

No. 456

BOOK 456

subdivision

4-671

456

FIELD NOTES
GENERAL LAND OFFICE.

Township 23. N. R. 1. E

Index

(4-674.)

Township 23 N R. 1 E.

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No. 456

Field Notes
of the survey of the
Subdivision lines
of
Township 23 North, Range 1 East,
of the
Gila and Salt River Basins and Meridian
in the
Territory of Arizona
as surveyed by
Francis W. Cury,
U. S. Deputy Surveyor,
Charles E. Perkins,
Compassman and U. S. Deputy Surveyor
under contract No 31.
dated June 21, 1894.

Survey completed May 13, 1894.

Survey completed May 20, 1894.

3 is
Blank

BOOK 456

Subdivisions

chs

Survey commenced May 13,
1894, with a W. & L. E. Gurley
Solar Transit.

Preliminary to commencing
the survey of this Township
I go to the cor. to Tps. 22 and
23 North, Ranges 1 and 2 East,
which is a post, firmly
set and properly marked
and witnessed as des-
cribed in the field notes
furnished by Surveyor
General.

At this cor. I verify the
adjustments of my in-
strument and find them
correct. Lat. $35^{\circ} 18' N$, Long.
 $112^{\circ} 12' W$.

Having set the instru-

Twp. 23 North Range 1 East.

cho. went over the centre of the township cor, May 13th, 1894, at 7 h a.m. l.m.t. I set off $35^{\circ}18'$ on the lat. arc, $18^{\circ}28'11''$ on the decl. arc, and determine a true meridian with the solar.

I find the var. to be $14^{\circ}49' E$. therefore the mean var. is $14^{\circ}47' E$.

From the township cor. I run North on the east boundary of sec. 36. Var. $14^{\circ}47' E$, and at 40.02 chains find $\frac{1}{4}$ sec. cor. 3 lks N. and at 80.05 chains find the cor. to secs 35 and 36, 3 lks west of my line.

Subdivisions

chs. The true course of the East boundary of sec. 36, is therefore as above stated, and my chaining practically agrees with the original survey.

The south boundary of sec. 36 was run by me May 5th and the bearing is S. $89^{\circ} 58' E.$ and N. $89^{\circ} 58' W.$

From the cor. to secs. 1, 2, 35 and 36, on the S. boundary of the Township as hereinbefore described I run

N. $0^{\circ} 1' W.$ bet. secs. 35 and 36.

Var. $14^{\circ} 47' E.$

Over rolling land.

Sp. 23 North Range / East (contd)

- 40.00 ^{hs.} Set a malpais stone 19x16x
13 ins. 14 ins. in the ground
for 1/4 sec. cor, marked 1/4
on W. face, and raised a
mound of stone 1 1/2 ft. high,
2 ft. base, alongside, from
which
a cedar 26 ins. in. diam.
bns. N. 13° 27' W. 46 lks dist.
marked 1/4 S. B.T.
a Juniper 16 ins. diam.
bns. N. 87° 13' W. 97 lks. dist
marked 1/4 S. B.T.
- 65.00 Descent 100 feet.
- 80.00 Foot of descent.
- Set a malpais stone 14x
9x8 ins. 9 ins. in the
ground for cor. to secs.
25, 26, 35 and 36, marked with

Subdivisions

chs. / notch on S. and E. edges,
 and raised a mound of
 stone $1\frac{1}{2}$ ft. high, 2 ft.
 base, alongside, from
 which
 a cedar 10 ins. diam. bro
 S. $61^{\circ}37'$ W. 85 lks. dist.
 marked T. 23 N. R. 1 E. b. 35 B.T.
 a cedar 10 ins. diam. bro.
 S. $27^{\circ}23'$ W. 137 lks. dist
 marked T. 23 N. R. 1 E. b. 35 B.T.
 No other trees within limits.
 Land, rolling.
 Soil, stony, 3rd rate.
 No timber, some scattering
 brush.

N. $89^{\circ}58'$ E. on a random
 line bet. secs. 25 and 36.

T. 23 N. R. 1 E. (cont'd)

chs.	Var. $14^{\circ} 47'$ East.
40.00	Set temporary $\frac{3}{4}$ sec. cor.
79.90	Intersect E. ldy of Tp. 17 lks S. of cor. to secs. 25, 30, 31, and 36, which is a stone firmly set and properly marked and witnessed as described in the field notes furnished by Sur- veyor General Thence I run S. $89^{\circ} 51'$ W. on a true line bet. secs. 25 and 36.

Var. $14^{\circ} 47'$ East.

Over rolling land.

10.00	Descend 200 ft.
27.00	Cataract creek (dry) 12 ft. deep, course N. Ascend 60 ft.

Subdivisions

- chs.
- 34.00 Top of ascent.
- 39.95 Set a malpais stone $18 \times 14 \times 12$ ins. 12 ins. in the ground for $1/4$ sec. cor. marked $1/4$ on N. face, and raised a mound of stone $1\frac{1}{2}$ ft. high, 2 ft. base, alongside. Pits impracticable.
- From this cor. a deserted ranch house hrs. N. $85^{\circ} 30' E$ about 500 yards.
- see corals hrs. N. $13^{\circ} E$. about 600 yards.
- 79.90 The cor. to secs. 25, 26, 35 and 36.
- Land, rolling.
- Soil, stony 3rd rate.
- No timber.

