec.

Land mountainous 80.00 chs.

Dense cedars 80.00 chs.

Soil 4th rate.

E. on a random line bet.
secs. 25 & 36.

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

79:88 Intersect E. B'd'y. Tp. 10 lks S
of cor. of secs. 25, 30, 31 & 36

Thence I run

S. $89^{\circ}56'$

W. on a true line bet. sec.
25 & 36

18.00 Over mountainous land, ascending
Top of point of mesa, descend
abruptly.

38.80 The point for $\frac{1}{4}$ sec. cor.
comes in unsafe place I
therefore set a ^{sandstone} S.S. 30 X 12 X 4 ins
in a md. of stone for witness
 $\frac{1}{4}$ sec. cor. marked W. l.

*(Build mid of stone 2 1/2 ft. base 1 1/2 ft. high & N. of cor.
on N. face pits impracticable.)*

39.94 *Point for $\frac{1}{4}$ sec. cor.*
Deep narrow gulch to S.

77.75 Gulch, course S. 10° E.

Subs. Tp. 19 N. R. 2 E.

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79.88 The cor. of secs. 25, 26, 35 x 36
Land mountainous 79.88 chs
Soil 4th rate.

June 7, 1903 at this cor. at noon
l.m.t. I set off $22^{\circ}42'$ N on
the decl. arc. and observe the
sun on the meridian. the
resulting latitude is $35^{\circ}00'$ N.

see letter
Jan. 17/04

- N. $0^{\circ}01'$ W. bet. secs. 25 & 26.
 Over mountainous land,
 ascending slope of mesa,
 through dense brush.
- 39.00 Gulch, course S. 10° E
- 40.00 Set a sandstone $30 \times 16 \times 6$ ins.
 in a md. of stone for $\frac{1}{4}$ sec.
 cor. marked $\frac{1}{4}$ on W. face,
 pits impracticable.
- 57.00 ^{Build md. of stone $2\frac{1}{2}$ ft. base $1\frac{1}{2}$ ft. high. W. of cor.}
 Top of point of slope of
 mesa, descend abruptly.
- 76.85 Edge of precipitous bluff.
 Descend.
- 80.00 ^{Sandstone}
 Set a ~~S.S.~~ $16 \times 12 \times 6$ ins. in
 a md. of stone for cor. of
 secs. 23, 24, 25 & 26, marked
 with 2 notches on S & 1 notch
 on E. edges, from which
 a cedar, 18 ins. bears

S. 65° W. 61 lks dist.

No other trees in dist.

marked T. 19 N. R. 2 E. S. 26 B. T.

Build mod. of stems $2\frac{1}{2}$ ft. base, $\frac{1}{2}$ ft. high w. of cor.

Land mountainous 80.00 cho.

Salsinprach.

Dense brush 80.00 cho.

June 7 - 1903

June 8: At 7^h a. m. l. m. t.
 I set off $22^{\circ}47'N.$ on the decl.
 arc; $35^{\circ}01'N.$ on the lat. arc,
 and determine a true meridian
 at the cor. of secs. 23, 24, 25 & 26
 Thence I run

$N89^{\circ}56'$ E. on a true line bet. secs.
 24 & 25

Over mountainous land,
 through dense brush, ascend-
 ing over sharp ridges of mesa.

40.00 Set a sandstone $20 \times 14 \times 8$ ins.
 in a md. of stone for $\frac{1}{4}$ sec.
 cor. marked $\frac{1}{4}$ on N. face,

pits impracticable. (Build md
 of stone $2\frac{1}{2}$ ft. base $1\frac{1}{2}$ ft. high N. of cor.)
 55.00 Top of rim of mesa bears
 N. & S. at 5 chs. S. turns S. W.

66.00 Jerome trail bears $N. 10^{\circ} E$ &
 $S. 10^{\circ} W.$

79.92 Intersect E. b'dy. Tp. 11.00 chs.
 S. of cor. of secs. 19, 24, 25 & 30,
 the marking of which I
 change to refer to E. secs. only.
 Set a sandstone 18 x 12 x 6 ins.
 in a md. of stone for closing
 cor. to secs. 24 & 25, marked
 l. l. with 2 notches on S. &
 4 notches on N. ^{faces} ~~edges~~, from
 which

A juniper 12 ins. diam.
 bears N. 55° W. 194 lks. dist.
 marked T. 19 N. R. 2 E. S. 24 B. T.

A juniper 18 ins. diam. bears
 S. 66° W. 297 lks. dist.
 marked T. 19 N. R. 2 E. S. 25 B. T.

Land mountainous 79.92 chs.
 Dense brush 79.92 chs.

- N. $0^{\circ}01'$ W. bet. secs. 23 & 24
Over mountainous land,
through dense brush.
- 0.20 Bottom of gulch, course W.
ascend abruptly.
- 16.00 Top of point of bluff, bears
N. W & N. E. continue to ascend
along bench of mesa
- 40.00 Set a ^{sandstone} s.s. $18 \times 10 \times 6$ ins. in
a md. of stone for $\frac{1}{4}$ sec. cor.
marked $\frac{1}{4}$ on W. face, from
which
- A piñon 5 ins. diam. bears
N. $57^{\circ}30'$ W. 37 lks. dist,
marked $\frac{1}{4}$ S. 23 B. T. No other
trees. Ascend abruptly. ^{Build md. of stone 2 ft. base 1 ft. high W of cor.}
- 44.00 Top of mesa, at point,
bears N. W & N. E.
- 68.00 Edge of bluff of cañon,

bears N. W. x S. E. descend

78.00 Bottom of cañon, course S.

70° E. ascend

sandstone

80.00 Set a S.S. 18 x 12 x 5 ins. in
a md. of stone for cor. of
secs. 23 x 24, marked with
5 notches on SW
~~3 notches on S.~~ & 1 notch on
E. edges, pits impracticable.
Built with stone 2 1/2 ft base & 1/2 ft high wall of cor.

