

RETRACEMENT

S. AND W. B. DY. T₂₄ N; R₄ E.

1441

Book G.

BOOK 1441

4-671

FIELD NOTES
GENERAL LAND OFFICE.

No. 1441

files nos 11/03

refiles Mar. 7/04 rewritten.

compared with old notes JDA
& slms.

den. sheets C.M. 12/12/03

Comp. L.S. & C.M. 12/18/03

cornering checked Wilkes.

platted JDA.

checked Sects - lat. - closures and
areas. JDA.

copies C.M. Mar. 9/04

Comp. C.M. & slms Mar 9/04

Sects checked. 3/31/04 J.L.S. JDA.

No. 1441

BOOK "1441"

Field Notes
of the retracement of the
South and West Boundaries
of
Township No. 24 North Range No. 4 East
of the
Gila and Salt River
Base and Meridian
in the
Territory of Arizona,
as surveyed by
Marvin Caudle
U.S. Deputy Surveyor
Under his Contract No. 97,
dated June 30, 1902.

Survey commenced July 8, 1903.
Survey completed July 11, 1903.

BOOK 1441

4-674.

Township 29 N R. 4 E

98	6	5	4	3	2	1
95	7	8	9	10	11	12
99	18	17	16	15	14	13
91	19	20	21	22	23	24
28	30	29	28	27	26	25
25	31	32	33	34	35	36
22	18	16	13	11	7	

PRELIMINARY OATHS OF ASSISTANTS.

We, C. E. Brashers BOOK 1441

and Herman Schulz
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 South and West Boundaries of Town
ship Twenty four North Range Four
East.

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

C. E. Brashers, Chainman.

Herman Schulz, Chainman.

_____, Chainman.

_____, Chainman.

Subscribed and sworn to before me this 8th day
of July, 1903.

Marion Gaudle
Notary Public.
U.S. Deputy Surveyor

[SEAL.]

We, Joseph H. Lewees, Arthur I. Burns
and Milton Farnsworth

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 South and West Boundaries
of Town ship Twentyfour North
Range Four East

BOOK 1441

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

Joseph H. Lewees, Flagman.
Arthur I. Burns, Axman.
Milton Farnsworth, Axman.
_____, Axman.

Subscribed and sworn to before me this 8th day
of July, 1903.

Maurice Gaudle
U.S. Deputy Surveyor
Notary Public.

Retracement of the S. Bdy. of 3^d
T. 24 N. R. 4 E.

BOOK 1441

Survey commenced July 8, 1903,
and executed with a W. and S. E.
Gurley light mountain transit
(not numbered) with solar
attachment. The horizontal
limb is provided with two
double verniers placed opposite
to each other, reading to
single minutes of arc.
The verniers of the latitude
are read to single minutes
and ten seconds, the instru-
ment being provided with
Jones' patent latitude arc; the
vernier of the declination
arc, reads to 30" of arc.
The instrument was examined
tested on the true meridian
at Phoenix, Arizona, found

4 Retirement of the S. Bdy of
BOOK 1441 T 24 N R 4 E

correct and was approved
by the Surveyor General for
Arizona, Sept. 19, 1902.

Examine the adjustments
of the instrument, and
detect no errors; then to
test the solar apparatus
by comparing its indications
resulting from solar
observations made during
A.M. and few hours, with
 α meridian determined
from observations on Polaris.
I proceed as follows:

At the corner of Tps. 23 and 24 N.
Rs. 4 and 5 East, latitude
 $35^{\circ}22'48.2''$ N; longitude
 $111^{\circ}53'33.6''$ W; at 0^h24^m
A.M., but, I observe Polaris

at eastern elongation, in accordance with the manual of instructions, and mark a point in the line thus:

determined by a tack on a plug set firmly in the ground 5.00 chs. N. of my station. At 6^h 30^m am, I lay off the azimuth of Polaris $1^{\circ} 29'$ to the west, and mark a point in the meridian thus:

determined by a tack on a plug set firmly in the ground 5.00 chs. N. of my station.

At 8^h am, but, set off $35^{\circ} 22'$ $50''$ N. on the latitude arc; $22^{\circ} 35'$ N. on the decl. arc; and determine with the solar a meridian,

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Retacement of the S. Bely
of T24N R4E

and mark a point thus determined by a tack on the plug already set. This point falls 0.3 ins east of the meridian established by the Polaris observation.