T. 23 N. R. 1 E. (cont'd)

- chs. N. $0^{\circ} 1' W$. bet. sec. 25 and 26.
 Var. $14^{\circ} 47'$ East
 over rolling land.
- 33.00 ascent 75 ft.
- 39.00 Top of ascent.
- 40.00 a malpais rock in place,
 $2 \times 2 \times 1\frac{1}{2}$ ft. above ground,
 which I mark with cross
 (X) at exact cor. point,
 for $\frac{1}{4}$ sec. cor. with $\frac{1}{4}$
 on W. face, and raised a
 mound of stone $1\frac{1}{2}$ ft.
 high, 2 ft. base, alongside
 from which
 a cedar 6 ins. diam. hrs.
 N. $90^{\circ} 32' W$ 210 lbs. dist.
 marked $\frac{1}{4}$ S. B.T.
 a cedar 8 ins. diam. hrs.
 N. $71^{\circ} 15' W$. 109 lbs. dist.

Subdivisions

- chs marked $1/4$ S. B.T.
- 67.00 Descent 75 ft.
- 73.00 Foot of descent.
- 80.00 Set a limestone $20 \times 16 \times 12$ ins. 15 ins. in the ground for cor. to nos. 23 24 25 and 26, marked with 2 notches on S. and 1 notch on E edges, and raised a mound of stone, $1 1/2$ ft high 2 ft. base, alongside from which
- A cedar 8 ins. diam. hrs N. $47^{\circ} 29'$ E. 127 lks. dist marked T. 23 N. R. 1 E. S. 24 B.T.
- a cedar 6 ins. diam. hrs S. $31^{\circ} 13'$ E 109 lks. dist. marked T. 23 N. R. 1 E. S. 25 B.T.
- a Pines 6 ins. diam. hrs

T. 23 N. R. 1 E. (contd)

cho. b $90^{\circ} 19' W.$ 106 lbs. dist. marked

T. 23 N. R. 1 E. b. 26 B.T.

a Pinon 8 ins. diam hrs.

b. $53^{\circ} 35' W.$ 8 lbs. dist.

marked T. 23 N. R. 1 E. b. 26 B.T.

Land, rolling-

Soil, stony, 3^d and 4th rate.

No timber, some scattering
cedar and pinon brush.

N. $89^{\circ} 51' E.$ on a random line
bet secs. 24 and 25.

Var. $140^{\circ} 47' East.$

40.00 Bet temporary $1/4$ sec. con-

79.87 Contract E. bdy of Sp. 13
lbs. N. of con to secs. 19, 24,
25 and 30, which is a
stone firmly set and
properly marked and

Subdivisions

chs witnessed as described
in the field notes fur-
nished by Surveyor
General.

Thence I run

$5.89^{\circ} 57'$ N. on a true line
bet. secs. 24 and 25.

Var. $14^{\circ} 47'$ East.

over rolling land.

10.00 Enter dense cedar and
pinus bush

39.93 Set a lime stone $17 \times 11 \times 9$
ins. 12 ins. in the ground
for $1/4$ sec. cor. marked
 $1/4$ on N. face, and raised
a mound of stone $1 1/2$ ft.
high, 2 ft. base, alongside,
from which
a cedar 8 ins. diam. bro.

T. 23 N-R. 1 E. (contd)

- chs. N. $61^{\circ} 19'$ E. 82 lbs. dist. marked
 $1/4$ S. B.T.
 a Pinon 7 ins. diam. tree
 S. $71^{\circ} 46'$ W. 116 lbs. dist.
 marked $1/4$ S. B.T.
- 41.00 Descent 400 ft into cataract
 creek.
- 45.00 Bed of creek, (dry) course N.E.
 ascent 300 ft.
- 50.00 Top of ascent.
 Thence over rolling land.
- 79.87 The cor. to secs. 23, 24, 25
 and 26.
 Land, rolling and mountainous.
 Soil, rocky, 4th rate.
 Timber, some scattering
 pine along creek.
 mountainous, or land covered
 with dense brush, 40 chs.

Subdivisions

- chs. N $0^{\circ} 1' W$. bet. secs 23 and 24.
 Var. $14^{\circ} 47'$ East.
 over rolling land.
- 7.00 Descent 250 ft.
- 22.00 Foot of descent, small ravine,
 course N. E. Ascent 250 feet.
- 27.00 Top of ascent, ridge, course E. W.
 Descent 350 ft into Cataract creek.
- 29.50 Bed of creek, (dry) course N. W.
 ascent 500 ft.
- 40.00 Set a malpais stone 18×14
 $\times 12$ ins. 12 ins in the
 ground for $1/4$ sec. cor.
 marked $1/4$ on W. face, and
 raised a mound of stone
 $1 1/2$ ft high, 2 ft base, along-
 side, from which
 a Pinon 16 ins. diam. to
 S. $83^{\circ} 14'$ W. 19 lbs. dist.

Sp. 23 N. R. 1 E. (cont'd)

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

a Pinon 10 ins. diam. hrs.

$\angle 9^{\circ} 27'$ N. 29 lbs. dist. marked
 $\frac{1}{4}$ S. B.T.

53.00 Top of ascent.

Thence through dense brush.

80.00 Set a malpais stone $20 \times$
 18×12 ins. 15 ins. in the
ground for cor. to secs.

13, 14, 23 and 24 marked with
3 notches on S. and 1 notch
on E. edges, and raised a
mound of stone $1\frac{1}{2}$ ft high,
2 ft. base, alongside, from
which

a Pinon 8 ins. diam. hrs

N. $73^{\circ} 21'$ E. 22 lbs. dist.

marked T. 23 N. R. 1 E. S. 13 B.T.

a cedar 8 ins. diam. hrs.

Subdivisions

chs. S. $32^{\circ} 36'$ E. 90 lks. dist. marked
 T. 23 N. R. 1 E. S. 24 B.T.
 A Pinon 8 ins. diam. lks
 N. $89^{\circ} 03'$ E. 70 lks. dist.
 marked T. 23 N. R. 1 E. S. 13 B.T.
 A cedar 10 ins. diam. lks
 N. $40^{\circ} 39'$ W. 92 lks. dist. marked
 T. 23 N. R. 1 E. S. 14 B.T.
 Land, mountainous and broken.
 Soil, rocky, 4th rate.
 No timber; cedar and pinon
 brush.
 Mountainous, or land covered
 with dense brush, 73 chs.