Land mountainous 80.00 chs.

Dense brush 80.00 chs.

Soil 4th rate.

June 8 - 1903

June 9: At 7^h a. m. l. m. t.
 I set off $22^{\circ}53'$ 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. 23 x 24.
 Thence I run $N 89^{\circ}56' E$
^{bet. sec. 23 & 24}
 on a true line, ~~on N. b'dy.~~
 sec. 24.

- Over mountainous land,
 through dense brush, descending
- 10.00 Bottom of gulch, course S.E.
 ascend
- 18.00 Top of point of ridge bears
 N. W. Descend.
- 34.00 Bottom of cañon, course
 S. ascend over sharp ridge
 from the mesa.
- 40.00 An unsafe place for the $\frac{1}{4}$ sec. cor

52.65 Set a malpais 18 x 12 x 10 ins.
in a md. of stone for wit-
ness $\frac{1}{4}$ sec. cor. marked
W. C. $\frac{1}{4}$ on N. face, from which
A juniper 14 ins. diam. bears
N. 60° E. 84 lks. dist.
marked $\frac{1}{4}$ S 13 W. C. B. T.

Pts?

53.00 No other trees. *Set impracticable*
Build a md. of stone $\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high N of cor.
Top of rim of mesa bears
N. 30° W x S. 30° E.

80.34 Intersect E. ldy. Tp. 9-20 chs
S. of cor. of secs. 13, 18, 19 & 24
the markings of which I
change to refer to the E. secs
only.

Set a malpais 24 x 14 x 6 ins.
in a md. of stone for closing
cor. to secs. 13 & 24, marked
C. C. with 3 notches on N &

faces

S. ^{faces} ~~edges~~, from which

A pine 14 ins. diam. bears
N. $52^{\circ}30'$ W. 183 lks. dist.
marked T. 19 N. R. 2 E. S. 13 b. b.
B. T.

A cedar 16 ins. diam. bears:
S. $68^{\circ}30'$ W. 178 lks. dist.
marked T. 19 N. R. 2 E. S. 24 b. b.
B. T.

Land mountainous 80.34 chs.
Dense brush 80.34 chs.
Soil 4th rate.

From the cor. of secs. 11, 12, 13 & 14
I run

S. bet. secs. 13 & 14

39.63 The $\frac{1}{4}$ sec. cor. bears W. 20 lks
which makes the true
bearing of this line S. 0° 17'
W. Thence S. ^{0° 01' E} from the $\frac{1}{4}$ sec.
cor. on a true line.

50.00 Intersect E. & W. line 94 lks.
E. of cor. of secs. 23 & 24.

Set a limestone 20 x 16 x 10 ins.
in a md. of stone for closing
cor. to secs. 13 & 14, marked
c. c. with 3 matches on S. and
1 match on E. ^{faces} edges. Pits
impracticable. Build a md. of
stone $2\frac{1}{2}$ ft. base $1\frac{1}{2}$ ft. high W. of cor. of

Land mountainous 50.00 chs.
Dense brush 50.00 chs. Soil 4th rate

June 9 - 1903

June 10: At 7^{1/2} a.m. l.m.t.
 I set off 22°58' N. on the dec.
 arc; 34°59' N. on the lat. arc
 and determine a true meridian
 with the solar at the cor. of
 secs. 34 & 35 on the S. B'dy.

Thence I run

N. 0°01' W. bet. secs. 34 & 35.

Over mountainous land
 through dense brush & cedar

38.60 Gulch, course S.W. ascend

40.00 Set a malpais 18x12x6 ins
 in a md. of stone for $\frac{1}{4}$ sec
 cor. marked $\frac{1}{4}$ on W. face,
 from which

A cedar 5 ins. diam. bears

N. 73° W. 33 lks. dist.

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

A cedar 6 ins. diam. bears

N. $74^{\circ}30'E$. 29 lks. dist.
marked $\frac{1}{4}$ S. 35 B. T.

68.00 Top of mesa bears N.W. x S.E.

80.00 Set a malpais 18 x 10 x 5 ins.
in a md. of stone for cor.
of secs. 26, 27, 34 & 35, marked
with 1 notch on S & 2 notches
on E. edges, from which

A cedar, 16 ins. diam. bears
S. $42^{\circ}W$. 109 lks. dist.

marked T. 19 N. R. 2 E. S. 34 B. T.

A cedar 6 ins. diam. bears
N. $76^{\circ}W$. 51 lks. dist.

marked T. 19 N. R. 2 E. S. 27 B. T.

No other trees. *Build a md. of
stone $2\frac{1}{2}$ ft. base $1\frac{1}{2}$ ft. high w. of cedar
Pile of lumber of cedar*
Land mountainous 80.00 chs.

Dense brush 80.00 chs.

Dense cedars. 80.00 chs.