At 4 P.M. l, w, h. I set off $35^{\circ}22'50''$ N. on lat. arc $22^{\circ}33'$ N on decl. arc, at this cor, and with the solar determine a true meridian and mark a point thus determined by a tack on a plug already set. which falls about 0.4 ins west of the mark determined by the Polaris observation.

The solar apparatus by

Retracement of the S Bdy
of T24NR4E

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A.M. and P.M. observations defines positions for meridians respectively about $0'16''$ east and $0'21''$ west of the meridian established by Polaris observation. Therefore I conclude the adjustments of the instrument are satisfactory.

The magnetic bearing of the true meridian is $N. 14^{\circ} 35' W.$ The angle thus determined gives the mag. decl $N. 14^{\circ} 35' E$

From the cor. line to fore described I run

West on a random line
bet. secs 1 and 36

Re-survey of the S. Body
of T24 NR4E

BOOK 1441

- Over mountainous land
through pine timber.
- 2.00 Drain course north.
- 8.00 Ascend steep E. slope
of ridge.
- 14.00 Top of 200 ft. ascent. Ridge
bears N. and S. I hence
over top to
- 20.00 Ascend E. slope
- 25.00 Ridge 500 ft high, bears
N. and S. descend W. slope.
- 39.77 $\frac{1}{4}$ sec. cor. bears N. 20 lks.
dist. which is a malpais
stone 18 x 10 x 4 ins. set in
mound of stone mksd
as described by surveyor
general. There being no
bearing trees I mark two
as follows.

Retracement of the S. Bdy
of T24NR4E

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A pine, 8 ins in diam. bears
N. 3° 10' W. 81 lks dist mkd # 536 BT

A cedar, 8 ins. in diam bears S.
33° 05' W. 82 lks. dist mkd # 31 BT

The true course and length
of this line is N. 89° 43' W
39.77.

I continue line West from
this corner.

24.63 Foot of 400 ft. des cent bears N.
and S. Thence over nearly
level land through scat-
tering pine timber and
buck brush.

40.21 Old cor. of secs. 1, 2, 35 and
36 bears N 32 lks. dist.
which is a malpais
stone loosely set in
mound of stone, mkd

with 1 groove on E. face;
I mark another as follows
- Set a malpais stone
16x12x6 ins. 12 ins. in the
ground for cor. of secs. 1, 2
35 and 36 m'd with 1 groove
on E and and 5 grooves on W.
face; raise a mound of stone
3 ft. base. 2 1/2 ft high W. of cor
from which
A pine. 24 ins in diam. bears
N. 15° 18' E. 170 lks. dist m'd T 24
NR 4 E S 36 BT, no other trees indicated
The true course and distance
of this line is N. 89° 38' W 40.2 lks
Level, mount airrows and rolling
Soil, stony, and sand soil and 4ch rate
Timber pine
Mount airrows land or land

Retracement of the S. Bdy.
of T24 N R4E

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covered with timber ~~79.55~~^{79.98} chs.

West on a random line
bet. secs. 2 and 35.

Over rolling land through scat-
tering pine timber and oak brush.

24.00 Enter heavy pine timber

36.00 Ravine, course S. Enter mountain-
ous land. Ascend.

39.88 Old $\frac{1}{4}$ sec. cor. bears N. 26 lks.
dist. I find a malpais
stone 14x8x9 ins. loosely set.
mkd as described by surveyor
general. I set stone firmly
in ground and repair mound
of stone N. of cor.

The true course and bearing
of this line is N. 89° 38' W 39.88 chs
I continue line West from this cor.

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Retracement of the S Bdy
of T24 NR & E

BOOK 1441

- 10.12 Ridge bears NE and S.W. Top
of 250ft. ascent. Thence over
top of ridge.
- 17.72 Ravine course S.E.
- 34.12 Begin steep descent over W. slope
of ridge
- 40.12 Intersect old cor. of secs. 2, 3,
34 and 35 which is a real
apais stone 24x6x8 ins.
on top of ground marked
and witnessed as described
by surveyor general. I set
stone 18 ins. in ground
land mountainous.
Soil. stony and sandy 3 rd and
4th rate
Timber. pine.
Land covered with timber so cbs
July 8 1903. at this cor. I set

Retracement of the S. Bdy
of T24NR4E

BOOK 1441
L3

off $22^{\circ}33'80''$ N. on decl. arc
and at $12^h4'39''$ P.M. l. m. t.
above the sun on the meridian
The resulting latitude is 35°
 $22'30''$ which is the latitude
nearly.