N. $89^{\circ} 57'$ E. on a random line
 bet. secs. 13 and 24.

Var. $14^{\circ} 47'$ East.

40.00 Set temporary 1/4 sec. cor.

Sp. 23 N. R. 1 E. (contd)

79.85 ^{cls} Intersect the E. body of Sp. 21 lks. N. of cor. To sees 13, 18, 19 and 24, which is a post firmly set and properly marked and witnessed as described in the field notes furnished by the Surveyor General.

Thence I run

N. $89^{\circ} 54'$ W. on a true line bet. sees. 13 and 24.

Var. $14^{\circ} 47'$ East, over rolling land, through scattering brush

13.00 Leave scattering brush, and enter dense brush.

39.92 Set a malpais stone $16 \times 12 \times 8$ ins. 11 ins. in the ground for $1/4$ sec. cor. marked $1/4$ on

Subdivisions

- chs. N. face, and raised a mound
of stone $1\frac{1}{2}$ ft. high, 7 ft.
base, alongside; from which
a Pinon 6 ins. diam. - hrs
S. $42^{\circ} 09' E.$ 31 lbs. dist. marked
 $\frac{1}{4}$ S. B.T.
- a cedar 10 ins. diam. hrs.
S. $63^{\circ} 47' W.$ 43 lbs. dist.
marked $\frac{1}{4}$ S. B.T.
- 43.00 Leave dense brush, and
enter opening.
- 53.20 Road from Williams to
Grant canon, course NW + S.E.
- 57.00 Enter dense brush.
- 79.85 The cor. to sec. 13, 14, 23 and 24.
Land, rolling.
Soil, rocky, 4th rate.
No timber.
Dense brush, 52.85 chs.

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21.

Sp. 23 N. R. 1 E. (cont'd)

chs. N. 0° W. bet. sec. 13 and 14.

Var. 14° 47' East.

over rolling land, through
dense brush.

40.00 Set a malpais stone 17x15x
12 ins. 12 ins. in the
ground, for 1/4 sec. ear-
marked 1/4 on W. face, and
raise a mound of stone
1 1/2 ft high, 2 ft. base, along-
side; from which
x Pinon 6 ins. diam. hrs.
N. 21° 33' E. 17 lbs. dist.
marked 1/4 B. B.T.
a Pinon 6 ins. diam. hrs
S. 78° 15' W. 11 lbs dist.
marked 1/4 B. B.T.

52.00 Leave dense brush.

56.10 Road from Williams to

Subdivisions

- chs. Grant Canon, course N. W + S. E
- 59.00 Enter dense brush.
- 80.00 Set a malpais stone $20 \times 16 \times 12$ ins. 15 ins. in the ground for cor. to sec. 11, 12, 13, and 14, marked with 4 notches on S. and 1 notch on E. edges, and raised a mound of stone $1 \frac{1}{2}$ ft. high, 2 ft. base, alongside, from which
- a cedar 16 ins. diam. -
 brs. N. $21^{\circ} 11'$ E. 52 lbs. dist.
 marked T. 23 N. R. 1 E. S. 12 B.T.
- a cedar 8 ins. diam. brs.
 S. $47^{\circ} 13'$ E. 23 lbs. dist.
 marked T. 23 N. R. 1 E. S. 13 B.T.
- a cedar 6 ins. diam. brs.
 S. $45^{\circ} 31'$ W. 87 lbs. dist.

Sp. 23 N.R. 1 E. (contd)

chs. marked T. 23 N.R. 1 E. S. 14 B.T.

a cedar 18 ins diam. hrs. N.

$13^{\circ} 27'$ W. 9 chs. dist. marked

T. 23 N.R. 1 E. S. 11 B.T.

Land, gently rolling.

Soil, stony, 4th rate

No timber.

Dense cedar and juniper brush 73 chs

S. $89^{\circ} 54'$ E. on a random line

Let. secs. 12 and 13-

Var. $14^{\circ} 47'$ East.

40.00 Let Temporary 1/4 sec. cor.

79.90 Intersect the E. bdy of the
Sp. 14 chs. S. of cor to secs.

7, 12, 13 and 18, which is a

post firmly set and properly
marked and witnessed as

described in the field

Subdivisions

chs. notes furnished by the
Surveyor General
Thence I run
west on true line
bet. sec. 12 and 13.

Var. $140^{\circ} 47'$ East
over rolling land, through
dense brush.

39.95 Set a malpais stone $14 \times$
 10×9 ins. 9 ins. in the
ground for $\frac{1}{4}$ sec. cor.
marked $\frac{1}{4}$ on N. face,
and raised a mound of
stone $1\frac{1}{2}$ ft. high, 2 ft. base
alongside; from which
a cedar 8 ins. diam. bro.
S. 88° 22' W. ± 2 lbs. dist.
marked $\frac{1}{4}$ S. B.T.
a cedar 6 ins. diam. bro.

Sp. 23 N. R. 1 E. (cont'd)

chs. N. $87^{\circ} 13'$ W. 44 chs. - dist
marked $1/4$ S. B.T.

79.90 The cor. to sec. 11, 12, 13 and 14.

Land, rolling.

Soil, stony, 4th rate.

No timber.

Dense brush, 79.90 chs.

N. $0^{\circ} 1'$ W. bet. sec. 11 and 12.

Var. $140^{\circ} 47'$ East.

over rolling land, through
dense brush.