Soil 4th rate

- E. on a random line bet.
secs. 26 & 35
Over mountainous land,
through dense cedars.
- 40.00 Set temp. $\frac{1}{4}$ sec. cor.
- 79.92 Intersect N. & S. line 9 lks
S. of cor. of secs. 25, 26, 35 & 36
Thence I run
S. $89^{\circ}56'W.$ on a true line
bet. secs 26 & 35
Ascending
- 23.00 Top of mesa bears N. $10^{\circ}E$ &
S. $10^{\circ}W.$
- 39.96 Set a malpais $16 \times 10 \times 6$ ins.
in a md. of stone for $\frac{1}{4}$ sec.
cor., marked $\frac{1}{4}$ on N. face
from which
A cedar 8 ins. diam. bears
S. 7 lks. dist.

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

A cedar 7 ins. diam. bears
N. 35° E. 51 lks dist.

marked $\frac{1}{4}$ S. 26 B. T.

79.92 The cor. of secs. 26, 27, 34 & 35
Land mountainous 79.92 chs.
Dense cedar 79.92 chs.
Soil 4th rate.

- N. $0^{\circ}01'W.$ bet secs. 26 & 27
Over mountainous land,
through dense brush.
- 15.00 Edge of mesa, bears $E \times S. W.$
Descend abruptly.
- 32.00 Bottom of cañon, course $W.$
ascend.
- 40.00 Set a ^{sandstone} ~~s.s.~~ $18 \times 18 \times 5$ ins. in a
md. of stone for $\frac{1}{4}$ sec. cor.
marked $\frac{1}{4}$ on $W.$ face.
- 74.60 *Pits impracticable. Build a
md. of stone $\frac{1}{2}$ base $\frac{1}{2}$ ft. high. wd. of cor.*
Top of mesa bears $S 60^{\circ} E \times$
 $N. 60^{\circ} W.$ proceed through
dense cedars.
- 80.00 Set a malpais $18 \times 10 \times 7$ ins.
in a md. of stone for cor.
of secs. 22, 23, 26 & 27, marked
with 2 notches on $S \times E.$
edges, from which

Subs. Tp. 19 N, R. 2 E,

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A cedar, 10 ins. diam. bears
S. $36^{\circ}30'$ W. 30 lks dist.

marked T. 19 N. R. 2 E. S. 27 B. T.

A cedar 12 ins. diam. bears
S. 67° E. 30 lks. dist

marked T. 19 N. R. 2 E. S. 26 B. T.

A cedar 8 ins. diam. bears
N. 69° E. 24 lks dist.

marked T. 19 N. R. 2 E. S. 23 B. T.

A cedar 12 ins. diam. bears
N. $83^{\circ}30'$ W. 37 lks. dist.

marked T. 19 N. R. 2 E. S. 22 B. T.

Land mountainous 80.00 chs.

Dense brush 80.00 chs.

Soil 4th rate

June 10 - 1903

June 11: at 7^h a.m. l. m. t. I set off
 $23^{\circ}03'N$. on the decl. arc; $35^{\circ}01'N$.
 on the lat. arc; ^{and} determine a true
 meridian with the solar at the
 cor. of secs. 22, 23, 26 + 27, thence I run
 $N. 89^{\circ}56'E$. on a random line
 bet. secs. 23 ^{and} 26.

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

79.87 Intersect N. ^{and} S. line of N. of
 cor. of secs. 23, 24, 25 + 26, thence I run
 N. on a true line bet. secs. 23 + 26.

10.20 Gulch from N. to S.W. ascend.

21.00 Top of point. Descend

29.50 Gulch, course S. $30^{\circ}E$, ascend ^{abruptly.}

34.50 Top of bluff, brass $N. 10^{\circ}W + S. 10^{\circ}E$,

39.93^{1/2} Set a sandstone $16 \times 12 \times 8$ ins. in
 a mid. of stone for $\frac{1}{4}$ sec. cor. marked
 $\frac{1}{4}$ on N. face, from which
 a juniper 10 ins. diam. brass

Subs. T. 19 N. R. 2 E.

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N. $73^{\circ}30'$ E. 88 hrs. dist.

marked 1/4 S. 23 B. T. No other trees.

48.00

Build a myel stone at base of high N of cor.
Edge of bluff, bears N.W. + S.E. ascend.

58.60

Bottom of gulch, course S.E. ascend.

71.00

Top of bluff, bears N.W. + S.E.

79.87

The cor. of secs. 22, 23, 26 + 27.

Land mountainous 79.87 chs.

Dense brush 79.87 chs.

Soil 4th rate.

- N. 0° 01' W. on a random line bet. secs. 22 + 23
- 40.00 Set temp. $\frac{1}{4}$ sec. cor.
- 90.38 This cor. of secs. 14, 15, 22 + 23
brass E. 49 lks. thence I run
S. 0° 19' W. on a true line bet. secs. ^{22 + 23}.
- 50.38 Set a malpais 16 x 12 x 10 ins. in a
md. of stone for $\frac{1}{4}$ sec. cor.
marked $\frac{1}{4}$ on W. face, from which
a cedar 4 ins. diam. brass N. 60° 30' W.
34 lks. dist. marked $\frac{1}{4}$ S. 22 B.T.
a cedar 7 ins. diam. brass S. 33° E. 11 lks.
dist. marked $\frac{1}{4}$ S. 23 B.T.
- 67.00 Descend to gulch.
- 71.70 Bottom of gulch, course S.E., ascend.
- 73.40 Top of bluff, brass N 40° W. + S. 40° E.
- 90.38 This cor. of secs. 22, 23, 26 + 27.
Land mountainous 90.38 chs.
Dense brush 90.38 chs.
Soil $\frac{1}{4}$ rate.

From the cor. of secs. 23+24

I run W. on a true line bet. secs. 14+23.

Ascending along N. side of gulch.

12.50

Head of gulch, course E.

