

SUBDIVISIONS.
T. 20, N., R. 4, E.

5k 2.

No 349

BOOK 349

4-671

349

FIELD NOTES
GENERAL LAND OFFICE.

No 349

56

Copied by Comt 6/13/04

Compared by Gmls & Comt 6/24/04

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Indexed Book 348.

Township 20N R. 4E

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Subdivisions of Tp. 20 N. R. 4 E.

April 26th: at 7 A.M., l.m.t., I set off $13^{\circ}31' N.$ on the decl. arc; $35^{\circ}05'$ N. on the lat. arc; and determine a true meridian with the solar, at the cor. of secs. 20, 21, 28 and 29, which is a decayed stake, and which I reestablish as follows

Set a malpais $18 \times 10 \times 5$ ins. in a md. of stone for cor. of secs. 20, 21, 28 and 29. marked with 4 notches on E. and 2 notches on S. edges,

From which

A pine 36 ins. diam. bears $S. 65^{\circ}30' N. 144$ lks. dist. marked T. 20 N. R. 4 E. S. 29 B. T.

An oak 10 ins. diam. bears $N. 81^{\circ}30' E. 10$ lks. dist. marked T. 20 N. R. 4 E. S. 21 B. T.

Subdivisions of

A pine 14 ins. diam. bears
S. 13° E. 37 lks. dist. marked
T20 N. R. 4 E. S. 28 B. T.

A pine 72 ins. diam. bears
N. 48° W. 64 lks. dist. marked
T20 N. R. 4 E. S. 20 B. T.

Fence I run.

E. lat. sec. 21 and 28.

Over rolling mesa.

Through dense pines.

40.04

The $\frac{1}{4}$ sec. cor. which is
a decayed stake with
witness trees grown over.
bears S. 10 lks. which makes
the bearing and length
of this $\frac{1}{2}$ mile S. $89^{\circ}51'$ E.

40.04 chs.

I reestablish this cor. as
follows.

Tp. 20 N. R. 4 E.

Set a malpais 16 x 10 x 6 ins.
in a md. of stone for $\frac{1}{4}$ sec.
cor. marked $\frac{1}{4}$ on N. face
from which

A pine 14 ins. diam. bears
N. 45° W. 72 lks. dist. marked
 $\frac{1}{4}$ S. 21 B. T.

A pine 20 ins. diam. bears
S. 56° E. 24 lks. dist. marked
 $\frac{1}{4}$ S. 28 B. T.

Thence I run E. on a
true line from the $\frac{1}{4}$ sec.
cor.

Trough across pines

34.01 Intersect N. and S. line
72 lks. N. 0° ~~22~~ ²² W. of cor. of
secs. 22 and 27.

Set a malpais 18 x 16 x 12 ins
in a md. of stone for ^{c.c.} cor. of

Subdivisions of

secs. 21 and 28. marked
with 3 notches on E. and
2 notches on S. edges. C.C. on N.
from which.

A juniper 8 ins. diam. bears
N. 85° W. 40 lks. dist. marked
T. 20 N. R. 4 E. S. 27 C. C. B. T.

A pine 24 ins. diam. bears
S. 72° W. 83 lks. dist. marked
T. 20 N. R. 4 E. S. 28 C. C. B. T.

Land rolling mesa ^{74.05} 74.01 chs.

Dense pines ^{74.03} 74.01 chs.

Soil rocky, 4 th/₁₀₀ rate

Sp. 20 N. R. 4 E.

At the length of the E. side
of sec. 28 appears to be 82.05 chs.

I repair to the $\frac{1}{4}$ sec. cor. bet.
as described by the Surveyor General
secs. 28 and 33, and run
N. bet. 28 and 33.

Over rolling mesa

Through dense pines.

39.90 The cor. of secs. 28, 29, 32nd and 33,

marked and witnessed as
described by the Surveyor
General. Bears N. 161 lks.

which makes the bearing
and length of this $\frac{1}{2}$ mile
N. $87^{\circ}41'$ N. 39.93 chs.

Land rolling mesa 39.93 chs.

Dense pines 39.93 chs.

Soil rocky, 4th rate.

Subdivisions of

N. bet. secs. 28 and 29.

40.30 The $\frac{1}{4}$ sec. cor. marked
 and witnessed as described
 by the Surveyor General.
 bears E. 2 lks. which makes
 the bearing and length of
 this $\frac{1}{2}$ mile $N. 0^{\circ} 02' E.$, 40.30 chs.
 Fence 1 run

N.

40.01 The cor. of secs. 20, 21, 28 and 29 ^{previously described} bears
 N. 5 lks. which makes the
 bearing and length of this $\frac{1}{2}$
 mile $N. 0^{\circ} 04' N.$ 40.01 chs.

Land, rolling mesa 80.31 chs.

Dense pines 80.31 chs.

Soil rocky, 4th rate.April 26th 1904.

Tp. 20 N. R. 4 E.

April 27: At 7^h a.m., l.m.t., I set off $13^{\circ}50' N.$ on the incl. arc; $35^{\circ}05'$ N. on the lat. arc; and determine a true meridian with the solar, at the cor. of secs. 20, 21, 28 and 29.

