

Subdivisions

~~Sk. 1~~

T 20 N. R. 4 E.

Secor.

BOOK 348

No-348

4-671

348

FIELD NOTES
GENERAL LAND OFFICE.

No-348

No-348

Field Notes
of the survey of the
Subdivision lines
of
Township No. 20 North
Range No. 4 East.
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 No. 102.
Dated June 30th, 1902.

Survey commenced Apr. 4th, 1904.
Survey completed May 4th, 1904.

2
Names and duties of assistants

H. K. Ward Chairman
 F. M. Lockwood Chairman
~~Glenn Morgan Mound~~
 C. J. Schwartz Assn.
 Norman Coots Flagman

Index for Books 348 and 349
 Township _____ Range _____

BOOK 348 County _____

		NORTH										
		6	5	4	3	2	1					
		89	97	96								
		7	8	9	10	11	12					
		85	78	83	42							
		18	17	16	15	14	13					
			75	69	87	23						
		19	20	21	22	23	24					
			60	55	33	15						
		30	29	28	27	26	25					
			63	51	49	28	10					
		31	32	33	34	35	36					
			61	47	30	12	7					
		SOUTH										

WEST EAST

2A

PRELI

3

We, N. K.
and F. M.

do solemnly swear to be true and
faithful chainmen; that we will
measure and plumb the tally
of all lines that we are
to measure and in accordance

Subdivis
Township
Correctio

of the Gila and Salt
River Arizona.

S.
J.

Subscribed and sworn to
of Maricopa

[SEAL.]

C

PRELIMINARY OATHS OF ASSISTANTS.

We, N. K. Ward
and F. M. Lockwood

do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distance to all notable objects, and the true length of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of the

Subdivision lines of fractional
Township No. 20 N. R. 4 E. 4th
Correction in T. 19 N. R. 3 E.

BOOK 348

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

N. K. Ward _____, Chainman.
F. M. Lockwood _____, Chainman.
_____, Chainman.
_____, Chainman.

Subscribed and sworn to before me this 25th day
of March, 1904

Geo. Johnston
Notary Public.

[SEAL.]

We, *Norman Coots*

and *C. J. Schwartz* 3

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

Subdivision lines of Fractional Township No. 20 N. R. 4 E. any corrections in T. 19 N. R. 3 E.

BOOK 348

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

Norman Coots Flagman.
C. J. Schwartz Axman.
..... Axman.
..... Axman.

Subscribed and sworn to before me this *25th* day of *March*, 190*4*

Geo. Johnston
Notary Public.



Subdivisions of

Survey commenced April 4th, 1904, and executed with a Buff and Berger engineers transit with Seagmuller Solar attachment. This transit is numbered 672; the horizontal limb having two double verniers placed opposite to each other, and reading to 30" of arc.

The instrument was examined and approved by the Surveyor General of Arizona at Phoenix, Arizona.

At my camp near the cor. of secs. 25, 26, 35 and 36, T_p 20 N., R. 4 E. in lat. $35^{\circ}04' N.$, long. $111^{\circ}53'^{43''} W.$ I set off $5^{\circ}46' N.$ on the decl. arc; and at noon observe the sun on the meridian, the

Sp. 20 N. R. 4 E.

resulting lat. is $35^{\circ}04' N.$

At 3 h. p. m., l. m. t. I set off $5^{\circ}49' N.$ on the decl. arc; $35^{\circ}04' N.$ on the lat. arc, and determine a true meridian with the solar, and mark the line thus determined on a stake driven in the ground about 8 chs. N. of my station.

I allow my instrument to remain at this point, and at 6^h 28^m p. m. l. m. t. I observe Polaris at Western elongation in accordance with instructions in the manual, and mark the line thus determined by a tack driven in a stake about 8 chs. N. of my station.

I lay off the azimuth of Polaris

$1^{\circ}28'$ to the east, and mark the true meridian thus determined on a stake firmly set in the ground. This point falls 0.5 ins. west of the point determined by the solar.

Apr. 4th 1904.

Apr. 5th, at 9^h a.m., l.m.t. I set off $6^{\circ}07'$ N. on the decl. arc; $35^{\circ}04'$ N. on the lat. arc. and determine a true meridian with the solar, and mark the line thus determined on a stake set in the ground at about 8 eds. N. of my station.

This line falls 0.3 ins. E. of the meridian determined from the Polaris observation.

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

The magnetic bearing of the true meridian is $N. 14^{\circ} W.$; the angle thus determined gives the magnetic decl. $14^{\circ} E.$
Apr. 5th 1904.

Apr. 6th at 7^h a.m. l.m.t. I set off $6^{\circ} 27' 30'' N.$ on the decl. arc; $35^{\circ} 03' N.$ on the lat. arc; and determine a true meridian with the solar at the cor. of as described by the Surv. Genl. secs. 35 and 36ⁿ on the S. side of Tp. 20 N. R. 4 E.