40.00 Bet a Limestone $15 \times 11 \times 9$ ins
10 ins. in the ground for
 $1/4$ sec. cor. marked $1/4$ on
W. face, and raised a
mound of stone, $1/2$ ft. high,
2 ft. base, alongside,
from which

Subdivisions

chs. a Pinon 8 ins diam. hrs
 S $69^{\circ} 20' E$. 65 lks. dist.
 marked $1/4 S. B.T.$

a cedar 13 ins. diam. hrs
 N $22^{\circ} 31' W$. 106 lks. dist.
 marked $1/4 S. B.T.$

80.00 bet a Limestone $18 \times 16 \times 10$ ins
 12 ins. in the ground for
 cor. To see 1, 2, 11 and 12,
 marked with 5 notches on
 S and 1 notch on E. edges,
 and raised a mound of
 stone $1/4$ ft high, 2 ft. base,
 alongside, from which
 a cedar 9 ins. diam. hrs.
 N. $61^{\circ} 30' E$. 103 lks. dist.
 marked T. 23 N.R. 1 E. S. 1 B.T.
 a Pinon 12 ins. diam. hrs
 S. $37^{\circ} 9' E$. 21 lks. dist. marked

Sp. 23 N. R. 1 E (contd)

chs. T. 23 N. R. 1 E. S. 12 B.T.

a cedar 12 ins diam. hrs.

S. $43^{\circ} 27'$ W. 97 lbs. dist.

marked T. 23 N. R. 1 E. S. 11 B.T.

a Pinon 8 ins. diam. hrs.

N. $65^{\circ} 37'$ W. 85 lbs. dist.

marked T. 23 N. R. 1 E. S. 2 B.T.

Land, rolling.

Soil, stony 3rd and 4th rate

No timber

Scuse cedar and pinon

bunch, 80 chs.

May 13th, 1894

East on a random line

bet. secs. 1 and 12.

Var. 140 47' East.

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

79.91 Intersect the E. bdy of Sp.

Subdivisions

chs. 7 lks. S. of cor. To sec.
 1, 6, 7 and 12, which is a
 post, firmly set and properly
 marked and witnessed as
 described in the field
 notes furnished by the
 Surveyor General.
 Thence I run
 S 89° 57' W. on a true line
 bet sec. 1 and 12.

Var. 14° 47' East.
 over rolling land, through
 scattering brush.

39.95 bet a Limestone 14 x 12 x 10
 ins. 9 ins. in the ground
 for 1/4 sec. cor. marked 1/4
 on N. face, and raised a
 mound of stone 1 1/2 ft. high,
 2 ft. base, alongside;

Sp. 23 N. R. 1 E (contd)

- chs. from which
 a Pinon Pine, diam. less
 S. 79° 3' E. 186 sks. dist. marked
 1/4 S. B.T.
 No other trees within limits.
- 61.00 Enter dense brush
- 79.91 The cor. to secs. 1, 2, 11 and 12.
 Land, rolling-
 Soil, stony, 3rd and 4th rate.
 No timber.
 Dense brush, 1 P. 91 chs.
- N. 0° 1' W. on a random line
 bet. secs. 1 and 2.
 Var. 140 + 7 East.
- 40.00 Set temporary 1/4 sec. cor.
- 80.07 Intersect N. bdy of the Sp. 15.
 chs. W of cor. to secs. 1, 2,
 35 and 36, as hereinbefore

Subdivisions

chs. described.

Thence I run

S 0° 05' W. on a true line
bet. sec. 1 and 2.

Var. 140 47' East.

over rolling land, through
dense cedar and prairie bush.

17.00 Leave bush and enter open land.

40.07 Get a limestone 16 x 10 x 9 ins.

11 ins. in the ground for

1/4 sec. cor. marker 1/4 on

W. face, dug pits 18 x 18 x 12

ins. N. and S. of stone, 5 1/2

ft. dist. and raised a

mound of earth 1 1/2 ft.

high, 3 1/2 ft. base, along side.

64.00 Enter dense bush.

80.07 The cor. to sec. 1, 2, 11 and 12.

Land, rolling.

Sp. 23 N. R. 1 E. (contd)

cho 500, stony, 2nd rate.

No timber.

Dense cedar and pinon
brush, 33.07 cho.

From the cor. to secs. 2, 3, 34
and 35, on the S. bdy of Sp.
as heretofore described

From

N. 0° / W. bet. secs. 34 and 35.

Var. $14^{\circ} 47'$ East.

Over rolling land.

40.00

Set a maepris stone $15 \times$
 16×17 ins. 17 ins. in the
ground for $1/4$ sec. cor-
marked $1/4$ on W. face, and
raised a mound of stone
 $1/2$ ft. high, 2 ft. base,
alongside, from which

Subdivisions

- chs. a cedar 10 ins. diam. hrs.
 N. 61° 13' E. 285 lbs. dist.
 marked $\frac{1}{4}$ S. B.T.
- a cedar 8 ins. diam. hrs.
 N. 73° 30' E. 297 lbs. dist. marked
 $\frac{1}{4}$ S. B.T.
- 80.00 a malpais rock in place
 2 x 1 x 1 ft. ^{almo} ~~ground~~ which I
 mark with a cross (+)
 at exact cor. point for
 cor. to secs. 26, 27, 34 and
 35, with 1 notch on S. and
 2 notches on E. edges, and
 raised a mound of
 stone $\frac{1}{2}$ ft. high, 2 ft.
 base, alongside; from which
 a cedar 6 ins. diam. hrs.
 N. 67° 19' E. 30 lbs. dist.
 marked T. 23 N. R. 1 E. S. 26 B.T.