Thence I run

N. bet. secs. 20 and 21.

40.10 The $\frac{1}{4}$ sec. cor. which is a cross on a large boulder with two witness trees

as described by the Surveyor General bears N. 154 Ecs, which makes the bearing and length of this $\frac{1}{4}$ mile, N. $2^{\circ}12'$ N. 40.13 chs.

Thence I run

N.

40.35 The cor of secs 16, 17, 20 and 21, marked and

66.

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Subdivisions of

witnessed as described
by the Surveyor General
bars E. 206 lks. which
makes the bearing and
length of this $\frac{1}{2}$ mile
N. $2^{\circ} 56'$ E. 40.40^v chs.

Land rolling mesa. ^{80.53} 80.50 chs.

Decid. Pines ^{80.52} 80.50 chs.

Soil rocky, 4th rate.

Tp. 20 N. R. 4 E.

From the cor. of secs. 22 and 27 I run.

✓ N. 0° 02' N. bet. secs. 21 and 22.

Over mountainous lands

Through dense brush.

3.10 Edge of bluff of mesa bears N. W. and S. E. Descent abruptly over sharp points.

40.00 Bottom of deep narrow gulch Point for 1/4 sec cor. in unsafe place, Ascend.

41.56 On limestone ledge.

Set a limestone 18 x 12 x 6 ins. in a md. of stone for N. C.

✓ to 1/4 sec. cor. marked N. C. 1/4 on N. face, from which a cedar, 7 ins. diam. bears

N. 6° N. 18 lbs. dist. marked

1/4 S. 21 B. T. W. C.

W. C. is 1.56 ch. n of 1/4 cor. point sec. 22 and 84 lbs. n of cor. pt. for sec 21

68

Subdivisions of

No other trees in distance

Build a md. of stone $2\frac{1}{2}$
ft. base and $1\frac{1}{2}$ ft. high
N. of cor.

Pits impracticable

Descend abruptly.

66.50

Bottom of Sycamore cañon
1800 ft. deep, Course S. E.

Ascend abruptly.

80.00

Set a limestone $14 \times 12 \times 7$ in

in a md. of stone for cor. of

20 N. on N. E. $\frac{1}{4}$ 1/4 E on S. E. face.

secs. 15, 16, 21 and 22, marked,

with 3 notches on E. and S.

edges. Build a md. of stone
3 ft. base $1\frac{1}{2}$ ft high. N. of cor.

Pits impracticable

Land mountainous 80.00 chs.

Dense brush 80.00 chs.

Soil rocky, 4th rate.

Apr. 27th 1904.

Sp. 20 N. P. 4. E.

April 28th: at 7^h a.m., l.m.t.,
I set off $14^{\circ}09' N.$ on the decl. arc;
 $35^{\circ}06' N.$ on the lat. arc; and determine
a true meridian with the solar
at the cor. of secs. 15, 16, 21 and 22.

Thence I run.

E. on a random line bet. secs.
15 and 22.

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

79.90 Intersect N. and S. line at
N. E. cor. of sec. 22.

Thence I run.

N. on a true line bet. secs.
15 and 22.

Over mountainous lands.

Through dense brush.

Ascend steep slope of cañon
diagonally.

34.60 On rock ledge. As it is

Subdivisions of

evident that point for $\frac{1}{4}$ sec. cor. will come on slope so steep as to make it impossible to maintain, &

Set a limestone $16 \times 12 \times 6$ ins in a md. of stone for N. C. to $\frac{1}{4}$ sec. cor., marked N. C. $\frac{1}{4}$ on N. face, from which a pylon 10 ins. diam. bears N. 65° W. 55 lbs. dist. marked N. C. $\frac{1}{4}$ S. 15 B. T.

No other trees in distance

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

Pits impracticable

39.95

Point for $\frac{1}{4}$ sec. cor. to sec. 22,

0

Ascend abruptly.

52.00

Top of point of bluff on lower bench of mesa.

W. C. is 5.12 chs. E. of $\frac{1}{4}$ cor. point for sec. 22
and 69 lbs. E. of $\frac{1}{4}$ cor. point for sec. 15-

Sp. 20 N. R. 4 E.

bears N. E. and N. W.

60.00 Edge of bluff bears N. W.
Descend abruptly.

79.90 The cor. of secs. 15, 16, 21
and 22.

Land mountainous 79.90 chs.

Dense brush 79.90 chs.

Soil rocky - 4th rate.

Subdivisions of

N. 0° 02' N. bet. secs. 15th and 16.

Over mountainous lands.

Ascending abruptly, through dense brush.

9.00 Top of lower bench of mesa. Bears N. W. and S. E.

Hence through dense pines.

28.10 Top of mesa bears N. W. and S. E.

40.00 Set a malpais 16 x 10 x 7 ins.

in a md. of stone for $\frac{1}{4}$ sec. cor. ^{to see 16 only} marked $\frac{1}{4}$ on N. face from which.

A pine 4 ins. diam. bears S. 18° E. 46 lks. dist. marked $\frac{1}{4}$ S. 15 B. J.