West on a random line
bet. secs. 3 and 34,

Descend over mountainous
land through pine timber.

11.00 Foot of 300 ft. desc. cont. bears
N. and S. Thence over nearly
level land. Through dense
buck brush and weeds

26.00 A rain. course S. E.

34.50 Road bears N. W. and S. E.

39.40 Old $\frac{1}{4}$ sec. cor. bears N. 10 lbs dist
which is a malopsis stone

Retracement of the S. Bdy.
of T24 NR4E

10x8x6 ins. loosely set in mound
of stone. marked as described
by surveyor general. I mark
another as follows. Set a
malpais stone 10x10x6 ins
11 ins. in the ground for $\frac{3}{4}$
sec. cor. marked $\frac{3}{4}$ on N. face;
raise a mound of stone 2 ft.
base, 12 ft. high N. of cor.

Pits impracticable for rec. 3 only.

The true course and length of this line
is N. 89° 5' W. 37.40 chs.
West, from old cor.

92.00

Ravine 1 ch. wide course S. E.

40.08

Old cor. of secs. 3, 4, 33 and 34
bears N. 40 lbs. dish. which is
a malpais stone 12x10x4 ins
above ground marked and
witnessed as described by
surveyor general.

Retracement of the S. Bdy
of T24NR4E

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The true course and length
of this line is N. $89^{\circ} 26' W$
40.08 chs.

Land, rolling.

Soil, stony, 4th rate.

Timber, pine 11 chs.

Mts land or land covered
with timber and dense
under growth 79.48 chs.

As the length of the line
bet. secs. 3 and 34 falls short of
80.00 chs. by more than 50 lbs.
it becomes necessary to establish
a corner common to secs. 33 and
34 at a point 80.00 chs dist
from cor. of secs. 2, 3, 34 and 35
I therefore proceed as follows.
West on a random line bet secs.

Retracement of the S. Bdy.
of T24 NR4E

BOOK 1441

4 and 33.

0.52 Set temp. cor. of secs. 33 and 34

40.33

Old $\frac{1}{2}$ sec. cor. bears N. 10 lbs. dist.

which is a malpais stone

12x10x5 ins. above ground marked

and witnessed as described

by surveyor general.

The true course and length

of this line is N. $89^{\circ}51'W$ 40.33 chs.

Thence I run

S $89^{\circ}51'E$ on a true line bet. secs.

4 and 33.

Over rolling land

Through dense buck brush & weeds

39.81

Set a malpais stone 22x12x9 ins.

17 ins. in the ground for cor.

of secs. 33 and 34 mkd with

3 grooves on E. and W. faces; raise

a mound of stone 2 ft. base 1 1/2 ft.

Retracement of the S. Body
of T24NR4E

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BOOK 1441

high N. of cor. Pits unpract-
icible.

40,33

The old cor. of secs. 3, 4, 33 and
34 I change to refer to secs
3 and 4 only.

Land rolling

Soil, stony 4th rate.

Timber, scattering pine.

Dense brush and under growth
40,33 chs.

I return to $\frac{1}{4}$ cor. bet. secs. 4 and
33 and continue line West.

2,50

Dry creek 2 chs wide course
N.W.

X 40,66

Old cor. of secs. 4, 5, 32 and 33
bears N. 22 lbs dist. which
is a malpais stone 12x10x5
ins. above ground marked
and witnessed as described

BOOK 1441 Retracement of the S. Bdy.
of T24N R4E

by surveyor general.

The true course and length
of this line is N. $89^{\circ} 41' W$ 40.16 chs.
Land, rolling.

Soil, stony, 4th rate.

Timber scattering pine
Land covered with dense under
growth 79.97 chs.

July 8, 1903.