Hence I run.

$N. 14^{\circ} W.$ lat. secs. 35 and 36.

Over mountainous lands.

- Through dense brush
and pine timber.
- 15.32 Edge of rim of mesa bears
E. and W. Descend abruptly.
- 40.00 Set a malpais 18 x 18 x 6 ins
in a md. of stone for $\frac{1}{4}$
sec. cor. marked $\frac{1}{4}$ on W.
face, from which
A pine 30 ins. diam. bears
N. 28° W. 35 lks. dist. marked
 $\frac{1}{4}$ S. 35 B. T.
- A pine 15 ins. diam. bears.
S. 36° E. 49 lks. dist. marked
 $\frac{1}{4}$ S. 36 B. T.
- 56.00 Bottom of cañon, course
from S. E. to W.
- 80.00 Set a malpais 18 x 12 x 6 ins
in a md. of stone for cor.
of secs. 25, 26, 35 and 36.

marked with one ^v notch on
 S. and E. edges. from which
 a pine 24 in. diam. bears.
 N. 31° W. 115 lbs. dist. marked
 T. 20 N. R. 4 E. S. 26 B. T.

No other trees in distance

Build a md. of stone 2½ ft.
 base 1½ ft. high. N. of cor.

Pits impracticable.

Land mountainous 80.00 chs.

Dense pine 80.00 chs.

Dense brush 80.00 chs.

Soil rocky. 4th rate.

Subdivisions of

E. on a true line bet. secs.
25 and 36.

Over mountainous lands
Through dense pine timber
and oak brush.

40.00 Set a malpaire 16x12x10 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. 51° N. 82 lks. dist. marked
 $\frac{1}{4}$ S. 25 B. T.

A pine 26 ins. diam. bears
S. 20° E. 58 lks. dist. marked.
 $\frac{1}{4}$ S. 36 B. T.

74.25 Gulch, course N.

78.61 Intersect E. bdy. of Tp.

ok
441 lks. S. $0^{\circ} 48'$ E. of cor. of
secs. 25, 30, 31, and 36, the

Tp. 20 N. R. 4 E.

markings of which I change to refer to E. secs. only.

Set a malpais 24 x 20 x 8 ins. in a md. of stone for. l. l. of secs. 25 and 36. Marked with 1 notch on S. and 5 notches on N. edges, with l. l. on N. face from which

A piece 18 ins. diam. bears S. 52° N. 68 lks. dist. marked.

T. 20 N. R. 4 E. S. 36 l. l. B. T.

A piece 30 ins. diam. bears N. 64° 30' N. 78 lks. dist. marked

T. 20 N. R. 4 E. S. 25 l. l. B. T.

Land mountainous 78.61 chs.

Dense pines 78.61 chs.

Dense brush 78.61 chs.

Soil rocky 4th rate.

April 6th, 1904

Subdivisions of

April 7th: at 7^h a.m., l.m.t.
 I set off 6° 50' N. on the decl. arc;
 35° 04' N. on the lat arc; and
 determine a true meridian with
 the solar, at the cor. of secs. 25, 26,
 35, and 36, thence I run.

N. ^{0° 1' W} bet. secs. 25 and 26.

Over mountainous lands

Through dense pines, oaks,
 and oak brush, ascending

1.25 Top of rim of mesa bears
 N. W. and E.

29.90 Edge of rim of mesa, bears
 S. W. and S. E. Descend abruptly

40.00 Set a malpais 18 x 12 x 6 ins.

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

An oak 10 ins. diam. bears.

Sp. 20 N. R. 4 E.

S. 45° E. 4 lks. dist. marked.

1/4 S. 25 B. T.

An oak. 8 ins. diam. bears

N. 40° W. 4 lks. dist. marked.

1/4 S. 26 B. T.

45.36 Descend abruptly to cañon.

53.00 Bottom of cañon 1000 ft. deep.
course N., at 10 chs. W. turns
S. W. Ascend abruptly.

73.80 Top of point of slope of
mesa.

80.00 Set a sandstone 30x12x5 ins
OK in a md. of stone for cor. of
secs. 25, and 26, marked
with 1 notch on E. and 2
notches on S. edges.

from which

Ajuniper 24 ins. diam. bears

S. 18° W. 10 q lks. dist. marked.

14

Subdivisions of

T. 20 N. R. 4 E. S. 26 B. T.

A pinion 5 ms diam. Fears.

S. 18° E, 49 lks. dist. marked

T. 20 N. R. 4 E. S. 25 B. T.

Land mountainous 80.00 chs.

Dense pine and oak 80.00 chs.

Dense oak brush 80.00 chs.