A pine 4 ins. diam. bears S. 51° N. 115 lks. dist. marked $\frac{1}{4}$ S. 16 B. J.

80.00 Set a malpais 17 x 14 x 8 ins

Tp. 20 N. R. 4 E.

in a md. of stone for C.C. of
secs 15 and 16. marked with
3 notches on E. and 4 notches
on S. edge with C.C. on S. edge
from which

A pine 26 ins. diam. bears
S. $35^{\circ}30'$ N. 160 lks. dist. marked
T. 20 N. R. 4 E. S. 16, C.C. B. T.

A pine 12 ins. diam. bears
S. 5° E. 141 lks. dist. marked
T. 20 N. R. 4 E. S. 15 C.C. B. T.

Hence I run
East.

4.31 Intersect N. and S. line
143 lks. N. $0^{\circ}27'$ N. of old
corn of secs. 9, 10, 15 and 16, the
markings of which I change
to refer to sec. 10 only.

Subdivisions of

Set a malpais $16 \times 14 \times 8$ ins
in a md. of stone for C. C. of
secs 9 and 15. marked with
3 notches on E and 4 notches
on S edge and C. C. on N. face.
From which.

A pine 28 ins. diam. bears
~~N. $72^{\circ} 45' W$~~
N. $74^{\circ} W$. 121 lks. dist. marked.

T. 20 N. R. 4 E. S. 9 C. C. B. T.

No other trees in distance

Pits impracticable.

Build a md. of stone $2\frac{1}{2}$ ft.

base $1\frac{1}{2}$ ft high N. of cor.

Land mountainous 80.00 cks.

Dense brush 30. cks.

Scattering pines 50.00 cks.

Soil rocky, 4th rate.

April 28th 1904

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Tp. 20 N. R. 4 E.

April 29: at 7^h a.m., l.m.t., I set off $14^{\circ}28' N.$ on the decl. arc; $35^{\circ}06' N.$ on the lat. arc; and determine a true meridian with the solar, at the cor. of secs. 15, 16, 21, and 22.

Thence I run.

$N.$ on a true line bet sec. 16 and 21.

Over mountainous lands.

Through dense brush.

As it is impossible to chain $N.$ on this line I place a flag on line on the bluff on $N.$ side of cañon, from which I measure a base $S. 10.00$ chs., at which point I place a flag, and with my transit at the cor. of

secs. 15, 16, 21, and 22, I measure the angle between the flags, which I find to be $8^{\circ}07'$; which is the greatest angle it is possible to obtain. Hence

$$\text{Co. tan. } 8^{\circ}07' \times 10 = \text{dist. to flag.}$$

$$\text{Co. tan. } 8^{\circ}07' = 7.01174 \times 10 = 70.12 \text{ chs.}$$

70.12 Edge of bluff bears $N. 80^{\circ} W$ and $S. 60^{\circ} E$.

Hence I continue N .

3.51 I intersect N . and S . line 127 lbs. $S. 2^{\circ}56' W$. of the cor. of secs. 16, 17, 20, and 21. The markings of which I change to refer to sec. 20 only.

JK Set a malpais 18x16x8 ins.
 in a md. of stone for C.C.
 of secs. 16 and 21, marked
 with 4 notches on E. and
 3 notches on S. edge, and C.C.
 on E. edge, from which
 a pine 16 ins. diam. bears
 N. 15° E. 61 lbs. dist. marked
 T. 20 N. R. 4 E. S. 16 C.C. B. T.
 a juniper 8 ins. diam. bears
 S. 24° E. 146 lbs. dist. marked.
 T. 20 N. R. 4 E. S. 21 C.C. B. T.
 Land mountainous 73.63 chs.
 Dense brush 73.63 chs.
 Soil rocky, 4th rate.

Subdivisions of

- N. on a true line along
 N. by. sec. 16. from cor. of aces. ¹⁶ 15+
- 23.80 Edge of bluff 40 ft. high, bears
 N. 15° E and S. 15° W. Descend
- 24.10 Foot of bluff.
- 40.00 Set a malpais 18 x 12 x 6 ins
 in a md. of stone for 1/4 sec.
 cor. ^{to see 16 only} marked 1/4 on N. face
 from which
 A juniper 60 ins. diam. bears
 N. 35° 30' W. 118 lbs. dist. marked
 1/4 S. 9. B. T.
- An oak 5 ins. diam. bears
 S. 74° E. 113 lbs. dist. marked
 1/4 S. 16 B. T.
- 56.00 Gulch, course S. 10° E.
 Ascend.
- 73.00 Edge of bluff of mesa
 bears N. and S. Descend.

Tp. 20 N. R. 4 E.

80.00 Set a malpais 24 x 14 x 10 ins
in a md. of stone for cor. of
secs. 9 and 16. marked with
4 notches on E and S edges.
from which

A pine 14 ins. diam. bears
N. 59° 30' E. 38 lks. dist. marked
T. 20 N. R. 4 E. S. 9 B. T.

A pine 30 ins. diam. bears
S. 77° E. 180 lks. dist. marked.
T. 20 N. R. 4 E. S. 16 B. T.

Land mountainous 80.00 chs.