July 9 1903 at this cor I set
off $22^{\circ} 28' 30'' N$ on decl arc $35^{\circ} 23'$
N. on lat arc and at 8 AM
I set with the solar de-
termine a true meridian.

Thence I run

West on a random line
bet. secs. 5 and 32

Over rolling land

Retracement of the S. Bdy.
of T24NR4E

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- Through dense undergrowth
of buck brush and weeds.
- 13.80 Draw. course S.E. Enter timber
by bears N. and S. ascend.
- 25.00 Ridge 100ft high bears NW and
S.E. Descend.
- 30.00 Leave timber continue through
brush.
- 36.60 Dry creek 40 lks. wide course
S.E. foot of 100ft. descent.
- 40.08 Old $\frac{1}{4}$ cor. bears N. 21 lks dist
which is a malpais stone
14x12x6 ins. above ground
firmly set marked and
witnessed as described
by surveyor general. I repair
mound of stone N. of cor.
The true course and distance
of this line is N89°42'W. 40.08 obs

Retracement of the S. Bdy.
of T24NR4E

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From this cor. I continue
line West.

23.92 Drain. course from NW to SE

34.42 Same drain from SW to NE

40.52 Old cor. of secs. 5, 6 31 and 32
bears S 139 chs dist which
is a malpais stone 24x16x8
ins. firmly set in mound
of stone marked as described
by surveyor general. There
being no bearing trees I mark
two as follows

A pine 22 ins. in diam bears
S 66° 30' E 92 lks dist
mkd T23NR4E S5BT

A pine 24 ins. in diam bears
S. 29° 35' W. 242 lks. dist.
mkd T23N. R4E S6BT

The true course and distance

Retacement of the S. Bdy
of T 24 N R 4 E

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of this line is S. $88^{\circ}02'W$.
40.54 chs.

As the length of this line is
more than 80.00 chs. it be-
comes necessary to establish
a corner common to secs.

31 and 32 at a point 80 chs
dist. from the cor. of secs. 4, 5.

32 and 33 I proceed as follows

At a point N. $88^{\circ}02'E$. 60 lks.
dist. of the old cor. of secs. 5, 6,

31 and 32. I set a malpais
stone $22 \times 12 \times 6$ ins 16 ins.

in the ground for cor. of secs.

31 and 32 marked with 5 grooves
on E. and 1 groove on W. faces,

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

Pits impracticable.

Retracement of the S. Bdy
of T24NR4E

BOOK 1441

from which

A pine 12 ins. in diam.,
bears N. 84° W. 130 lks dist.
mkd. T24NR4E S31BT

No other trees in limits
suitable for bearing trees.

Land, rolling.

Soil, stony; 4th rate

Timber scattering pine
land covered with scattering
pine and buck brush 50 lbs.

West on a random line bet.

secs 26 and 31 from old cor.
which I change to refer to secs. 5 and 6 only.
Through pine timber

Over rolling land.

9.40

Ravine, 50 lks. wide course N.E.

Ascend S.E. slope

9.55

Old $\frac{1}{4}$ sec. cor. bears S 92 lks dist

Retracement of this S. Bdy.
of T24NR4E.

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which is a malpais stone
18x8x6 ins on top of ground
marked as described by
surveyor general. I set stone
12 ins. in ground. There being
no bearing trees. I mark two
as follows

A pine 20 ins in diam bears N.

$73^{\circ}12'W$. 15 lks. dist mkd $\frac{1}{4}S 31 B T$

A cedar 10 ins. in diam bears S

$85^{\circ}E$. 50 lks dist mkd $\frac{1}{4}S 6 B T$

The true course and distance
of this line is S. $88^{\circ}40'W$ 89.56 chs.
From old cor. I continue line
West.

7.85 Ridge, bears N.W and S.E 150 ft high
descend S.W. slope

27.85 Foot of 150 ft. descent. Drain
course N.W. Ascend N.E. slope.

Retracement of the S. Bdy.
of T24 NR4E

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31.85-

Ridge. bears NW. and S.E.

Thence over nearly level land

46.12

Corner of Tps. 23 and 24 N. Rs 3 and

4 E. bears S. 171 lks dist. which

is a malpais stone 14x6x4

ins. above ground firmly set.

marked as described by

surveyor general. There

being but three bearing trees

I mark another as follows.