40.00

Set a limestone 16x12x5 ins. in a rnd. of stones for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N. face from which

a pinon 12 ins. diam. bears S. $69^{\circ}30' E$.

16 lks. dist. marked $\frac{1}{4}$ S. 23 B. T.

No other bears in dist. *Build a*

79.44

rd. of stones 2 ft. base 1 1/2 ft. high. 2 ft. base
Intersect N. + S. line 10.48 chs. S.

of cor. of secs. 14, 15, 22 + 23, the marking of which I change to refer to secs. 15 and 22 only.

Set a malpais 22x10x8 ins. in a rnd. of stones for closing cor. to secs.

14 and 23, marked with 3 notches on S. and 2 notches on E. *faces* which

a cedar 8 ins. diam. bears N. $44^{\circ}30' E$.

286 lbs. dist. marked T. 19 N. R.
2 E. S. 14 B. T.

Cedar 8 ins. diam. bears S. 44° E.
152 lbs. dist. marked T. 19 N. R.
2 E. S. 23 B. T.

Land mountainous 79.44 chs.
Dense cedar brush 79.44 chs.
Soil 4th rats.

June 11. 1903.

June 12: at 7^h a.m. l.m.t. I set off
 23107 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. 33 ^{and} 34 on
 the S. Bdy, thence I run
 $N.0^{\circ}02'W.$ bet. secs. 33 + 34.

Over mountainous land ^{and}
 through dense brush. Descending.

5.00

Bottom of gulch, course $S.70^{\circ}W.$
 at 5 chs, turns $W.$

12.00

Ascend steep slope of mesa.

40.00

Set a sandstone $30 \times 26 \times 4$ ins.
 in a md. of stone for $\frac{1}{4}$ sec. cor.
 marked $\frac{1}{4}$ on $W.$ face.

Pits impracticable. <sup>Build a md.
 of stone $2\frac{1}{2}$ ft. base $\frac{1}{2}$ ft. high. w. of cor.</sup>

72.25

Top of bluff bears $N.W.$ + $S.E.$

80.00

Set a malpais $18 \times 10 \times 8$ ins. in a
 md. of stone for cor. of secs. 27.

30 Subs. Tp. 19 N. R. 2 E. BOOK 299

28.33 and 34 marked with 1 notch
on S. and 3 notches on E. edges,

from which

A cedar 8 ins. diam. bears N. 19° W.

91 lbs. dist. marked J. 19 N. R. 2 E. S. 28 B. J.

No other trees in dist. Build a mud

water $2\frac{1}{2}$ ft. base of fl. high 7 1/2 ft. of cor.
Pit 2 1/2 ft. deep 80.00 chs.

Dense brush 80.00 chs.

Soil 4th rate.

Subs. T. 19 N. R. 2 E.

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- E. on a random line bet. secs. 27+34.
- ~~40.00~~ Set temp. $\frac{1}{4}$ sec. cor.
- 80.11 The cor. of secs. 26, 27, 34+35
Thence I run
W. on a true line bet. secs. 27+34.
Over mountainous land, ^{and}
through dense brush.
- 8.30 Edge of mesa, bears N+S.
Descend abruptly.
- 24.00 Bottom of cañon, course S.
Ascend.
- 40.05 $\frac{1}{2}$ Set a sandstone 30x10x5 ins.
in a md. of stones for $\frac{1}{4}$ sec. cor.
marked $\frac{1}{4}$ on N. face.
- 54.50 Pits impracticable. *Build a md.
of stones $\frac{1}{4}$ ft. base $\frac{1}{2}$ ft. high N. of cor.*
Top of bluff bears N+S+W.
Descend.
- 66.00 Gulch, course N. Ascend.
- 78.00 Top of rim.

- 80.11 The cor. of secs. 27, 28, 33 + 34.
Land mountainous 80.11 Chs.
Dense brush 80.11 Chs,
Soil 4th rate.
- N. 0° 02' W. bet. secs. 27^{and} 28
Over mountainous land and
through dense brush.
- 16.00 Rim of mesa, bears N.W.^{and} S.E.
Descend abruptly.
- 35.00 Bottom of cañon course E,
Ascend abruptly.
- 40.00 Set a sandstone 17 x 14 x 4 ins. in
a rnd. of stone for 1/4 sec. cor. marked
1/4 on W. face. Pits impracticable.
- 54.00 *Base am. of stone 2 1/2 ft. base 1/2 ft. high & W. of cor.*
Top of bluff, bears N 70° W + S. 70° E.
- 77.30 Edge of bluff, bears N.W + S. 70° E,
Descend abruptly.

80.00 Set a sandstone 24 x 10 x 6 ins. in
 a rnd. of stone for cor. of sec. 21,
 22, 27 & 28, marked with 2 notches
 on S. and 3 notches on E. edges
 From which

A pine 4 ins. diam. bears N. 67° W.
 17 lks. dist. marked J. 19 N. R. 2 E. S.
 21 B. J.

A pine 6 ins. diam. bears S. 35° W.
 47 lks. dist. marked J. 19 N. R.
 2 E. S. 28 B. J.

A piñon 8 ins. diam. bears S. 62° E.
 104 lks. dist. marked J. 19 N. R.
 2 E. S. 27 B. J. No other trees in dist.

Outs impracticable Build a rnd. of stone 2½ ft. base 1½ ft. high w. of
 Land mountainous 80.00 Chs.

Dense brush 80.00 Chs.
 Soil 4th rate.

June 12-1903.