Soil rocky. 4th rate.

Sp. 20 N. R. 4 E

E. on a true line bet. secs.
24 and 25

Over mountainous land.
ascending point of slope.
Through dense brush.

- 19.50 Top of mesa, bears N. and S. W.
- 33.30 Edge of bluff of gulch, bears
N. and S.
- 39.00 Bottom of gulch course N.
ascend.
- 40.00 Set a malpais 18x12x6 ins
in a md. of stone for $\frac{1}{4}$ sec.
cor. marked $\frac{1}{4}$ on N. face.
from which.
- A pine 7 ins. diam. bears
N. 20° E. 45 lks. dist. marked.
 $\frac{1}{4}$ S. 24 B. T.
- An oak 8 ins. diam. bears
S. 11° E. 44 lks. dist. marked

$\frac{1}{4}$ S. 25 B. T.

77.98 Intersect E. ldy. of Tp. 444 lks

S. of cor. of secs. 19, 24, 25 and 30, as described by the Surveyor General, the markings of which I change to refer to E. secs. only.

Set a malpais 16 x 12 x 6 ins. in a md. of stone for C. C. of secs. 24 and 25 marked with 2 notches on S. and 4 notches on N. edges, with C. C. on N. face, from which a pine 30 ins diam. bears S. 17° N. 42 lks. dist. marked T. 20 N. R. 4 E. S. 25 C. C. B. T. A pine 22 ins. diam. bears N. 66° N. 41 lks. dist. marked

T. 20 N. R. 4 E. S. 24, C. C. B. T.

Land mountainous 77.98 chs.

Dense brush 40.00 chs.

Dense pines 37.98 chs.

Soil rocky. 4th rate.

Apr. 7th, 1904

Subdivisions of

April 8th: At 7^{1/2} a.m. l.m.t.
 I set off $7^{\circ}13'00''$ N. on the decl. arc;
 $35^{\circ}05'$ N. on the lat. arc; and
 determine a true meridian
 with the solar, at the ^{1/2 sec.} cor. bet. ~~sec.~~
 23 and 24 which is a decayed
 stake. I reestablish as follows.

Set a malpais $18 \times 12 \times 6$ ins.
 in a md. of stone for $1/4$ sec.
 cor. marked $1/4$ on N. face.
 from which

A juniper 16 ins. diam. brass
 $S. 75^{\circ} N. 46$ lks. dist. marked
 $1/4 S. 23 B. T.$

A juniper 18 ins. diam. brass
 $S. 56^{\circ} E. 113$ lks. dist. marked
 $1/4 S. 24 B. T.$

Thence I run.

$S. 0^{\circ} 1' E$
 on a true line bet.

Tp. 20 N. R. 4 E.

secs. 23 and 24.

Over mountainous land
Through dense brush.

- 7.14 Edge of rim of mesa, bears
E. and N. Descend abruptly.
- 23.00 Bottom of cañon, 1000 ft.
deep, course S. W., Ascend
- 39.71 Intersect E. and N. line
R 535 lks. E. of cor. of sec.
25 and 26.

Set a malpais 16 x 14 x 10 ins.
in a md. of stone for C. Co.
of secs. 23 and 24, marked
with 1 notch on E, and two
notches on S. edges, and
l.l. on N. face,

from which
An oak 8 ins. diam. bears
N. 25° E. 30 lks. dist. marked

T. 20 N. R. 4 E. S. 24 C. 6 B. 5

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.

Thence I return to the $\frac{1}{4}$ sec. cor. bet. secs. 23 and 24, and run.

N. bet. secs. 23 and 24

Over rolling mesa.

Through dense oak brush and pine and oak timber.

40.00 The cor. of secs. 13, 14, 23 and 24, a decayed stake in a md. of stone, bears N. 19 lks. which makes the bearing and length of this $\frac{1}{2}$ mile N. $0^{\circ} 16' N$
40.00 chs.

I rebuild this cor. as follows, using same witness trees.

Set a malpais 18x12x4 ins. in a md. of stone for cor. of secs. 13, 14, 23 and 24 marked with 1 notch on E. side 3 notches on S. edges.

from which.

Dead pine 18 ins. diam. bears S. 15° N. 93 lks. dist. marked.

T. 20 N. R. 4 E. S. 23 B. T.

Oak. 8 ins. diam. bears

N. 48° W. 55 lks. dist. marked.

T. 20 N. R. 4 E. S. 14 B. T.

An oak 12 ins. diam. bears

S. 41° E. 104 lks. dist. marked

T. 20 N. R. 4 E. S. 24 B. T.

Two pines 45 ins. diam. bears

Subdivisions of

N. 86° E. 92 lks. dist. marked

T. 20 N. R. 4 E. S. 13 B. T.

Land mountainous 79.71 cks

Dense brush 79.71 cks

Soil rocky, 4th rate.