A fine 6 ins in diam. bears

N. 17° 05' W. 70 lks dist.

mkd T24 NR3E S36BT

Other trees being in good

preservation and as described

by surveyor general

The true course and distance

of this line is S. 87° 35' W.

4116 chs.

Retracement of the S. Bdy
of T 24 N R 4 E

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BOOK 1441

Land rolling and hilly.
Soil, stony; 4th rate.
Timber, pine.

Land covered with pine
timber 81.27 chs.

Cloudy and rainy weather
prevented punches wood
during the day.

July 9, 1903

July 10, 1903, at the cor. of Tps.

23 and 24 N. Rs. 3 and 4 E.

at 8 a.m., l.m.b., I set off 22°

$21'30''$ N. on decl. arc. and 85°

$28'$ N. on lat arc and with

the solar determine a true
meridian.

Thence down

Roath, on a random line.

Retracement of the W. Bdy.
of T24 N R4 E

BOOK 1441

- bet. sec. 31 and 32
Over rolling land
Through pine timber.
- 10.00 Descend N.E. slope
- 25.00 Drain course W.
- 40.22 $\frac{1}{2}$ sec. cor. bears W. 25 lks dist
which is a malpais stone
16x10x5 ins. above ground
firmly set in the ground as described
by surveyor general. There
being but one bearing tree
I mark another as follows
A pine, 6 ins. in diam bears S
84°54'E 170 lks. dist. mkd $\frac{1}{2}$ S 31 B 7'
- The true course and distance of
this line is N0°21'W 40.22 chs
- From this cor. I continue
line North.
- 6.70 Drain course W.

Retracement of the W. Bdy
of T24NR4E

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- 2.80 - Spur, bears E, and W.
- 17.00 - Drain, course W.
- 40.28 - Cor. of secs. 25, 30, 31 and 36,
bears E. 76 lks dist. which is
a small stone loosely set
marked as described by
surveyor general. I mark
another at the same point
as follows. Set a
malpais stone 20 x 10 x 6
ins. 15 ins. in the ground
for cor. of secs. 25, 30, 31 & 36
mkd with 5 grooves on N
and 1 groove on S. face;
from which
- A pinon 8 ins in diam bears N 73° 35' E
14 lks dist mkd T24NR4E S 30 B T
- A pinon 6 ins in diam bears S 35° 40' E
12 lks dist mkd T24NR4E S 31 B T
- A pinon 4 ins in diam bears S 23° 33' W

Retracement of the W. Bdy
of T24N R4E

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25 lks dist mkt T24N R3 E S 3 & B T

A pinon tree in diam bears N83°10'W

35 lks dist mkt T24N R3 E S 25 B T

The true course and distance
of this line is N01°22'E 40.29 chs
land rolling and mountainous
Soil. stony; 4th rate

Timber. pine scattering cedar
and pinon

Mountainous land or land
covered with timber 80,50 chs

North on a rounddown line
bet. secs. 25 and 30

Over W. slope of high ridge
Through pine, cedar, and
pinon timber.

7.50 Ravine, course W.

10.00 Ravine, course W.

Retrospect of the W. Bdy.
of T 24 N R 4 E

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- 65.00 Spur bears N.W. and S.E.
Descend N.W. slope.
- 22.00 Ravine. course N.W.
- 80.00 Spur, bears E. and W.
- 89.15 Intersect to sec cor. I find a
sand stone $14 \times 10 \times 6$ ins.
above ground plainly set.
marked and witnessed
as described by a surveyor
general.
- July 10, 1903 at this cor. I set off
 $22^{\circ} 28' N.$ on decl arc; and
at 0^h 04^m 9^s P.M., I set b., so
some the sun on the meridian
the resulting is $35^{\circ} 24' N.$;
which is the latitude nearly.
- I continue line N. from cor.
- 0.25 Drain course N.E.
- 2.85 Spur, bears N.E. and S.W. descend.

Retracement of the W. Bdy.
of T24NR4E

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23.05

Foot of 400ft. descent, bears N.E.
and S.W. Thence over rolling
land.