Dense brush 80.00 chs

Soil rocky, 4th rate.

April 29th, 1904.

Subdivisions of

Apr. 30th: at 7^h a.m., l.m.t. I
 set off $14^{\circ}47'$ N. on the decl. arc;
 $35^{\circ}07'$ N. on the lat. arc; and determine
 a true meridian with the solar
 at the cor. of secs. 9 and 16.

Thence I run.

$S. 0^{\circ}2'$ E. on a true line
 bet. secs. 16 and 17.

Over mountainous land.

Through denser brush.

Descending along steep slope
 of mesa.

17.00 Descend more abruptly.

25.50 Top of point of spur. As
 the point for $\frac{1}{4}$ sec. cor.
 will come on steep slope
 in unsafe place I

Set a limestone $20 \times 14 \times 7$ ins.
 in a md. of stone for $\frac{1}{4}$ sec.
 W.C. to

Tp. 20 N. R. 4 E.

cor. marked W.C. $\frac{1}{4}$ on N. face, from which.

A pinion 28 ins. diam bears N. 11° W. 75 lks. dist. marked W.C. $\frac{1}{4}$ S. 17° B. T.

No other trees in distance

Build a md. of stone $2\frac{1}{2}$ ft. base and $1\frac{1}{2}$ ft. high N. of cor.

Pits impracticable.

40.00 Point for $\frac{1}{4}$ sec. cor. on slope too steep to maintain same.

43.50 Bottom of Sycamore cañon. course S. 35° E.

Ascend precipitously

71.50 Top of bluff of mesa, bears N. W. and S. E.

78.61 Intersect E and N. line

OK. 647 links N. of the ^{N. E.} cor. of sec. 20.

W.C. is 14.50 chs. N. of $\frac{1}{4}$ cor. point for sec. 16 and 12.27 chs. N. of $\frac{1}{4}$ cor. point for sec. 17

Subdivisions of

Set a malpais 16x10x6 ins.
 in a md. of stone for C. C.
 of secs. 16 and 17. marked
 with 4 notches on E. and
 3 notches on S. edges and
 C. C. on N. face. from which
 An oak 10 ins diam. bears
 N. 80° W. 86 lbs. dist. marked
 T. 20 N. R. 4 E. S. 17 C. C. B. T.
 A pine 12 ins diam. bears
 N. 86° 30' E. 76 lbs. dist. marked.
 T. 20 N. R. 4 E. S. 16 C. C. B. T.
 Land mountainous 78.61 chs.
 Dense brush. 78.61 chs.
 Soil rocky, 4th rate.
 April 30th 1904.

Sp. 20 N. R. 4 E.

May 1st: at 7^h a.m., l.m.t., I set off $15^{\circ}04'30''$ N. on the decl. arc; $35^{\circ}07'$ N. on the lat. arc; and determine a true meridian with the solar at the cor. of secs. 10, 11, 14 and 15. Thence I run,

N. bet. secs. 10 and 15.

Through dense pines and oak brush.

40.00 The $\frac{1}{4}$ sec. cor., which is a decayed stake with one as described by the Surveyor General ^{General} witness tree, which makes the bearing and length of this $\frac{1}{2}$ mile N., 40.00 chs.

I rebuild this cor. by setting a malpais $18 \times 14 \times 10$ ins in a md. of stone for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N. face. and build a md. of stone

Subdivisions of

2 1/2 ft. base, 1 1/2 ft. high N.

of cor. No other trees in limits

Pits impracticable.

I continue N. from 1/4 sec. cor.

80.00 The old cor. of secs. 9, 10
as described by the Surveyor General
15 and 16. The markings

of which I change to refer
to sec. 10 only, bears S. 38 W.

which makes the bearing
and length of this 1/2 mile

✓ S. 89° 27' N. 40.00 chs.

Land rolling mesa. 80.00 chs.

Dense pines 80.00 chs.

Dense brush 30.00 chs.

Soil rocky. 4th rate

Tp. 20 N. R. 4 E.

From the cor. of secs. 7, 8, 17
and 18 I run.

E. bet. secs. 8 and 17.

32.00 Edge of bluff bears Sand
N. W. Descend.

39.05 The $\frac{1}{4}$ sec. cor., marked
and witnessed as described
by the Surveyor General.
Bears N. 98 lks. which
makes the bearing and
length of this $\frac{1}{2}$ mile
N. $88^{\circ}34'$ E. 39.06 chs. ✓

Thence I run E. on a
true line. Descending abruptly.

22.00 Bottom of Sycamore cañon.
Course S. Ascend abruptly.

34.25 Intersect N. and S. line.
226 lks. N. of cor. of secs 9
and 16.

Subdivisions of

Set a malpais. $26 \times 12 \times 10$ ins
in a md. of stone for. C. C. to
secs. 8 and 17. marked with
4 notches on E and S edges
and C.C. on N. face.

from which.

An oak 7 ins diam. bears

S. 27° N. 75 lks. dist. marked

T. 20 N. R. 4 E. S. 17 C.C. B. T.

A pine 9 ins. diam. bears

N. $44^\circ 30'$ N. 163 lks. dist. marked

T. 20 N. R. 4 E. S. 8 C.C. B. T.

Land mountainous 73.31 chs.