Tp. 20 N. R. 4 E.

E. bet. secs. 13 and 24.

27.12. $\frac{1}{4}$ sec. cor., a decayed stake in a md. of stone with 2 witness trees.

I reestablish ^{this cor.} as follows

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

face, from which
A pine 30 ins. diam. bears
S. 42° W. 92 lks. dist. marked
 $\frac{1}{4}$ S. 24 B. T.

A pine 30 ins. diam. bears
N. 46° W. 27 lks. dist. marked
 $\frac{1}{4}$ S. 13 B. T.

The bearing and length of
this $\frac{1}{2}$ mile is E. ^{27.12} ~~27.08~~ chs.
Thence I run.

East.

24

Subdivisions of

- 0.15 Edge of bluff of cañon, 400 ft. deep, bears N. 30° W. and S. 30° E. Descend abruptly.
- 6.00 Bottom of cañon, course S. 30° E., ascend.
- 12.50 Top of bluff E. side cañon bears N. 30° W. and S. 30° E.
- 47.45 Intersect E. side Tp. 710 lks. S. of cor. of secs. 13, 18, 19 and 24.
- The bearing and length of this $\frac{1}{2}$ mile is N. 81° 30' E. 47.97 chs. ^{75.00}
~~79.00~~
- Land mountainous ^{75.00}
~~75.14~~ chs.
- Dense brush ^{79.00}
~~75.14~~ chs.
- Soil rocky. 4th rate.

April 8th, 1904.

Sp. 20 N. R. 4 E.

April 9th: at 7^h a.m., l.m.t.

I set off 7°35' N. on the decl. arc;
35°23' N. on the lat arc; and deter-
mine a true meridian with the
solar at the cor. of secs. 34 and 35
on the S. bdy of Sp. as described by the
S. W. Genl.
Hence I run.

N. 0°01' N. Set secs. 34 and 35

Over mountainous land.

Through dense brush.

Ascending.

1.75 Top of point of slope.

Descend steep slope diagonally.

40.00 Set a sandstone 22 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 pinion 6 ins. diam. bears

N. 21° N. 53 lks. dist. marked

1/4 S. 34 B. T.

No other trees in distance
Build a md. of stone 2 1/2 ft.
base 1 1/2 ft. high N. of cor.

Pits impracticable.

51.50 Bottom of Sycamore cañon
2000 ft. deep, course S 35 W.
ascend abruptly.

75.00 Top of point of slope of mesa.

80.00 Set a malpais 18x12x12 ins.
in a md. of stone for cor. of
secs. 26, 27, 34 and 35.

marked with 2 notches on E.
and 1 notch on S. edges,
from which.

A cedar 10 ins. diam. bears
S. 40° E. 47 lks. dist. marked.
T. 20 N. R. 4 E. S. 35 B. T.

A cedar 10 ins. diam. bears

S. 69° N. 53 lks. dist. marked.

T. 20 N. R. 4 E. S. 34 B. T.

A spruce 14 ins. diam. Trees

N. 77° N. 71 lks. dist. marked

T. 20 N. R. 4 E. S. 27 B. T.

A juniper 6 ins. diam. Trees

N. 81° E. 78 lks. dist. marked.

T. 20 N. R. 4 E. S. 26 B. T.

Land mountainous 80.00 chs.

Dense brush 80.00 chs.

Soil rocky. 4th rate.

At this corner I set off
 $7^{\circ}38'$ N. on the decl. arc; and
 at noon observe the sun on the
 meridian; the resulting lat. is
 $35^{\circ}04'$ N. $35^{\circ}05'$

Subdivisions of

E. on a random line bet.
secs. 26 and 35

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

80.05 The cor. of secs. 25, 26, 35
and 36. Hence I run
N. on a true line bet.
secs. 26 and 35

Over mountainous lands
Through dense brush,
descending abruptly.

40.00 Bottom of gulch. Course
N. 60° W.

40.025 Point for $\frac{1}{4}$ sec. cor. comes
in bottom of deep, narrow
gulch. Ascend.

44.50 Top of bank of gulch.

^{0.25}
44.75 Set a malpais 18x12x6 ins.
in a md. of stone for N. C.
to $\frac{1}{4}$ sec. cor. marked N. C.

Tp. 20 N. R. 4 E.

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

A pine 12 ins. diam. bears
N. 60° W. 49 lks. dist. marked

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

A pine 18 ins. diam. bears
S. 50° W. 60 lks. dist. marked

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

57.40 Top of point of slope. descend abrupt.

72.00 Bottom of Sycamore canon,
course S. 10° W.

74.00 Ascend out of canon.

80.05 The cor. of secs. 26, 27, 34th & 35.

Land mountainous 80.05 chs.