June 13; at 7^h a.m. l. m. t. I set off
 $23^{\circ} 11' N.$ on the decl. arc; $35^{\circ} 01' N.$
 on the lat. arc; and determine a
 true meridian with the solar
 at the cor. of secs. 21, 22, 27 and 28.
 Thence I run

E. on a random line bet. secs. 22 + 27.

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

80.08 Intersect N. and S. lines 9 lks. S.
 of cor. of secs. 22, 23, 26 and 27.
 Thence I run

S. $89^{\circ} 56' W.$ on a true line bet.
 secs. 22 + 27.

Over mountainous land thro.
 dense cedars + brush.

12.00 Edge of mesa bears N.W. + S.E.
 Descend abruptly.

40.04 Set a sandstone $26 \times 16 \times 4$ ins.
 in a md. of stone for $\frac{1}{4}$ sec. cor.

marked $\frac{1}{4}$ on N. face, from which
 A piñon 10 ins. diam. bears N. 54° E.
 49 lks. dist. marked $\frac{1}{4}$ S. 22 B. T.
 A cedar 10 ins. diam. bears S. 54° W.
 84 lks. dist. marked $\frac{1}{4}$ S. 27 B. T.

66.00 Bottom of cañon, course S. E.
 Ascend abruptly.

80.08 The cor. of secs. 21, 22, 27 + 28
 Land mountainous 80.08 chs.
 Dense brush 80.08 chs.
 Soil 4th rate.

- N. 0° 02' W. bet. secs. 21 + 22
 Over mountainous land ^{and}
 through dense brush.
- 1.00 Gulch, course N.E.
- 13.00 Bottom of cañon, course S.E.,
 Ascend abruptly.
- 40.00 Set a malpais 18x10x7 ins. in a
 md. of stone for $\frac{1}{4}$ sec. cor. marked
 $\frac{1}{4}$ on W. face, from which
 a cedar 6 ins. diam. bears S. 10° E,
 73 lks. dist, marked $\frac{1}{4}$ S. 22 B.S.
- 70.00 ^{No other trees in dist. Build end of stone 2 1/2}
^{ft. base 1/2 ft high full of cor. into the rock}
 Top of mesa, bears S.E. $\frac{1}{4}$ S.W.
- 90.41 Intersect E. ^{and} W. lines 154 lks.
- 587⁵⁴ W. of cor. of secs. 15, 16, 21 + 22,
 the markings of which I change
 to refer to secs. 15 ^{and} 16 only.
 Set a malpais 18x12x10 ins. in a
 md. of stone for closing cor. to
 secs. 21 ^{and} 22, marked ^{C.C.} with

3 notches on S. and E. ^{faces} ~~edges~~
 From which

A cedar 14 ins. diam bears S. 14° E,
 135 lks. dist. marked J, 19 N, R,
 2 E, S, 22 B, J,

A cedar 12 ins. diam. bears S. 60°
 $30'$ W. 273 lks. dist. marked
 J, 19 N, R, 2 E, S, 21 B, J,

Land mountainous 90.41 Chs.

Dense brush 90.41 Chs.

Soil $4\frac{1}{2}$ rats.

June 13, 1903.

June 14: at 7^h a.m. l.m.t. I set off
 $23^{\circ}15'N.$ on the decl. arc; $34^{\circ}59'N.$
 on the lat. arc; & determined a
 true meridian with the solar at
 the cor. of secs. 32^{and} 33 on the S. bdy.
 Thence I run

$N.0^{\circ}02'N.$ bet. secs. 32^{and} 33.

Over mountainous land, thro.
 dense cedar brush, descending

6.50

Bottom of cañon, course S.W.
 Ascend abruptly.

40.00

Set a malpais $16 \times 10 \times 5$ ins. in a
 md. of stone for $\frac{1}{4}$ sec. cor. marked
 $\frac{1}{4}$ on W. face, from which
 A cedar 12 ins. diam. bears $S.31^{\circ}W.$
 06 lks. dist. marked $\frac{1}{4}$ S. 32 B.T.
 A cedar 10 ins. diam. bears $S.78^{\circ}E.$
 54 lks. dist. marked $\frac{1}{4}$ S. 33 B.T.

60.00

Top of ascent. Descend.

- 70.20 Bottom of gulch, course S. E.
Ascend.
- 80.00 Set a sandstone 16 x 12 x 7 ins. in
a md. of stone for cor. of sec.
28, 29, 32 + 33, marked with
1 notch on S. ⁹/₄ 4 notches on E,
edges, from which
a cedar 12 ins. diam. bears S. 36° W.
45 lks. dist. marked J, 19 N, R, 2 E, S,
32 B, J.
- A cedar 10 ins. diam. bears N. 82° W.
18 lks. dist. marked J, 19 N, R, 2 E,
S, 29 B, J.
- A cedar 10 in diam. bears N. 27° E.
33 lks. dist. marked J, 19 N, R, 2 E,
S, 28 B, J.
- A cedar 8 ins diam. bears S. 55° E,
59 lks. dist. marked J, 19 N, R, 2
E, S, 33 B, J.

see letter
Jan. 20/04

- Land mountainous 80.00 Chs.
 Dense cedars brush 80.00 Chs.
 Soil $\frac{1}{4}$ rats. *at this eq. June 14 1903 I set off $23^{\circ}15'N.$ on the decl. arc. and observed the sun on the meridian at noon: the resulting latitude is $35^{\circ}00'N.$*
 E. on a random line bet. secs. 28 + 33.
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 80.12 Intersect N. + S. line 7 lks. S. of cor. of secs. 27, 28, 33 + 34, thence I run $S89^{\circ}57'N.$ on a true line bet. secs. 28 + 33 over mountainous land, thro. dense brush.
 3.00 Edge of bluff of mesa ^{N.W. + S.E.} Descend precipitously.
 40.06 Set a sandstone $18 \times 12 \times 8$ ins. in a rnd. of stone for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N. face. Pits impracticable.
~~80.12~~ *80.00* ~~80.00~~ *80.00* *Set a rnd. of stone $\frac{1}{4}$ ft. base $1\frac{1}{2}$ ft. high N. of cor. The cor. of secs. 28, 29, 32 + 33.*

Land mountainous ^{80.12} 80.00 chs.
 Dense brush ^{80.12} 80.00
 Soil 4th rate.