Sp. 23 N. R 1 E. (contd)

- cho a cedar 12 ins diam. - hrs.
 S. $45^{\circ} 15'$ E. 62 lks. dist
 marked T. 23 N. R 1 E. S. 35 B.T.
 a cedar 26 ins. diam. - hrs.
 S. $43^{\circ} 47'$ W. 83 lks. dist.
 marked T. 23 N. R. 1 E. S. 34 B.T.
 a cedar 6 ins. diam. hrs.
 N. $82^{\circ} 19'$ W. 109 lks. dist.
 marked T. 23 N. R 1 E. S. 27 B.T.
 a deserted board house hrs
 N. $24^{\circ} 30'$ W. about $\frac{1}{4}$ mile dist

Land rolling

Soil, stony, 3rd rate.

No timber, scattering cedar
 and pinon brush.

N. $89^{\circ} 57'$ E. on a random line
 bet. secs. 26 and 35.

Var. $14^{\circ} 47'$ East.

Subdivisions

chs

40.00 bet temporary $\frac{1}{4}$ sec cor.79.87 Intersect the N + S. line
17 lks. S. of cor. to secs.
25, 26, 35 and 36.

Thence I run

S $89^{\circ}50'$ N. on a true line
bet. secs. 26 and 35.Var. $14^{\circ}47'$ East.

over rolling land.

39.93 bet a maelpais stone
 $18 \times 16 \times 10$ ins. 12 ins. in
the ground for $\frac{1}{4}$ sec. cor.
marked $\frac{1}{4}$ on N. face, and
raised a mound of stone
 $1\frac{1}{2}$ ft high, 2 ft. base,
alongside, Pite mi-
practicable79.87 The cor. to secs. 26, 27, 34 + 35.
Land, rolling.

20. 23 Ft. R. E. (contd)

cha Soil rocky, 4th rate.
No timber, scattering brush.

No. 1' W. bet. sec. 26 and 27.

Var. 14° 47' East.

over rolling land.

12.00 canon, 80 ft. deep, course E.

40.00 Set a malpais stone 18 x 14
x 10 ins. 12 ins. in the
ground for 1/4 sec. cor.
marked 1/4 on W. face,
and raised a mound of
stone 1 1/2 ft high, 2 ft.
base, along grade. Pite
impracticable.

80.00 Set a malpais stone
24 x 20 x 16 ins. 18 ins. in
the ground for cor. to
sec. 22, 23, 26 and 27.

Subdivisions

chs marked with 2 notches on
 S. and E. edges, and raised
 a mound of stone $1\frac{1}{2}$ ft
 high, 2 ft base, alongside
 from which,
 a cedar 4 ins. diam.
 bearing N. $50^{\circ} 14'$ W. 160 lbs. dist
 marked T. 23 N. R. 1 E. S. 22 B.T.
 a cedar 6 ins. diam. bearing
 S. $63^{\circ} 32'$ W. 242 lbs. dist
 marked T. 23 N. R. 1 E. S. 27 B.T.
 No other trees within limits.
 Land, rolling.
 Soil, stony, 3rd rate.
 No timber, scattering cedar
 and pinon bush.

At this car I take an
 observation on the Sun

Sp. 23 N. R. 1 E. (cont'd)

ch. and find my instrument
in perfect adjustment,
and the variation to be
14° 47' East

N. 89° 50' E. on a random line
bet. secs. 23 and 26.

Var. 14° 47' East

40.00 Set temporary 1/4 sec. cor.

79.85 Intersect N. and S. line 20
chs. N. of cor. to secs. 23, 24,
25 and 26.

Thence I run

S 89° 59' W. on a true line
bet. secs. 23 and 26.

Var. 14° 47' East.

Over broken land.

Descend 100 ft.

9.00 Foot of descent, small ravine,

Subdivisions

- chs course N.
 ascent 100 ft.
- 18.00 Top of ascent.
 Thence over rolling land,
 through dense brush.
- 39.92 Set a limestone, $8 \times 14 \times$
 11 ins. 12 ins. in the
 ground for $\frac{1}{4}$ sec. cor-
 marked $\frac{1}{4}$ on N. face,
 and raised a mound
 of stone, $1\frac{1}{2}$ ft high,
 2 ft. base, alongside;
 from which
 a Pinon 8 ins. diam. br.
 S. $47^{\circ} 19'$ N. 47 lks. dist.
 marked $\frac{1}{4}$ S. B. T.
 a Pinon 10 ins. diam. br.
 N. $33^{\circ} 15'$ N. 33 lks. dist.
 marked $\frac{1}{4}$ S. B. T.

Ip 23 N. R 1 E. Sect 1

- cho.
63.00 Leave dense brush.
79.85 The cor. to sec. 22, 23, 26 & 27.
Land, rolling.
Soil, stony, 3rd rate.
No timber.
Dense brush, 45 cho.

No. 1 W. bet sec. 22 and 23.

Var. 140 47' East.

over rolling land.

- 3.50 Enter dense brush.
20.00 Small ravine, course E.
30.00 Ravine, 2 ft. deep, course E.
Leave dense brush.
40.00 Set a malpais stone 18x14x
10 ins 12 ins in the ground
for 1/4 sec. cor. marked 1/4
on W. face, and raised a
mound of stone 1 1/2 ft high,

Subdivisions

- chs. 2 ft. base, alongside. Pits impracticable
- 80.00 a malpais rock in place $2 \times 1\frac{1}{2} \times 1\frac{1}{2}$ ft. above ground, which I mark with a cross (+) at exact cor. point for cor. to res. 14, 15, 22 and 23, with 3 notches on S. and 2 notches on E. edges, and raised a mound of stone $1\frac{1}{2}$ ft. high, 2 ft. base, alongside from which
- a Pinon 9 ins. diam. - has N. $20^{\circ} 11' E.$ 220 lbs. dist marked T. 23 N. R. 1 E. S. 14 B.T.
- a cedar 8 ins. diam. - has S. $24^{\circ} 25' E.$ 230 lbs. dist marked T. 23 N. R. 1 E. S. 23 B.T.