Deer brush 80.05 chs

Soil rocky. 4th rate.

April 9th 1904.

Subdivisions of

Apr. 10th: at 7^h a.m. l.m.t.
 I set off $7^{\circ}57'N$. on the decl. arc;
 $35^{\circ}04'N$. on the lat. arc; and
 determine a true meridian with
 the polar at the cor of secs. 26, 27,
 34 and 35. Thence I run.

- $N. 0^{\circ}01'N$. bet. secs. 26th & 27th.
 Over mountainous land,
 descending through dense brush
- 7.25 Bottom of Sycamore cañon.
 course S. E.
- 8.00 Ascend abruptly steep
 slope of mesa.
- 35.90 As point for $\frac{1}{4}$ sec. cor.
 will come in unsafe
 place on face of steep
 slope, I
- Set a sandstone $24 \times 20 \times 6$ ins.
 in a md. of stone for N.S.

Tp. 20 N. R. 4 E.

to 1/4 sec. cor. marked N. C.
1/4 on N. face, and build
a md. of stone 3 ft. base
2 ft. high. N. of cor.

64.10

^{Pit} impracticable.
Top of ruin of mesa. 2000
ft. above bottom of cañon.
bears E and N.

80.00

Set a malpais 18 x 18 x 12 ins
in a md. of stone for cor.
of sec. 22, 23, 26, and 27.
marked with 2 notches on
E. and S. edges, from which
A pine 30 ins. diam. bears
S. 16° 30' N. 85 lks. dist. marked.
T. 20 N. R. 4 E. S. 27 B. T.
A pine 14 ins. diam. bears
S. 50° 30' E. 104 lks. dist. marked
T. 20 N. R. 4 E. S. 26 B. T.
A oak 14 ins. diam. bears

Subdivisions of

N. 81° W. 28 lks. dist. marked
T. 20 N. R. 4 E. S. 22 B. T.

A pine 30 ins. diam. here

N. 27° E. 121 lks. dist. marked
T. 20 N. R. 4 E. S. 23 B. T.

Land mountainous 80.00 chs.

Dense brush 80.00 chs.

Soil. rocky. 4th rate.

Sp. 20 N. R. 4 E.

E. on a random line
bet. secs. 23 and 26.

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

80.08 Intersect N. and S. line 4
lks. N. of cor. of secs. ~~23, 24~~, 25
and 26. Thence I run

N. $89^{\circ}58'$ N. on a true line
bet. secs. 23 and 26.

Descending

Over mountainous land,
through dense pine and brush.

9.00 Bottom of cañon. 1000 ft. deep.

course S. 20° N. Ascend abruptly

40.04

Point for $\frac{1}{4}$ sec. cor. comes in unsafe place
Top of bluff of mesa, bears
N. E. and S. N.

41.00

Set a malpais $20 \times 14 \times 5$ ins.
in a md. of stone for N. C.

96 lbs. W. of $\frac{1}{4}$ cor. point to sec. 26 and
635 lbs. W. of $\frac{1}{4}$ cor. point to sec. 23

$\frac{1}{4}$ on N. face, and built

Subdivisions of

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

No trees in distance.

Pits impracticable

80.08 The cor. of secs. 22, 23, 26th & 27.

Land mountainous 80.08 chs.

Deer price 38.00 chs.

Deer brush 42.08 chs.

Soil rocky. 4th rate.

April 10th 1904

Sp. 20 N. P. 4 E.

April 11th: at 7^h a.m., l.m. t.
I set off $8^{\circ}19' N.$ on the sec. arc;
 $35^{\circ}05' N.$ on the lat. arc, and
determine a true meridian
with the solar at the cor. of
secs. 22, 23, 26 and 27.

Thence I run.

$N. 0^{\circ}01' N.$ bet secs. 22nd & 23.

Over mountainous lands
Through dense pines, and
bush.

40.00 ✓ Set a malpais $18 \times 12 \times 10$ ins
in a md. of stone for $\frac{1}{4}$ sec.
To sec. 23 only
cor. marked $\frac{1}{4}$ on N. face
from which

A pine 20 ins. diam. bears
 $S. 55^{\circ} E.$ 36 lbs. dist. marked
 $\frac{1}{4} S. 23 B. T.$

A pine 20 ins. diam. bears

Subdivisions of

- S. 74° W. 116 lks. dist. marked
 1/4 S. 22 B. T.
- 54.60 Edge of rim of cañon bears
 E. and N. Descend abruptly.
- 76.00 Bottom of cañon. 1200 ft.
 deep. course S. 75° W. Ascend.
- 80.00 Set a limestone 20x8x7 in
 in a md. of stone for ^{N.E.} cor of
 sec. 22, marked with 2
 notches on E. and 3 notches
 on S. edges, with a md.
 of stone 2 1/2 ft. base. 1 1/2 ft.
 high. S.W. of cor.
- No trees in distance
 Pits impracticable.
- Land mountainous 8000 chs.
 Dense pines. 5460 chs.
 Dense brush 3000 chs.
 Soil rocky, 4th rate.