40.43

Old cor of secs. 19, 24, 25 and 30
bears E. 38 lks dist, which is
a sand stone 18x12x6 ins,
above ground, firmly set on bed
and witnessed
as described by surveyor
general. There being no
N.W. bearing tree or mark on
as follows:

A pine 12 ins. in diam. bears N. 78° 30' W. 45'

Chs. dist marked T24NR3ES 24BT
The true course and length of this line is N. 0° 32' E. 40.43 chs.
Land mountainous

Soil. stony. 4th rate

Timber. pine cedar & pines

Mountainous land or land

covered with timber

79.58 chs.

Retracement of the W. Bdy
of T24 NR4E

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North, on a random line
bet. secs. 19 and 24

Over rolling land through pine
cedar and pinon timber

40.00

No trace of $\frac{1}{4}$ sec cor could be
found. Thence I run North
retracing ^{for} alignment and distance

81.00

Old cor. of secs 13, 18, 19 and 24
bears W. 40 lks. dist. which is
a mclapais stone 12x10x6 ins
above ground marked and
witnessed as described by
surveyor general.

The true course and distance
of this line is $N0^{\circ}17'W$ 86.00 lks.

Thence I run
 ~~$S6^{\circ}17'W$~~ ^{$S0^{\circ}17'E$} on a true line
bet. secs. 19 and 24.
Over rolling land.

Retracement of the W. Bdy
of T 24 N R 4 E

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- Through pine timber
- 8.00 Leave timber base E. and W.
- 18.00 Enter timber base E. and W.
- 24.00 Prairie course S.W.
- 40.50 Set a malpais stone 18x12x6
ins. 12 ins. in the ground
for sec. cor. mkd. $\frac{1}{4}$ on W. face;
with a mound of stone 2 ft.
base, 1 $\frac{1}{2}$ ft. high W. of cor. Pits
impracticable. No trees in
limits suitable for bearing
trees.
- 62.00 Descend steep S. slope
- 75.20 Prairie course N.W. foot of 180 ft.
descent.
- 81.00 The cor. of secs. 19, 24, 25 & 30
land, rolling.
Soil, stony, & ch. rate.
Timber, pine cedar and pinon.

Retracement of the W. Bdy
of T24N R4E

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Land covered with timber
and brush 81.00 chs.

July 10 1903

July 11, 1903, at 8 a.m., l.m.t.,
I set off $22^{\circ}14'N.$ on decl arc
 $35^{\circ}25'30''N.$ on lat. arc; and
with the solar determine
a true meridian.

Thence I run
South, on a random line
from the cor. of secs. 13, 15
19 and 24 bet. secs. 13 and 18.
Over rolling land,
through thick cedar
and pines.

0.00

Drain. course S, E,

37.00

Drain course E.

40.22

$\frac{1}{4}$ sec. cor. bear W. 122 lks dist.

Retracement of the W. Bdy.
of T24N R4E

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which is a pinon tree 6 ins.
in diam, marked and
witnessed as described by
surveyor general. I mark
another bearing tree as follows.

A pinon, 6 ins. in diam. bears
S. 25° 20' E, 53 lks. dist. mkd $\frac{3}{4}$ S 18 BT

The true course and distance
of this line is N. 1° 44' W 40.33 chs.

From this cor. I continue line N.

780 Drain course N.E.

24.58 Drain. course N.W.

4040 Cor. of nos. 7, 12, 13 and 18 bears
W. 93 lks. dist, which is a
malpais stone 10 x 10 x 6 ins.
above ground witnessed
and marked as described
by surveyor general. There
being no S.W. bearing

Retrosurvey of the W. Bdy.
of T24NR4E

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BOOK 1441

tree & mark are as follows:
A pinon 8 ins. in diam bears S. 36°
30' W. 78 lks. dist. mkt. T24NR3ES18 BT
The true course and distance
of this line is N0°28'W. 40.46 chs.
Land rolling.

Soil stony; 4th rate.

Timber pine, cedar and
pinon.

Land covered with timber
and brush 80.68 chs.

North, on a random line
bet. secs. 7 and 12.

Over rolling land, ascend
through thick cedar
and pinon.