N. 0° 02' W. but. sec. 28 + 29
 Over mountainous land ^{and}
 thro. dense brush.

30.00 Ascend abruptly.

40.00 Set a sandstone 14 x 18 x 5 ins. in a
 rnd. of stone for 1/4 sec. cor. marked
 1/4 on W. face, from which
 a cedar 12 ins. diam bears N. 76° W.
 42 lks, dist. marked 1/4 S. 29 B. 5.
 No other trees in dist. ^{Build a rnd.}
^{of stone 2 1/2 ft. base 1 1/2 ft. high w. 1/2" cov.}
 58.00 Top of rim of mesa, bears
 N. 60° W. + S. 60° E.

80.00 Set a malpais 20 x 10 x 8 ins. in
 a rnd. of stone for cor. of sec.

20, 21, 28 + 29 marked with
two notches on S. and 4 notches
on E. edges, from which
A cedar 8 ins. diam. bears N. 37° E.
40 lks. dist. marked J. 19 N. R. 2 E.
S. 21 B. J.

A cedar 6 ins. diam. bears N. 62° W.
81 lks. dist. marked J. 19 N. R. 2 E.
S. 20 B. J.

A cedar 14 ins. diam. bears S. 12° E.
74 lks. dist. marked J. 19 N. R. 2 E.
S. 28 B. J.

A cedar 6 ins. diam. bears S. 42° W.
132 lks. dist. marked J. 19 N. R.
2 E. S. 29 B. J.

Land mountainous 80.00 Chs.

Dense cedars brush 80.00 Chs.

Soil 4th rate.

N. $89^{\circ}57'E$. on a random line
bet. sees. 21 + 28.

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

80.15 Intersect N. + S. lines 16 lks.

N. of cor. of sees. 21, 22, 27 + 28.

Thence I run

N. $89^{\circ}56'W$. on a true line bet.
sees. 21 + 28

Over mountainous land ^{and}
through dense cedars brush.

32.00 Gulch, course S.E. ascend.

~~40.08~~ ^{0 1/2} Set a sandstone 18x10x8 ins. in a
mid. of stone for $\frac{1}{4}$ sec. cor.

marked $\frac{1}{4}$ on N. face from which

a cedar 8 ins. diam. bears S. $39^{\circ}E$,

33 lks. dist. marked $\frac{1}{4}$ S. 28 B. J.

*No other trees in sight. Builds a mid. of
stone p. 2 ft. base 1 1/2 ft. high. n. of cor.*
Top of point of mesa, trans N+S.

42.00 Edge of bluff of mesa, bears

N.W. and S.E. Descend.

Sto. unpracticable

80.15 The cor. of secs. 20, 21, 28 + 29.
 Land mountainous 80.15 chs.
 Dense cedars brush 80.15 chs.
 Soil 4th rate.

June 14, 1903.

June 15: at 7^h a.m. l.m.t. I set off
 $23^{\circ}18'N$, on the decl. arc; $35^{\circ}01'N$,
 on the lat. arc; + determine a
 true meridian with the solar
 at the cor. of secs. 20, 21, 28 + 29.
 Thence I run

$N. 0^{\circ}02' W.$ on a random line
 bet. secs. 20 + 21.

40.00

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

88.90

Intersect E. + W. line 1 blk. W. of
 cor. of secs. 16, 17, 20 + 21.

Thence I run

S. 0° 02' E. on a true line bet. sec.

20 + 21

Over mountainous land ^{and}
thro. dense brush.

32.00 Gulch, course N. 60° W.

48.90 Set a malpais 16 x 16 x 5 ins. in a
md. of stone for 1/4 sec. cor.

marked 1/4 on W. face, from which
a cedar 30 ins. diam. bears N. 38° E.

173 lks. dist. marked 1/4 S. 21

B.S. No other trees in dist.

88.90 *Spikes and. of stones 2 1/2 ft. base 1/2 ft. high*
Set. of cor. into multiple verticals
Shicor. of sec. 20, 21, 28 + 29.

Land mountainous 88.90 Chs.

Dense brush 88.90 Chs.

Soil 4th rate.

N. 0° 02' W. bet. sec. 16 and 17.
Over mountainous land and
thro. dense brush.

- 1.20 Gulch, course N.W. ascend.
- 25.00 Gulch, course S.W.
- 40.00 Sit a sandstone 18x10x6 ins. in
a md. of stone for $\frac{1}{4}$ sec. cor.
marked $\frac{1}{4}$ on W. face.
- 58.00 Pits impracticable. *Build a*
md. of stone $2\frac{1}{2}$ ft. base $\frac{1}{2}$ ft. high w/ edge of
Edge of bluff; bears N., E. + S.W.
Descend abruptly.
- 76.00 Bottom of cañon, course S.W.
Ascend abruptly.
- 80.00 Sit a lime stone 16x10x8 ins. in
a md. of stone for cor. of sec.
9+16 only, marked with 4
notches on S. *and 2 notches on N*
~~and 4 notches on E.~~
edges, from which
a cedar 6 ins. diam. bears N. 61° E.