Tp. 20 N. R. 4 E.

From the cor. of secs. 13, 14,
23 and 24. I run

N. bet. secs. 14 and 23.

Over mountainous land.

Through dense pines and
brush.

39.56 $\frac{1}{4}$ sec. cor. which is a
decayed stake in md. of
stone bears S. 47 E. which
makes the bearing and
length of this $\frac{1}{2}$ mile
S. 89. 20' N., 39.56 Chs.

I reestablish this $\frac{1}{4}$ ^{sec.} cor.
as follows

Set a malpais $14 \times 12 \times 12$ in
in a md. of stone for $\frac{1}{4}$ sec.
cor. marked $\frac{1}{4}$ on N face
from which

An oak 6 ins. diam. bears

N. 71° E. 34 lks. dist. marked.
 $\frac{1}{4}$ S. 14 B. T.

A pine 30 ins. diam. bears
 S. 72° N. 106 lks. dist. marked.
 $\frac{1}{4}$ S. 23 B. T.

Hence I run.

N. on a true line from $\frac{1}{4}$
 sec. cor. bet. secs. 14 and 23.

2.50 Edge of rim of mesa bears
 N. and S. at 2 pts. S. turns
 S. 75° N. Descend abruptly.

45.79 Intersect N. and S. line
 76 lks. S. of N. E. cor. of
 sec. 22.

Set a limestone $17 \times 10 \times 7$ ins
 in a md. of stone for C. C.
 to sec. 23, marked with 2
 notches on E. and 3 notches
 on S. edges. with C. C. on

E. face, from which
 a cedar. 10 ins. diam. trees
 S. 75° E. 97 lks. dist. marked
 T. 20 N. R. 4 E. S. 23. C. C. B. T.
 Land mountainous 85.35 chs.
 Dense pines 40.00 chs.
 Dense brush. 45.35 chs.
 Soil rocky, 4th rate.
 Apr. 11th, 1904.

Subdivisions of

Apr. 12th; at 7 a.m. l.m.t.
 I set off $8^{\circ}41' N.$ on the decl. arc;
 $35^{\circ}06' N.$ on the lat. arc; and
 determine a true meridian
 at the cor. of secs. 13, 14, 23rd and 24.

Thence I run.

N. bet. secs. 13 and 14

Over rolling mesa.

Through dense oak brush.

39.95 The $\frac{1}{4}$ sec. cor. which is
 a decayed stake in a
 md. of stone bears $N. 18^{\circ} W.$
 which makes the bearing
 and length of this line
 $N. 0^{\circ}15' W. 39.95$ Chs.

I establish this cor. by
 setting a malpais. $16 \times 10 \times 6$ in
 in a md. of stone for $\frac{1}{4}$ sec
 cor. marked $\frac{1}{4}$ on N. face

Sp. 20 N. R. 4 E.

and build a md. of stone
3 ft. base. 2 1/2 ft. high N. of cor.
No trees in distance

Pits impracticable.

Hence run.

N.

39.96 The cor. of secs. 11, 12, 13, 14, a
decayed stake with 4 pine
witness trees, bears N. 17 lks.
which makes the bearing and
length of this 1/2 mile N. 0° 15'
N. 39.96 Chs. Rebuild this cor.
Set a malpais 17 x 12 x 8 ins. in
a md. of stone for cor. of secs. 11, 12,
13 and 14 marked with 1 notch
on E. and 4 notches on S. edges.
Build a md. of stone 3 ft. base
2 ft. high N. of cor.

Subdivisions of

Landmountainous 79.91 chs.
 Dense pines 79.91 chs.
 Soil rocky 4th rate.

- N. bet. secs. 11 and 14.
- 10.84 Edge of rim of box cañon
 400 ft. deep, near its head.
 bears S. N., Descend precipitously
- 12.00 Foot of bluff, continue to
 descend steep slope.
- 21.00 Bottom of cañon, course
 S. 80° N. at 10 chs. N. turns
 S. N. ascend.
- 40.29 Top of bluff bears N. 75° E.
 and S. 75° N. The 1/4 sec.
 cor., a decayed stake in
 md. of stone with 2 bearing
 trees, ^{properly marked} bears S. 30 lbs. which
 makes the length and bearing

Sp. 20 N. R. 4 E

of this $\frac{1}{2}$ mile S. $89^{\circ}34'N.$ ✓
40.29 chs!