Dense pines 40.00 chs.

Dense brush 33.00 chs.

Soil rocky. 4th rate.

May 1st 1904.

Tp. 20 N. R. 4 E.

May 2^d; at 7^h a.m., l.m.t., I
set off $15^{\circ}23'N$ on the decl. arc;
 $35^{\circ}07'N$ on the lat. arc. and deter-
mine a true meridian with the
solar. at the c.c. of secs. 8 and 17.

Thence I run.

$N. 0^{\circ}02' N$. bet. secs 8 and 9.

Over mountainous land.

Through dense brush.

9.00 Top of bluff, lower bench
of mesa. bears $N. 7^{\circ}$ and $S. E.$

33.85 Top of bluff of mesa. bears
 $N. 70^{\circ} N$. and $S. 70^{\circ} E$.

40.00 Set a malpais $17 \times 14 \times 6$ ins
in a md. of stone for $\frac{1}{4}$
sec. cor, ^{to sec. 8 only.} marked $\frac{1}{4}$ on N . face
from which
a pipe 26 ins. diam. bears
 $N. 45^{\circ} N$. 23 lks. dist. marked

Subdivisions of

 $\frac{1}{4}$ S. 8 B. T.

An oak. 9 mi. diam. bears.

~~N. 48° E~~~~N. 35° E~~ 4 lks. dist. marked. $\frac{1}{4}$ S. 9 B. T.74.50 Edge of bluff of cañon, 1000 ft.
deep. Bears S. 70° W. and S. E.

Descends precipitously

79.00 Bottom of cañon. Course N.

80.00 Set a malpais 20x10x6 ins.

R in a md. of stone for ^{N.E.} cor. of
 Sec. 8. marked with 4 notches
 on E. and 5 notches on S. edges
 and build a md. of stone 3 ft.
 base, 2 ft. high S.W. of cor.

Pits impracticable

Land mountainous 80.00 chs.

Dense brush 80.00 chs

Scattering pines. 40.00 chs

Soil rocky. 4th rate.

Sp. 20 N. R. 4 E.

N. on a ^{true} ~~random~~ line bet.
secs 5 and 8.

In bottom of cañon.

12.00 Ascend out of cañon.

Cañon turns S. W.

28.00 Top of point of slope.

40.00 Set temp 1/4 sec. cor.

41.80 Top of bluff of mesa, bears
N. E. and S. W.

73.40 Intersect N. and S. line 294
lks. N. of cor. of secs. 5, 6, 7
and 8. which is a decayed
stake with 4 pine witness
trees, which I rebuilt.

Set a malpais 18 x 14 x 5 ins. in
a md. of stone for cor. of secs.
6 and 7. marked with 5 notches
on E. and S. edges.

Change the markings of

Subdivisions of
the witness trees to refer to
secs. 6 and 7 only.

Set a malpais 18 x 10 x 7 ins.
in a md. of stone for C. C.
to secs. 5 and 8. marked
with 5 notches on E. and
S. edges, and C. C. on E. edge
from which.

A pine 12 ins. diam. bears
N. 43° E. 211 lks. dist. marked.

T. 20 N. R. 4 E. S. 5 C. C. B. T.

A pine 24 ins. diam. bears.

~~S. 18° E.~~ ^{S. 12° 15' E.} 158 lks. dist. marked

T. 20 N. R. 4 E. S. 8 C. C. B. T.

Thence I run.

E. on a ~~true~~ line bet. secs.
5 and 8.

40.00 Set a malpais 16 x 12 x 6 ins.

in a md. of stone for $\frac{1}{4}$ sec.

Tp. 20 N. R. 4 E.

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

a pine 14 ins. diam. bears
~~S. 58° 15' E.~~
S. 30° E. 65 lks. dist. marked
 $\frac{1}{4}$ S. 8 B. T.

a pine 26 ins. diam. bears
~~N. 48° 45' W.~~
N. 55° W. 78 lks. dist. marked
 $\frac{1}{4}$ S. 5 B. T.

73.40 The N. E. cor. of sec. 8.
Land mountainous 73.40 cks.
Dense brush 42.00 cks.
Dense pines 31.40 cks.
Soil rocky, 4th rate.
May 2^d, 1904.

Subdivisions of

May 3^d: at 7^h a.m., l.m.t., I set off $15^{\circ}40' N.$ on the decl. arc; $35^{\circ}07' N.$ on the lat. arc. and determine a true meridian with the solar at the cor. of secs. 7, 8, 17^{and} 18 *previously described*. Hence I run.

N. bet. secs. 7 and 8.

30.67. The witness cor. to the $\frac{1}{4}$ sec. ^{which I destroy} cor. Edge of bluff of mesa bears $N. 60^{\circ} W.$ and $S. 60^{\circ} E.$

Descend abruptly.

40.00 Malpais in place $5 \times 5 \times 4$ ft. ^{above ground} on which I mark a cross at exact cor. point. with $\frac{1}{4}$ on N. side, and build a mound of stone 3 ft. base 2 ft. high. N. of cor. Spruce 30 ins diam. bears $S. 85^{\circ} E.$ 75 lks. dist. marked.