Sp. 23 N. R. 1 E. (cont'd)

chs a Pinus 12 ins. diam. hrs
N. $130^{\circ}15'$ W. 210 chs. dist.

marker T. 23 N. R. 1 E. b. 15 B.T.

No other trees within limits.

Land, rolling.

Soil, stony, 3rd rate.

No timber.

Dense cedar, and pine

brush, 26.50 chs.

N. $89^{\circ}59'$ E. on a random line
bet. secs. 14 and 23.

Var. $140^{\circ}47'$ East

40.00 Set temporary $1/4$ sec. cor.

79.86 Intersect N and S. line, 27 chs
S. of cor. to secs 13, 14, 23 & 24.
Thence I run

S $89^{\circ}47'$ W. on a true line
bet. secs. 14 and 23.

Subdivisions

chs

Var $14^{\circ} 47'$ East.over calling land through
dense brush.39.93 Set a line stone $6 \times 1\frac{1}{4} \times 12$ ins
11 ins. in the ground for
 $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$.on N. face and raised
a mound of stone $1\frac{1}{2}$ ft
high, 2 ft. base, alongside,
from whicha Pinon 8 ins diam. bs.
N. $67^{\circ} 30'$ W. 13 lks. dist.marked $\frac{1}{4}$ S. B.T.a Pinon 8 ins diam. bs.
S. $71^{\circ} 45'$ W. 17 lks. distmarked $\frac{1}{4}$ S. B.T.41.00 Descend 450 ft. into cat-
aract creek,

53.00 Bed of creek (dry) course N.W.

Ip 23 N.R. 1 E. (contd)

- cho ascent 300 ft.
- 61.00 Top of ascent, Leave dense bush.
Thence on rolling land.
- 79.86 The cor. to secs. 14, 15, 22 & 23 -
Land, rolling and mountainous.
Soil, stony, 3rd rate.
Timber, some scattering pine
along creek.
Mountainous, or land covered
with dense bush, 61.00 cho.

N. 0° 1' W bet. secs. 14 and 15.

Var. 14° 47' East.

Over broken land.

Descend gradually, 200 ft.
along W. side of cataract creek
which is about 3 cho to the
East and has. N. 3° W.

Subdivisions

- | Chs | |
|-------|--|
| 38.40 | Ascend 250 ft. into cataract creek, Enter dense bush. |
| 40.00 | Set a malpais stone 18x12x10 ins. 12 ins in the ground for 1/4 sec. cor. marked 1/4 on W. face, and raised a mound of stone 1 1/2 ft high, 2 ft. base, alongside, from which a cedar 12 ins. diam - to S. 140/5' W. 80 lbs. dist. marked 1/4 S. B.T. |
| | a cedar 8 ins. diam - to N. 30 30' W. 90 lbs. dist. marked 1/4 S. B.T. |
| 45.00 | Leave dense bush. |
| 45.50 | Bes of creek, course N- |
| 61.00 | Leave creek, which to N.E. ascend 150 ft. |

Sp. 23 N.R. 1 E. (cont'd)

- 66.00 Top of ridge, course E+W.
Descent 150 ft. into creek.
- 71.00 Set of creek, (dry) course N.W.
ascend 350 ft.
- 78.00 Top of ascent.
Enter dense cedar and juniper brush.
- 80.00 Set a lime stone $20 \times 12 \times 12$
ins. 15 ins. in the ground
for cor to sec. 10, 11, 14 and
15, marked with 4 notches
on S. and 2 notches on
E. edges, and raised a
mound of stone $1\frac{1}{2}$ ft.
high, 2 ft. base, alongside,
from which
a Pinon 10 ins. diam. bis.
N. $63^\circ 15'$ E. 87 lbs. dist.
marked T. 23 N.R. 1 E. S. 11 B.T.
a Pinon 8 ins. diam. bis.

Subdivisions

chs. S. $57^{\circ} 30' E$, 96 lks. dist.
 marked T. 23 N. R. 1 E. S. 14 B.T.
 a cedar 10 ins. diam. hrs
 S. $43^{\circ} W$, 85 lks. dist.
 marked T. 23 N. R. 1 E. S. 15 B.T.
 a cedar 9 ins. diam. hrs.
 N. $57^{\circ} 30' W$, 106 lks. dist.
 marked T. 23 N. R. 1 E. S. 10 B.T.
 Land, mountainous.
 Soil, rocky, 4th rate.
 Timber, scattering pine
 on creek.
 Mountainous land, 80 chs.
 May 14, 1894.

N. $89^{\circ} 47' E$, on a random line
 bet. secs. 11 and 14.

Var. $14^{\circ} 47'$ East.

40.00 Set temporary $1/4$ sec. cor.

Sp. 23 N. R. 1 E. Kantol

chs

79.90 Intersect the N. and S. line
17 lks. N. of car, to sees 11, 12,
13 and 14.

Thence I run

S. $89^{\circ} 54'$ W. on a true line
bet. sees 11 and 14.

Var. $14^{\circ} 47'$ East.

over rolling land through
scattering brush.

26.65 Road from Williams to
Grand canon, course N.W. + S.E.

79.00 Enter dense cedar and pinon
brush.

39.95 Set a malpais stone, $8 \times$
 12×10 ins. 12 ins. in the
ground for $\frac{1}{4}$ sec. car -
marked $\frac{1}{4}$ on N. face,
and raised a mound of
stone $1\frac{1}{2}$ ft. high, 2 ft.