Rebuild this cor. by setting
a malpais $14 \times 10 \times 8$ ins. in
a mound of stone for $\frac{1}{4}$
sec. cor. marked $\frac{1}{4}$ on N. face.
Continue N. on same line.

80.32 The cor. of secs. 10, 11, 14 and
15, a decayed stake with
4 witness trees with marks
obliterated, bears S. 60 lks.
which makes the bearing
and length of this $\frac{1}{2}$ mile
S. $89^{\circ}34'N.$ 40.03 chs!

I reestablish this cor. as
follows.

Set a malpais $20 \times 14 \times 6$ ins
in a md. of stone for cor. of
secs. 10, 11, 14 and 15 marked

Subdivisions of

with two notches on E. and
four notches on S. edges
from which

A pine 16 ins. diam. bears
N. 60° E. 116 lks. dist. marked
T. 20 N. R. 4 E. S. 11 B. T.

A pine 12 ins. diam. bears
N. 57° W. 66 lks. dist. marked
T. 20 N. R. 4 E. S. 10 B. T.

A pine 16 ins. diam. bears
S. 24° W. 100 lks. dist. marked
T. 20 N. R. 4 E. S. 15 B. T.

A pine 6 ins. diam. bears
S. 60° E. 40 lks. dist. marked.
T. 20 N. R. 4 E. S. 14 B. T.

Land rolling mesa. 80.32 chs.
Dense pines 80.32 chs.

Soil rocky. 4th rate.

Tp. 20 N. R. 4 E.

S bet. secs. 14 and 15.

40.00

The $\frac{1}{4}$ sec. cor., a decayed stake in md. of stone, bears E. 25 lbs., which makes thebearing and length of this which I rebuild as follows: $\frac{1}{2}$ mile S. 0 21' E. 40.00 chs.Don on a true line from $\frac{1}{4}$ sec. cor. bet. secs. 14 and 15

Edge of vertical bluff 700 ft. high, bears E. and N. at 3 chs. E. turn N. E.

As it is impossible to measure further S. I set a malpais 24 x 16 x 6 ins. in a md. of stone for N. C. to C. C. bet. secs. 14 and 15.

marked with 2 notches on E. and 3 notches on S. edges and N. C. C. C. on N. face.

Set a malpais 18 x 10 x 6 ins.
in a md. of stone for $\frac{1}{4}$ sec. cor.
marked $\frac{1}{4}$ on N. face, raised a
ground of about 2 ft. high, 3 ft.
base N. of cor.
Pits impracticable.

27.5
~~64.75~~

Subdivisions of

from which

A pine 12 ins. diam. bears
N. 85° E. 15 lks. dist. marked.
N. C. T. 20 N. R. 4 E. S. 14 C. C. B. T.

A pine 14 ins. diam. bears
N. 15° W. 10 lks. dist. marked.
N. C. T. 20 N. R. 4 E. S. 15 C. C. B. T.

Land mountainous 64.75 chs

Grass & brush 64.75 chs.

Soil rocky 4th rate

April 12th 1904

Tp. 20 N. R. 4 E.

April 13th; at 7^h a.m. l.m.t.
I set off 9° 03' N. on the decl. arc.
35° 03' N. on the lat. arc; and
determine a true meridian
with the solar at the cor. of
cor. of secs. 33, and 34 on the S.
bdy. as described by the Surv.
Genl.

Hence I run.

N. 0° 02' N. bet. secs. 33 and 34.

Over mountainous lands
Through dense brush.

Descend abruptly.

31.50 Bottom of cañon 1200 ft.
deep, course S. E. ascend.

40.00

Set a malpais 14 x 10 x 7 ins
in a md. of stone for 1/4

Subdivisions of

sec. cor. marked $\frac{1}{4}$ on
N. face, and build a md.
of stone N. of cor. $3\frac{1}{2}$ ft. ^{high}
Pits impracticable.

54.00 Top of ruin of mesa bears
N. W. and S. E.

80.00 Set a malpais $20 \times 12 \times 12$ ins
in a md. of stone for cor.
of secs. 27 and 34. marked
with 3 notches on E, and
one notch on S. edges.
from which.

A pine 26 ins. diam. bears
S. 10° E. 97 lbs. dist. marked.
T. 20 N. R. 4 E. S. 34 B. T.

A juniper 14 ins. diam. bears
N. 50° E. 39 lbs. dist. marked.
T. 20 N. R. 4 E. S. 27 B. T.

Land mountainous 80.00 lbs

N. 20 W. P. 4 E.

Dense brush 80.00 chs.
Soil rocky. 4th rate.

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

Over mountainous land
Through dense brush.

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

80.10 Intersect N. and S. line at
the cor. of secs. 26, 27, 34th and 35
Thence S run.

N. on a true line bet. secs
27 and 34.

Ascending steep slope of
mesa.