Twp. 20 N. R. 4 E.

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 $\frac{1}{4}$ S. & B. T.No other trees in distance
pits unpracticable.From this cor. I can see a
flag placed at the cor. of
secs. 6 and 7. which bears
N. $0^{\circ} 29'$ W. and to which I run

6.00 Bottom of cañon. course

S. 70° E. Ascend abruptly.35.90 Top of bluff of mesa bears
N. and S. E.

37.98

~~78.78~~The cor. of secs. 6 and 7
as described by the Surv. Gen.
and mountainous 48.18 chs

Dense pines 30.00 Chs.

Dense brush. 48.18 Chs.

Soil rocky. 4th gradeMay 3^d, 1904.

Subdivisions of

May 4th at 7^h a.m. l.m.t.

I set off $15^{\circ}58'N$ on the decl. arc;
 $35^{\circ}07'N$ on the lat. arc, and
 determine a true meridian
 with the solar at the S. N. cor. of
 Dec. 10. ^{Previously described} Hence I run.

N. bet. secs. 9 and 10.

Through dense pines and
 oak brush.

40.00 The $\frac{1}{4}$ sec. cor., a decayed
 stake, bears N. 31 lks. which
 makes the bearing and
 length of this $\frac{1}{2}$ mile
 N. $6^{\circ}27'N$. 40.00 chs.

I reestablish this cor. as follows
 Set a malpais $24 \times 16 \times 7$ ins.
 in a md. of stone for $\frac{1}{4}$ sec.
 cor. marked $\frac{1}{4}$ on N. face.
 from which.

Tp. 20 N. R. 4 E.

95

A pine 6 ins. diam. bears
 $N. 29^{\circ} W. 45$ lks. dist. marked
 $\frac{1}{4} S. 9 B. T.$

A pine 30 ins. diam. bears
 $S 17^{\circ} E. 160$ lks. dist. marked
 $\frac{1}{4} S. 10 B. T.$

Thence I run.

North.

40.00

The cor. of secs. 3, 4, 9 and 10
 a decayed stake in a md.
 of stone, bears $N. 32$ lks,
 which makes the bearing
 and length of this $\frac{1}{2}$ mile
 $N. 0^{\circ} 27' W. 40.00$ chs.

I reestablish as follows

Set a malpais $20 \times 10 \times 7$ ins
 in a md. of stone for cor. of
 secs. 3, 4, 9 and 10, marked
 with 3 notches on E. and

Subdivisions of

5 notches on S. edge.

Build a md. of stone
2 1/2 ft. base 1 1/2 ft. high
N. of cor.

Pits impracticable.

Land rolling mesa 80.00 chs.

Dense pines and oaks 80.00 chs.

Soil rocky, 4th rate.

Thence I run from this cor.
N. bet. secs. 3 ⁴/₄ 4. Thru open ground.
1/4 sec. cor. - a post in md. of slope as
described by Surveyor General, bears E. ¹⁴¹/₁₃ lks
which makes the bearing length of this 1/2 mile
N. ^{10° 39'} ~~24~~ ^{40.65} ' E. ~~44.06~~ chs. Thence I run
N. from the 1/4 sec. cor.

~~20.64~~
~~40.06~~

17.94
~~58.00~~
31.94
~~72.00~~
40.55
~~140.50~~

Entire pine timber.

Road, bears N. W. + S. E.

The closing cor. of secs. 3 ⁴/₄ 4 - a post in
a md. of stone with 2 witness trees as
described by the Surveyor General,
bears E. ⁷⁸/₁₃ lks, which makes the
bearing length of this 1/2 mile N. ^{8° 34'} ~~11~~ ' E.

~~40.55~~
~~40.50~~ chs. THIS COR IS A STAKE SO BADLY ROTTED AS TO
MAKE THE MARKS ILLEGIBLE AND HAVING TWO
PINE WITNESS TREES. I REBUILD THIS COR. AS FOLLOWS
SET A MALAPA 18 X 10 X 8 INS. 12 INS. IN THE GROUND
FOR CLOSING COR TO SEC 34 MARKED C.C. CONS WITH 3 NOTCHES ON
E. AND W. FACE
LAND ROLLING MESA 80.19 CHS
DENSE PINES 30.00 CHS
SOIL ROCKY 4TH RATE

Tp. 20 N. R. 4 E.

N. 1/4 sec. 4 and 9.

Over rolling mesa.

Through dense pines.

40.00 The 1/4 sec. cor. marked and
witnessed as described by
the Surveyor General,
bars S. 6 lks., which makes
the bearing and length
of this 1/2 mile S. 89° 55' N.
40.00 chs.

Thence I run.

N. on a true line from the
1/4 sec. cor.

10.30 Edge of bluff of canon
bars N. 10° E and S. 10° N.
At 3 chs. S. turns S. 80° N.
Descend abruptly.

43.64 Intersect N. and S. line
BR 363 lks S. of N. E. cor. of

Subdivisions of

Sec. 8.