20.00 Top of ascent ridge 600 ft
high bears E and W.

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Retacement of the W. Bdy
of T28NR4E

1441

BOOK

40.10

Thence over nearly level land.
 4 sec. cor. bears W. 110 lks. dist.
 which is a cedar¹ post 4
 ins. square 18 ins. above
 ground marked as described
 by surveyor general. I raise
 mound of stone 2 $\frac{1}{2}$ ft. ^{base} 1 $\frac{1}{2}$ ft.
 high W. of cor; and mark
 a bearing tree as follows.

A pinon 8 ins. in diam bears
 N. 82° W. 20 lks. dist. mhd. $\frac{3}{8}$ S 12 B T

No other trees in limits suit-
 able for bearing trees.

the true course and distance
 of this line is N. 1° 34' W. 40.11 chs.

July 11, 1903, at this cor. I
 set off 22° 1' 30" N. on declarc;
 and at 0^h 57^m P.M., l.m.t.,
 observe the sun on the meridian;

Re-tracement of the W. Bdy.
of T24NR4E

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BOOK 1441

The resulting latitude is
 $35^{\circ} 26' 30''$ which is the latitude
nearly.

I continue line North from
this cor.

18.00 Begin descent N. slope.

38.00 Drain. course E. foot of 100
ft. descent.

40.04 The cor. of secs. 6, 7 and 12
bears W. 120 lbs. dist. which
is a malpais stone 15 x 10
x 6 ins. above ground marked
and witnessed by as described
by surveyor general.

The true course and distance
of this line is $N. 1^{\circ} 43' W 40.6$ ^{ch.}
Land. hilly and mountainous
Soil, stony & ch. rate.

Timber. pine cedar & Pinon

Mountainous land or land
covered with timber 80.4 chs.

North, on a random line bet.
secs. 1 and 6.

Over mountainous land
Through pine cedar and pinon

8.00 Drain. course E.

16.00 Ravine, 2 chs. wide 40 ft deep
course E.

23.00 Drain, course E.

24.00 Drain, course E.

40.73 4 sec. cor. bears W. 9 lbs dist,
which is a malpais stone
10 x 8 x 8 ins. above ground
marked and witnessed
as described by surveyor
general.

The true course and distance

Re-survey of the W. Bdy
of T 24 N R 4 E

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BOOK 1441

of this line is ^{71.0° 8' W} ~~N 0° 8' E~~ 40.70 chs

Thence I run
from old cor.
North, and at 40.96 chs inter-
sect the 6th standard parallel
12.08 chs. W. of closing cor. of
Tps. 24 N R 0 3 and 4 E previous-
ly described.

Thence I run
S. 16° 26' W. on a true line
bet^h secs. 1 and 6.

12.70 Drain course W.

24.80 Drain course N.W.

35.10 Drain. course E.

42.70 Intersect 3 sec cor.

Land mountain ans.

Soil. stony 4th rate

Timber, pine cedar and pinox

land mountain ans or covered

with timber 83,20 chs

July 11, 1903.

Boundaries of T
Table showing Latitudes.

Lines Designated	True Bearing	Distances	Latitudes N
6th St. Pass N. & N. Fly. T24 N. R4E.	S 89° 55' E	6.18	
	S 89° 53' E.	466.10	
First Guide	S 0° 53' E.	38.20	
Meridian	S 0° 30' E.	39.60	
East 7	S 0° 17' E.	39.88	
East Body	S 1° 32' W.	38.41	
T24 NR4E	S 1° 09' W. E.	38.36	
	S 0° ⁴⁴ / ₄₅ W.	39.99	
	S 0° 19' E W.	38.81	
	S 0° 25' W.	39.00	
	S 0° 19' E	38.45	
	S 0° 09' E	40.01	
	S 0° 32' W.	40.57	
	S 0° 16' E	48.32	
	N. 89° 43' W.	39.77	.20
S. Body T24 NR4E	N. 89° 39' W.	40.21	.32
	Carried Forward		.52

24 N. R. 4 E. No. 1441

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departures and closing errors.