28.00 Top of rim of mesa bears N.
15° W. and S.

40.05 Set a malpais 16 x 12 x 12 ins
in a md. of stone for $\frac{1}{4}$ sec.

Subdivisions of

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

A juniper 36 ins. diam. bears
N. 10° E. 27 lks. dist. marked
 $\frac{1}{4}$ S 27 B. T.

A juniper 8 ins. diam. bears
S. 10° E. 54 lks. dist. marked.
 $\frac{1}{4}$ S. 34 B. T.

80.10 The cor. of secs. 27, 28, 33rd & 34th
Land mountainous 80.10 chs.
dense brush 80.10 chs.
Soil rocky. 4th rate.

Apr. 13th 1904

Tp. 20 N. R. 4 E.

April 25th: at 7^h a.m., l m. t.

I set off $13^{\circ}12'$ N. on the decl. arc;
 $35^{\circ}04'$ N. on the lat. arc; and
 determine a true meridian with
 the solar at the $\frac{1}{4}$ sec. cor. bet.
 secs. 28 and 33.

Hence I run.

E. on a true line bet secs.
 28 and 33.

Over mountainous land
 Through dense brush

- 4.00 Descend to cañon
 10.20 Bottom of cañon, course
 S. E., ascend.
 14.00 Top of bluff E. side of cañon
 bears N. N. and S. E.
 34.22 Intersect N and S. line
 133 lbs. ^{50° 01' E.} of cor. of secs. 27
 and 34.

Subdivisions of

Set a malpais 18 x 10 x 10 mi
 in a md. of stone for C.C.
 of secs. 28 and 33, marked
 with 3 notches on E. and one
 notch on S. edges. with
 C.C. on N. face, from which
 a pine 12 mi. diam. bears

S. 78° N. 127 lks. dist. marked
 T. 20 N. R. 4 E. S. 33^{C.C.} B. T.

A pine 16 mi. diam. bears
 N. 67° W. 208 lks. dist. marked
 T. 20 N. R. 4 E. S. 28 C.C. B. T.

Land mountainous 34.22 chs.
 Dense brush 34.22 chs.
 Soil rocky. 4th rate.

Sp. 20 N. R. 4 E.

N. 0° 02' N. bet. secs. 27 and 28.

Over rolling mesa.

Through dense brush.

40.00 Set a malpais 28x17x6 ins.
in a md. of stone for $\frac{1}{4}$ sec.
to sec 27 only.
cov. marked $\frac{1}{4}$ on N. face
from which

A juniper 36 ins. diam. bears
S. 50° E. 69 lks. dist. marked
 $\frac{1}{4}$ S. 27 B. T.

A juniper 24 ins. diam. bears
N. 65° N. 128 lks. dist. marked
 $\frac{1}{4}$ S. 28 B. T.

60.80 Edge of bluff of mesa, bears
E. and N. Descend abruptly

70.00 Bottom of rincon, ascend
abruptly.

79.80 Top of bluff, bears N. 20° E.
and S. 20° N.

54

Subdivisions of

80.00 ft. Seta malpais. 18x14x6 ins.
 in a md. of stone for cor.
 of secs. 22 and 27. marked
 with 3 notches on E. and
 2 notches on S. edges, and
 build a md. of stone 2 1/2
 ft. base and 1 1/2 ft high
 N. of cor. Pits impracticable
 Land mountainous 80.00 cks
 Dense brush 80.00 cks
 Soil rocky. 4th rate.

Twp. 20 N. R. 4 E.

E. on a random line bet.
secs. 22 and 27.40.00 Set temp. $\frac{1}{4}$ sec. cor.80.00 Intersect N. and S. line at
cor. of secs. 22, 23, 26 and 27.

Thence S. run.

N. on a true line bet. secs.
22 and 27.

Over mountainous lands.

Through dense brush.

13.75 Edge of ruin of mesa bears

N.W. and S.E. Descend abruptly

37.85 Limestone bench. As point for

6K. $\frac{1}{4}$ sec. cor will come in

unsafe place on steep slope I

Set a limestone 20 x 14 x 7 ins.

in a md. of stone for N. E. to

 $\frac{1}{4}$ sec. cor. marked N. E. $\frac{1}{4}$ on

N. face, and build a md

Subdivisions of

of stone sft. base 2 ft high
N. of cor.

Pits unpracticable

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

49.00 Bottom of Sycamore cañon
course S. E. ascend.

79.90 Top of bluff of mesa bears
N. W. and S. E. At 2 chs S.
turns S. W.

80.00 The cor. of secs. 22 and 27.
Land mountainous 80.00 chs.
Dense brush 80.00 chs.
Soil rocky. 4th rate.

April 25th, 1904.