Subdivisions

chs. base, alongside, from
which
a cedar 6 ins diam. hrs
S. $47^{\circ} 30'$ W. 21 lks. dist.
marked $1/4$ S. B.T.
a Puiuan 10 ins diam.
hrs. N. 21° E. 37 lks. dist
marked $1/4$ S. B.T.

79.90. The cor. to secs. 10, 11, 14 and 15.
Land, rolling.
Soil, stony, 3rd rate.
No timber.

Dense puiuan and cedar
brush, 50.90 chs.

N. $0^{\circ} 1'$ W. bet. secs. 10 and 11.
Var. $14047'$ East.
over broken rolling land,
through dense cedar + puiuan

Sp 23 N.R. 1 T. (Contd)

- obs. brush.
- 9.00 ascent 75 ft.
- 17.00 Top of ridge, course E and W.
Descent 90 ft.
- 23.00 Foot of descent
- 40.00 bet a malpais stone
15 x 14 x 11 ins. 10 ins. in
the ground for $\frac{1}{4}$ sec.
cor. marked $\frac{1}{4}$ on W.
face and raised a
mound of stone $\frac{1}{2}$ ft
high, 2 ft. base, along-
side; from which
a cedar 9 ins. diam. has.
S. 130° E. 23 lks. dist, marked
 $\frac{1}{4}$ S.B.T.
- a Pinon 11 ins. diam. has.
N. 210° W 19 lks. dist.
marked $\frac{1}{4}$ S.B.T.

Subdivisions

chs

80.00

Set a limestone $18 \times 14 \times$
 10 ins. 12 ins. in the
ground for cor. to sees
 $2, 3, 10$ and 11 , marked with
 5 notches on $S.$ and 2
notches on $E.$ edge,
and raised a mound of
stone $1\frac{1}{2}$ ft. high, 2 ft
base, along side, from
which
a cedar 9 ins. diam. br.
 $N. 45^{\circ} 15' E.$ 104 lks. dist.
marked $T. 23 N. R. 1 E. S. 28 T.$
a cedar 6 ins. diam. br.
 $S. 37^{\circ} E.$ 27 lks. dist.
marked $T. 23 N. R. 1 E. S. 11 B. T.$
a cedar 7 ins. diam. br.
 $S. 47^{\circ} 30' W.$ 109 lks. dist.
marked $T. 23 N. R. 1 E. S. 10 B. T.$

Sp. 23 N. R. 1 E. (cont)

chs. a Pinon 8 ins. diam. hrs.
 N. $37^{\circ} 30'$ W. 96 lks. dist.
 market T. 23 N. R. 1 E. S. 3 B.T.
 Land, rolling.
 Soil, stony, 3rd rate.
 No timber
 Dense cedar, and pinon
 brush, 80 chs.

N. $89^{\circ} 54'$ E. on a random line
 bet. secs. 2 and 11.

Var. $14^{\circ} 47'$ East

40.00 Set temporary $1/4$ sec. cor

79.88 Intersect N. and S. line
 at the cor. to secs. 1, 7
 11 and 12

Thence I run

S. $89^{\circ} 54'$ W. on a true line
 bet. secs 2 and 11.

Subdivisions

chs

Var. $14^{\circ} 41'$ East.over rolling land, through
dense bush.

39.94

cut a limestone $18 \times 16 \times 12$
ins. 12 ins. in the ground
for $1/4$ sec. cor. marked $1/4$
on N. face, and raised
a mass of stone, $1 1/2$ ft.
high, 2 ft. base, alongside.
from which
a cedar 10 ins. diam. hrs.
N. 62° W. 85 lbs. dist.
marked $1/4$ S. B. T.

a Pinon 7 ins. diam. hrs.
S 63° E. 67 lbs. dist. marked
 $1/4$ S. B. T.

71.40 Road from Williams to
Grand Canyon, course N. W. & S. E.

79.88 The cor. to secs. 2, 3, 10 and 11.

Sp. 23 N.R. 1 E. (cont'd)

Land, rolling.

Soil, stony, 3rd rate.

No timber

Dense cedar, and pinon
bush, 79. 88 chs.N. $0^{\circ} 1' W.$ on a random line
bet. secs. 2 and 3.Var. $14^{\circ} 47' E.$ 40.00 Bet temporary $1/4$ sec. cor.

80.09 Intersect N. body of the Sp.

13 chs. W. of cor. to secs.

2, 3, 34 and 35, as hereinbefore
described.

Thence I run

S. $0^{\circ} 5' W.$ on a true line

bet. secs. 2 and 3.

Var. $14^{\circ} 47' East$
over rolling land, through

Subdivisions

- chs dense brush.
- 40.09 Set a limestone $14 \times 9 \times 8$ ins. 9 ins. in the ground for $\frac{1}{4}$ sec. cor - marked $\frac{1}{4}$ on N. face, and raised a mound of stone $1\frac{1}{2}$ ft. high, 2 ft. base, alongside; from which a Pinon 9 ins diam - hrs. S. 21° E. 69 lbs. dist marked $\frac{1}{4}$ S. B.T.
- a cedar 11 ins. diam - hrs. N. 83° W. 17 lbs. dist marked $\frac{1}{4}$ S. B.T.
- 80.09 The cor. to secs 2, 3, 10 and 11. Land, rolling. Soil, rocky, 3rd rate. No timber
- Dense cedar and pinon brush 80.09 chs.

Sp. 23 N-R 1 E. (contd.)

obs. From the cor to sec 34, 33
and 34, on the S. ldy of Sp
as hereinbefore described
I run

N. $0^{\circ} 2'$ W. bet. sec 33 and 34.

Tar. $14^{\circ} 47'$ East.

Over rolling land, through
dense brush -

29.00 Leave dense brush, enter
scattering brush -

40.00 Set a malpais stone $18 \times 16 \times$
 12 ins 12 ins. in the ground
for $1/4$ sec. cor. marked $1/4$ on
W. face, and raised a
marker of stone $1 1/2$ ft high
 2 ft. base, alongside, from
which

a cedar $2 1/2$ ins diam. bro.