BOOK 1441

S	Departures	
	E	W
.81	6.18	
.95	466.10	
38.20	.59	
39.40	.35	
39.88	.20	
38.40		1.03
38.35	.77	.77
39.99		.52
38.81	.22	.77
39.00		.28-
38.45	.21	
40.01	.10	
40.57		.38-
48.32	.22-	
		39.77
		40.21
480.54	474.17	82.96
	474.72	87.41

Boundaries of
-Table showing Latitudes

Line Designated	True Bearing	Distance	Lat ^e <small>Carried Forward</small>
S. Body	N. 89° 38' W.	39.88	.54
	West	40.12	
	N 89° 51' W	39.40	.10
	N. 89° 26' W.	40.08	.40
	N. 89° 51' W	40.33	.10
	N. 89° 41' W.	40.16	.22
	N 89° 42' W	40.08	.21
	S 88° 02' W	40.54	
	S. 88° 40' W	39.56	
	{ S 87° 37' W	41.16	
W. Body.	N. 0° 21' W	40.22	40.22
T24NR&E.	N 1° 22' E	40.29	40.28
	North	39.15	39.15
	N 3° 2' E	40.43	40.43
	N 0° 17' W.	81.00	81.00
	N 1° 44' W	40.22 ^{40.23}	40.22
Carried Forward			283.11

T24 NR 4E

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Departures and closing errors

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Departure

angle
48054

E
~~474.72~~
474.17

W ~~87.41~~
~~82.96~~

39.88

40.12

39.40

40.08

40.83

40.16

40.08

1.39

40.52

.92

39.55

1.71

41.12

~~.25~~

.96

.98

.40

1.22

48456

~~475.51~~
476.06

~~486.07~~
485.52

Boundaries of
Table showing Latitudes

Line	Designated True Bearing	Distance	Latd
			Δ
		Correct Forward 289.11	
W. Bdy	N. 0° 28' W.	40.46	40.46
	N. 1° 34' W.	40.11	40.10
	N. 1° 43' W.	40.06	40.04
	N. 0° 08' W.	40.70	40.70
	N. 16° 26' E.	42.70	40.94
			485.37
Convergency			
Errors in Latitude and Departure			
	Totals,		485.37

T. 24 N., R. 4 E.

Departures and Closing Errors.

BOOK 1441

miles	Departure	
	E	W
	476.06	485.52
484.56	475.51	486.07
		.83
		1.10
		1.20
		.09
	1208	
	488.14	
484.56	487.59	488.79
	.50	488.24
	488.64	40
.81	70	
485.37	488.79	488.79
	488.64	488.64

General Description

The lands along the south boundary of this township are mountainous and rolling, covered for the most part with pine timber of good quality, and scrubby cedar and pinon which is worthless.

The soil is poor and of a stony and rocky nature. It is chiefly valuable for grazing and timber.

The rock is of volcanic origin and no mineral was found.

The lands along the West Boundary of the township are mostly mountainous and covered with pine, cedar, and pinon timber.

The soil is rocky and

i and W. Bdy T 24 N 12 E

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BOOK 1441

chiefly valuable for grazing
and timber. No mineral de-
posits of any kind were found.
The formation is of volcanic origin.

No settlers or their improve-
ments were found near the
South ~~of~~ West bound axis.

Marvin Baudle

U. S. Deputy Surveyor.

LIST OF NAMES.

list of the names of the individuals employed by.....

Marvin Garrick

United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of

survey of the *South and West Boundaries*

of Township Twenty four North Range Four East

BOOK 1441

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

O. E. Boashears....., Chainman.

Hermon Schuly....., Chainman.

....., Chainman.

....., Chainman.

Arthur T. Burns....., Axman.

Milton Francis Worth....., Axman.

Joseph H. Reeves....., Flagman.

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FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Marvin Gaudle
United States Deputy Surveyor, in surveying all those parts or portions
of the South and West Boundaries
of Township Twenty four North
Range Four East

BOOK 1441

BOOK 1441

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.

O. B. Brashear, Chainman.

Hermon Schulz, Chainman.

_____, Chainman.

_____, Chainman.

Arthur T. Burns, Axman.

Dillon Coppenorth, Axman.

Joseph H. Dewees, Flagman.

Subscribed and sworn to before me this 11th day
of July, 1903.

Marvin Gaudle
U. S. Deputy Surveyor Notary Public.

[SEAL.]

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

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I, Manner Gaudle, 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 South
and West Boundaries
of Town ship Twenty
four North Range
Four East.

BOOK 1441

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-