Subs. T. 19 N. R. 2 E. BOOK 47

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55 lks. dist. marked T. 19 N. R.
2 E. S. 9 B. T.

No other trees in dist. *Build a md.*

Outside impracticable of stones 2 1/2 ft. base 1 1/2 ft. high W. of cor.
Land mountainous 80.00 chs.

Dense brush 80.00 chs.

Soil 4th rate.

E. on a true line bet. secs. 9 + 16
Over mts. land thro. dense ^{brush} "

3.00 Gulch course S. ascend
along N. side of gulch.

32.00 Descend abruptly to gulch

39.00 Bottom of gulch course S. 10° W,
for 250 ft. thence S. 85° W.

40.00 Set a malpais 19 x 9 x 7 ins. in
a md. of stones for 1/4 sec. cor.
marked 1/4 on N. face from which
a pine 20 ins. diam. bears S. 32° E.

70.00
√81.58

158 lks. dist. marked 1/4 S.
16 B.J. No other trees in dist.

*Piled a md. of stones 2 1/2 ft. base 1 1/2 ft. high on N of
Top of ascent, ^{Site unpracticable cor.}*

Intersect N. + S. line 195
0° 15' E.

lks. S. of cor. of secs. 10, 9, 15 + 16
the markings of which I change
to refer to secs. 10 + 15 only.

Set a malpais 16 x 10 x 6 ins. in
a md. of stones for closing cor.
to secs. 9 + 16, marked ^{C.C.} with
4 notches on S, and 3 notches
on E. ^{face} edge, from which

a pine 16 ins. diam. bears S.
55° W. 157 lks. dist. marked
J. 19 N, R. 2 E. S. 16 B. J.

No other trees in dist. *Pile in-
propiti cable*
Piled md. of stones 2 1/2 ft. base 1 1/2 ft. high on W of Cor.
Land mountainous 81.58 Chs.

Dense brush 81.58 Chs.
Soil 4th rate,

N. 0° 02' W. but, sec. 8^{and} 9.

Over mountainous land ^{and}
thro. dense cedars & brush, ^{ascending}

- 14.50 Top of bluff, bears N.E. + S.W.
- 40.00 Set a malpais 18x16x8 ins. in a
md. of stone for $\frac{1}{4}$ sec. cor. marked
 $\frac{1}{4}$ on W. face, from which
A cedar 5 ins. diam bears S. 38° W.
05 lks. dist. marked $\frac{1}{4}$ S. 8 B.T.,
A cedar 36 ins. diam bears N. 36° E.
75 lks. dist. marked $\frac{1}{4}$ S. 9 B.T.
- 80.00 Set a malpais 14x10x6 ins. in a
md. of stone for cor. of sec. 4 + 9
only, marked with 5 notches
on S. ^{1 notch on it} ~~4~~ notches on E. edges,
from which
A cedar 7 ins. diam. bears S. 78° 30' E.
287 lks. dist. marked T, 19 N. R.
2 E. S. 9 B.T. No other trees.

Build a md. of stone $2\frac{1}{2}$ ft. base $\frac{1}{2}$ ft. high
W. of cor. Pile impracticable.

Land mountainous 80.00 Chs.
 Dense cedars & brush 80.00 Chs.
 Soil 4th rate.

June 15, 1903.

June 16: at 7^h a.m. l.m.t. I set off
 $23^{\circ}20'N.$ on the decl. arc; $35^{\circ}04'N.$
 on the lat. arc; and determine a
 true meridian with the solar
 at the cor. of secs. 4 and 9.
 Thence I run

E. on a random line bet. secs. 4 + 9.

40.00

Set. temp. 1/4 sec. cor.

81.40

Intersect N. + S. lines 18 lks. S. of
 cor. of secs. 3, 4, 9 + 10, thence I run
 $S. 89^{\circ}52'W.$ on a true line bet. secs. 4 + 9
 Over mountainous land, thro.
 dense brush.

- 24.00 Gulch, course S. 10° E,
- 36.00 Gulch, course, S.W.
- 41.40 Sita malpais 14 x 12 x 10 ins. in a
 md. of stone for $\frac{1}{4}$ sec. cor. marked
 $\frac{1}{4}$ on N. face, from which
 Acedar 20 ins. diam. bears N. 35° W.
 188 lks. dist. marked $\frac{1}{4}$ S. 4 B. J.
- 81.40 *Prised md. of stone 2 ft. back of high n. of cor.
 Dist. from present site*
 The cor. of sec. 4 and 9.
 Land mountainous 81.40 chs.
 Dense brush 81.40 chs.
 Soil 4th rats.

52 Sub. T. 19 N. R. 2 E.
BOOK 299

N. 0° 02' W. on a true line bet.
secs. 4^{and} 5.

Over mountainous land, ^{and}
thru. dense brush.

40.00

Set a malpais 16x8x6 ins. in a
mid. of stone for $\frac{1}{4}$ sec. cor.
marked $\frac{1}{4}$ on W. face, from which
a juniper 12 ins. diam bears
N. 18° W. 223 lks. dist.

78.23

marked $\frac{1}{4}$ S. 5 B. T. *Bined g. mid. of*
No other trees in dist. stone 2 1/2 ft. base 1 1/2 ft. high
Old unpracticable
Intersect N. bdy. sp. 260 lks.