Set a limestone $18 \times 12 \times 5$ ins
in a md. of stone for C.C.
of secs. 9 and 10, marked
with 4 notches on E. and
5 notches on S. edges. and
C.C. on E.

Build a md. of stone $2\frac{1}{2}$ ft.
base and $1\frac{1}{2}$ ft. high N. of cor.

Land mountans 83.64 chs.

Dense pines 50.00 chs.

Dense brush 33.64 chs.

Soil rocky, 4th rate.

Sp. 20 N. R. 4 E.

From the $\frac{1}{4}$ sec. cor. bet.
 sec. 4 and 5, which is a
 decayed stake with witness
 tree fallen, and which I
 reestablish as follows:

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

A pine 18 ins. diam. bears
 N. 63° E. 203 lks. dist. marked
 $\frac{1}{4}$ S. 4 B. T.

A pine 12 ins. diam. bears
 N. 52° W. 286 lks. dist. marked
 $\frac{1}{4}$ S. 5 B. T.

Run
^{000V}
 on a true line bet sec.
 4 and 5

Through dense pines

Subdivisions of

30.00

Edge of vertical bluff of cañon. 1000 ft. deep.

As it is impossible to measure further S. on this line, I return to a point 29.90 chs. from $\frac{1}{4}$ sec cor.

Set a malpais 26 x 14 x 10 ins in a md. of stone for N. C. to C. C. bet. secs. 4 and 5.

marked with 4 notches on E. and 5 notches on S. edges and N. C. C. C. on N. face.

from which

A pine 12 ins diam. bears

~~N. $75^{\circ} 30' E$~~ 12 lks. dist. marked.

N. C. T. 20 N. R. 4 E. S. 4 C. C. B. T.

A pine 10 ins diam. bears

~~N. $23^{\circ} 45' W$~~ 146 lks. dist. marked

N. C. T. 20 N. R. 4 E. S. 5 C. C. B. T.

Tp. 20 N. R. 4 E.

Land rolling mesa 30.00 chs.

Dense pines 30.00 chs.

Soil rocky, 4th rate.

May 4th 1904.

From cor. to secs 28, 29, 32 + 33 I run

South bet. secs. 32^{and} 33.

Thru. dense pines to oak brush.

40.02

The $\frac{1}{4}$ sec. cor. as described by the Surveyor General, bears N. 68 lks. which make the bearing ^{and} length of this $\frac{1}{2}$ mile S. 0° 58' N. 40.02 chs.; thence from the $\frac{1}{4}$ sec. cor. I run S.

40.06

The cor. of secs. 4, 5, 32 + 33, as described by the Surveyor General bears N. 59 lks., which makes the bearing ^{and} length of this $\frac{1}{2}$ mile S. 0° 51' N. 40.06 chs.

(see page 104 for bal.)

Subdivisions of General Description.

Through this township the almost impassable canon of the Sycamore extends from N. W. to S. E., with its many branches, almost as difficult of passage.

On the mesa there is generally a good growth of pine, together with a large quantity of scrub oak, and juniper and oak brush.

In the cañons there is some spruce, sycamore, cottonwood, ash, wild cherry, walnut and aspen.

There are no settlers on the portion of this township covered by the survey.

Tp 20 N. R. 4 E.

There is a cabin on the S. E. $\frac{1}{4}$ of sec. 4; a spring on the N. E. $\frac{1}{4}$ of sec. 9, also a spring on the N. E. $\frac{1}{4}$ of sec. 35.

Water runs in the cañon on the S. W. $\frac{1}{4}$ sec. 4, but it sinks before it passes out of the section

W. Oscar Cor.

U. S. Deputy Surveyor.

NOTE:-

103A

Where $\frac{1}{4}$ cors refer to one sec. only, tree in other sec. was added that said cors. might be more substantially witnessed and securely located than would be the case if but one tree had been used, and not for the purpose of identifying said cor. with two secs.

Authority Harp's letter June 15-1904

From cor to secs. 6 & 7 I run N. bet. secs. 5⁴⁴ & 6.

Thro. dense pine timber.

~~40.14~~
39.96

1/4 sec. cor. - a post in mid. of ston with 2 witness trees as described

by the Surveyor General, bears W. ²⁰ 14 lks. which makes the bearing and length of this 1/2 mile N. 0° ¹⁸ W. ~~40.14~~ chs

Thence I run N. from 1/4 sec. cor.