N. 62° W. 160 lks. dist.

Subdivisions

- chs. marked $\frac{1}{4}$ S. B.T.
 a cedar 8 ins. diam. hrs.
 E. 270 lbs. dist. marked
 $\frac{1}{4}$ S. B.T.
- 80.00 a malpais stone in place
 $2 \times 1\frac{1}{2} \times 1$ ft. above ground
 which I mark with a
 cross (+) at exact cor.
 point for cor. to sec. 27,
 28, 33 and $3\frac{1}{2}$, with 1 notch
 on S and 3 notches on E.
 edges, and raised a
 mound of stone $1\frac{1}{2}$ ft. high
 2 ft. base, alongside, from
 which
 a cedar 16 ins. diam. hrs
 N. $71^{\circ} 15'$ W. 89 lbs. dist.
 marked T. 23 N.R. 1 E. S. 28 B.T.
 a cedar 14 ins. diam. hrs.

Sp. 23 NR 1 E. (contd)

cho. S. $67^{\circ}30'$ N. 93 lks. dist.
market T. 23 NR 1 E. S. 33 BT.
No other trees within limits.

Land, rolling.

Soil, stony, 3rd rate.

No timber

Dense cedar and pinon
brush, 29 cho.

N. $89^{\circ}58'$ E on a random line
bet. secs. 27 and 34

Var. $14^{\circ}47'$ East.

40.00 Bet temporary $1/4$ sec. cor.

79.83 Intersect N. and S. line
19 lks. S. of cor. to secs.

26, 27, 34 and 35.

Thence I run

S. $89^{\circ}50'$ N. on a true line
bet. secs. 27 and 34

Subdivisions

chs Enter dense brush.

80.00 Set a line stone $16 \times 10 \times 10$ ins. 11 ins. in the ground for cor. to sec. 21, 22, 27 and 28, marked with 2 notches on S. and 3 notches on E. edges, and raised a mound of stone $1\frac{1}{2}$ ft high, 2 ft. base, alongside, from which

a cedar 9 ins. diam. hrs N. $31^{\circ} 30' E.$ 196 lbs. dist marked T. 23 N. R. 1 E. S. 22 B.T.

a cedar 8 ins. diam. hrs S. $61^{\circ} 30' E.$ 163 lbs. dist marked T. 23 N. R. 1 E. S. 27 B.T.

a cedar 10 ins. diam. hrs S. $71^{\circ} W.$ 121 lbs. dist marked T. 23 N. R. 1 E. S. 28 B.T.

Sp. 23 N. R. 1 E. (contd)

cho. a cedar 9 ins. diam. brs.
 S. 17° E. 96 lks. dist. marked
 T. 23 N. R. 1 E. S. 27 B.T.

Land, rolling
 Soil, stony 3rd rate.

No timber

Scarcely cedar and pinon
 brush, 21 cho.

May 15th, 1894.

N. 89° 50' E on a random line
 bet. sec. 22 and 27.

Tan. 14° 47' East

40.00 Bet temporary 1/4 sec. cor

79.88 Intersect N. and S. line

15 lks N. of cor to sec.

22, 23, 26 and 27.

Thence I run

S. 89° 56' W. on a true line

Subdivisions

- chs. bet. sec. 27, and 27.
Var. 14⁴⁷ East
Even rolling land
- 2.00 Enter dense brush.
- 10.00 Leave brush.
- 39.94 Set a malpais stone 17 x
14 x 11 ins. 12 ins. in the
ground for 1/4 sec. cor.
marked 1/4 on N. face, and
raised a mound of stone
1 1/2 ft. high, 2 ft. base,
alongside. Pits imprac-
ticable.
- 79.88 The cor. to sec. 21, 22, 27 & 28.
Land, rolling.
Soil, stony, 3rd rate.
No timber.
Dense brush, 8 chs.

Sp 23 NR 1 E. (cont'd)

clo N. 0° 2' W. bet. sec. 21 and 22.

Var. 14° 47' East.

over broken land, through
dense cedar and pinon brush.

9.00 Wash, 2 ft. deep, course N.E.
ascent 75 ft.

15.00 Top of ridge, course N.W. & S.E.
Descent 75 ft.

20.00 Foot of descent

Thence over rolling land.

40.00 Get a limestone 18 x 12 x 10 ins
12 ins. in the ground for
1/4 sec. cor. marked 1/4 on
W. face, and raised a
mound of stone 1 1/2 ft high,
2 ft. base, alongside,
from which
a Pinon 6 ins. diam. has
S. 37° W. 109 lbs. dist. marked

Subs. T. 23 N. R. 1 E. contd.

- chs $\frac{1}{4}$ S. B.T.
 a Pinon 6 ins. diam. hrs
 N. $64^{\circ}30'$ W. 108 lbs. dist.
 marked $\frac{1}{4}$ S. B.T.
- 80.00 Set a limestone $16 \times 12 \times 9$
 ins. 11 ins. in the ground
 for cor. to secs. 15, 16, 21
 and 22, marked with 3
 notches on S. and E. edges,
 and raised a mound of
 stone $1\frac{1}{2}$ ft high, 2 ft.
 base, alongside; from
 which
 a Pinon 9 ins. diam. hrs
 N. $48^{\circ}30'$ E. 80 lbs. dist.
 marked T. 23 N. R. 1 E. S. 15 B.T.
- a Pine 6 ins. diam. hrs.
 S. 69° E. 31 lbs. dist.
 marked T. 23 N. R. 1 E. S. 22 B.T.

Continued Book 452
Concluded Book 451

BOOK 456