S. 89° 15'

W. of cor. of secs. 4, 5, 32 + 33, the
markings of which I change
to refer to secs. 32 + 33 only.

Set a malpais 20x10x6 ins. in a
mid. of stone for closing cor. to
secs. 4^{and} 5, marked C.C.
with 4 notches on E. + 2 notches
on W. ~~edges~~ ^{faces}, from which

Subs. T. 19 N. R. 2 E. 53.

BOOK

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A juniper 14 ins. diam. bears
S. 35° W. 60 lbs. dist. marked
T. 19 N. R. 2 E. S. 5 C. C. B. J.

No other trees in dist. Build a

into impracticable *many stones 2 1/2 ft. base 1 1/2 ft. high. W. of cov.*
Land mountainous 78.23 chs.

Dense brush 78.23 chs.

Soil 4th rate.

June 16, 1903.

June 17: at 7^h a.m. l.m.t. I set off
 23° 23' 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. 31 and 32 on the S. Bdy.
 Thence I run

N. 0° 03' W. bet. secs. 31 + 32.

Over mountainous land, and
 thro. dense brush, ascending.

40.00

Set a malpais 26 x 12 x 6 ins. in
 a md. of stone for 1/4 sec. cor.

marked 1/4 on W. face, from which
 a cedar 5 ins. diam. bears N. 73° W.
 59 lks. dist. marked 1/4 S. 31 B. I.

No other trees in distance.

44.00

Build and of stone 2 1/2 ft. base 1 1/4 ft. high, W. of cor.
 Top of ridge, bears N. W. + S. E.

46.70

Edge of bluff, bears N. W. + S. E.
 Descend abruptly.

56.00

Bottom of cañon, course S. E.

73.10
80.00

Ascend.

Top of bluff. bears N.W. + S.E.

Set a malpais 18x12x12 ins. in
a mid. of stone for cor. of secs. 29,
30, 31 and 32, marked with one
notch on S. and 5 notches on E. edges,
from which

A cedar 10 ins. diam. bears N. 16° E.
12 3/4 lks. dist. marked J. 19 N. R. 2
E. S. 29 B. J.

A piñon 6 ins. diam. bears N.
26° W. 9 1/4 lks. dist. marked J.
19 N. R. 2 E. S. 30 B. J.

A cedar 10 ins. diam. bears S. 76° 30'
E. 50 lks. dist. marked J. 19 N.
R. 2 E. S. 32 B. J.

A cedar 4 ins. diam. bears S. 63° W. 8 1/2
lks. dist. marked J. 19 N. R. 2 E. S. 31 B. J.

Land mountains 80.00 Chs.

Dense cedars + brush 80.00 Chs.

Soil 4th rate

- E. on a random line bet. secs. 29 + 32
- 40.00 Set temp. $\frac{1}{4}$ sec. cor.
- 79.95 Intersect N. & S. lines at cor. of
secs. 28, 29, 32 + 33, thence I run
W. on a true line bet. secs. 29 + 32
Over mountainous land, ^{and}
thro. dense cedar brush
- 35.00 Gulch, course S.E.
- 39.97 $\frac{1}{2}$ Set a malpais 18 X 14 X 8 ins. in a
mid. of stone for $\frac{1}{4}$ sec. cor.
marked $\frac{1}{4}$ on N. face, from which
cedar 6 ins. diam. bears N,
 27° W. 15 lks. dist. marked
 $\frac{1}{4}$ S. 29 B.T., No other tree in dist. *Build*
circumferential *and* *of stone* $2\frac{1}{2}$ ft. *base* $\frac{1}{2}$ ft. *high* *N. of cor* *into* *my* *map*
- 60.00 Foot of steep ridge, ascend
- 64.00 Top of ridge, bears $N 10^{\circ} W$ + S.E.
- 79.95 The cor. of secs. 29, 30, 31 + 32
Land mountainous 79.95 ch.
Dense cedar brush 79.95
Soil, 4 rate

- 30 + 31
- 40.00 W. on a random line bet. secs. $\frac{1}{4}$ sec. cor.
- 66.05 Set temp $\frac{1}{4}$ sec. cor.
- Intersect bdy. Sp. 1 lk. N. of
 cor. of secs. 25, 30, 31 + 36, thence ^{run}
 E. on a true line bet. secs 30 + 31
- Over mountainous land,
 thro. dense cedars & brush.
 Ascending abruptly.
- 3.00 Top of bluff of mesa, bears
 N. 10° E. + S. 10° W.
- 14.00 Edge of bluff, bears N.W. + S.E.
 Descend.
- 25.00 Bottom of cañon, course S.E.,
 ascend.
- 26.05 Set a malpais 18X12X8 ins. in
 a md. of stone for $\frac{1}{4}$ sec. cor.
 marked $\frac{1}{4}$ on N. face, from which
 a cedar 12 ins. diam. bears South
 06 lks. dist. marked $\frac{1}{4}$ S, 31 B.S.
 No other trees in dist.

- (Beds and of stone $2\frac{1}{2}$ ft. base $1\frac{1}{2}$ ft. high E. N. of
 cor. Pits in practice
- 28.70 Top of bluff, bears N.W. + S.E.
 48.50 Edge of bluff, bears N.W. + S.E.
 Descend abruptly.
 54.00 Bottom of cañon, course S.E.
 Ascend abruptly.
 60.00 Top of bluff, bears N.W. + S.E.
 66.05 The cor. of secs. 29, 30, 31 + 32
 Land mountainous 66.05 chs.
 Dense brush 66.05 chs.
 Soil $4\frac{1}{2}$ rats

June 17, 1903