~~40.15~~
40.16

The closing cor. of secs. 5⁴⁴ & 6 - a post with two bearing trees as described by the Surveyor Gen.

bears W. ³² 12 lks. which makes the bearing length of this 1/2 mile

N. 0° ²⁷ W. ~~40.16~~ chs

W. Oscar Jacob
U. S. Deputy Surveyor

COURSE.	BOOK	DISTANCE.	LATITUDES.		DEPARTURES.	
			NORTH.	SOUTH.	EAST.	WEST.
S. Bdy.	EAST	240.00			240.00	
E. Bdy	NORTH	4.60	4.60			
"	N. 1° 21' W.	40.07	40.00			0.94
"	N. 0° 48' W.	40.00	40.00			0.56
"	N. 0° 25' W.	79.97	79.97			0.58
"	NORTH	40.05	40.05			
"	N. 2° 22' E	42.38	42.34		175	
N. Bdy, Sec. 24	S. 81° 30' W	47.97		7.09		47.44
"	WEST	27.12				27.12
E. Bdy, Sec. 14	N. 0° 15' W.	79.91	79.91			0.35
N "	S. 89° 34' W	80.32		0.61		80.32
S "	WEST	40.00				40.00
"	S. 89° 27' W	40.00		0.38		40.00
W. Bdy "	N. 0° 27' W	80.00	80.00			0.63
W "	N. 1° 59' E	40.65	40.63		1.41	
"	N. 0° 34' E	40.55	40.55		0.40	
S. 1/2 Sec. 33	N. 89° 41' W.	73.07	0.40			73.07
"	S. 89° 18' W	6.53		0.08		6.53
"	S. 87° 44' W.	33.41		1.32		33.38
"	S. 89° 59' W.	40.07		0.07		40.07
"	N. 89° 48' W.	6.49	0.25			6.49
W. Bdy sec. 5	S. 0° 27' E.	40.15		40.15		0.32
"	S. 0° 17' E	40.14		40.14		0.20
W. Bdy Sec 8	S. 0° 29' E.	37.98		37.98		0.32
"	South	40.00		40.00		
S. Bdy Sec. 8	N. 88° 34' E	39.06	0.98			39.05
"	EAST	34.25				34.25
E. Bdy Sec 17	S. 0° E	80.87		80.87		.05
S. Bdy Sec 16	EAST	6.47				6.47
E "	S. 2° 56' W.	40.40		40.35		2.07
"	S. 2° 19' E.	40.13		40.10		1.54
W. "	S. 0° 4 E.	40.07		40.01		.05
"	S. 0° R W	40.30		40.30		
S. Bdy Sec 28	S. 87° 41' E	39.93		1.61		39.90
"	EAST	34.22				34.22
E "	Sec. 33 S. 0° E	78.67		78.67		.05
			489.68	489.77	399.98	399.43
			Error in Lat	.09	Error in Dep	.55

LIST OF NAMES,
BOOK 349

106

A list of the names of the individuals employed by

H. Oscar Secor.

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

Subdivision lines of the fractional Township No. 20 N. Range No. 4 E. and corrections in T. 19 N. R. 3 E.

of the Gila and Salt River Base and Meridian, in the Territory of Arizona, showing the respective capacities in which they acted.

H. K. Ward. Chainman.

F. M. Lockwood. Chainman.

..... Chainman.

..... Chainman.

C. J. Schwartz. Axman.

..... Axman.

Norman Coots. Flagman.

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FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted W. Oscar Secor
United States Deputy Surveyor, in surveying all those parts or portions
of the Subdivisions of the fractional
Township No. 28 N. R. 4 E. ^{2nd}
corrections in T. 19 N. R. 3 E.

BOOK 349

of the Gila and Salt River Base and Meridian, in the Territory of Arizona, as 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.

- A. H. Stard Chainman.
- F. M. Lockwood Chainman.
- B. J. Schwarz Axman.
- Norman Cote Flagman.

Subscribed and sworn to before me this 14th day
of May, 1904

Joe Johnston
Notary Public.

[SEAL.]

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

108

I, W. Oscar Secor, United States
Deputy Surveyor, do solemnly swear that in pursuance of a contract
received from Hugh H. Price, United States
Surveyor-General for Arizona, bearing date of the 30th

day of June, 1902, 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 Ari-
zona, the Manual of Surveying Instructions, and the laws of the United
States, surveyed all those parts or portions of the

Subdivision lines of the
fractional Township No. 20
R. No. 4 E. any corrections in
Tp. 19 N. R. E.

BOOK 349

of the Gila and Salt River Base and Meridian, in the Territory of Ari-
zona, as are represented in the foregoing field notes as having been sur-
veyed by me and under my direction; and I do further solemnly swear
that all the corners of said survey have been established and perpetu-

ated in strict accordance with the Manual of Surveying Instructions, th
special instructions of the United States Surveyor-General for Arizon
and in the specific manner described in the field notes, and that the fo
going are the TRUE field notes of such survey; and should any fraud
detected I will suffer the penalty of perjury, under the provisions
an act of Congress approved August 8, 1846.

We I
United
of the
c

W. Oscar Lator
U. S. Deputy Surveyor.

Subscribed and sworn to before me this 19 day
of May, 1904

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Arizo

Frank A. Ingalls
Surveyor General
for Arizona

4890b150-8-02

BOOK 349

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BOOK 349
 APPROVAL.

Office of the U.S. Sur-General,

Phoenix, Arizona.

June 15 - 1904

The foregoing field notes of the survey

~~of~~ resurvey & retracement of subs. &
a portion of the E & N 1/4 of
T. 20 N. R. 4 E

of the Gila and Salt River Base and Meri-
 dian, in the Territory of Arizona,

executed by W. Oscar Secor

U. S. Dep. 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 approv-

ed.

Frank S. Ingick
 U. S. Sur-General.