

SUBDIVISIONS.
T. 24. N. R. 4. E.

No. 481.

BOOK 481

4-671

481

FIELD NOTES
GENERAL LAND OFFICE.

No. 481

BOOK E
 Field Notes
 of the survey of the
 Subdivision
 of
 Townships No 24 and 25 North Range 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 14, 1903.
 Survey completed Aug 27, 1903.

BOOK 481 *and* BOOK 482 *and* BOOK 479
4-674.

Wnship 24 NORTH R. 4 EAST.

6	125	5	95	4	77	3	62	2	21	1
123	122	94	76	61	58					
7	119	8	91	9	74	10	56	11	19	12
117	116	90	73	54	52					
18	113	17	87	16	71	15	49	14	17	13
111	109	86	70	47	46					
19	106	20	84	21	68	22	43	23	14	24
104	102	83	67	20	39					
30	49	29	81	28	65	27	36	26	12	25
32	30	27	25	23	10					
31	48	32	80	33	64	34	34	35	8	36

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BOOK 481

PRELIMINARY OATHS OF ASSISTANTS.

We, O. E. Brashers
 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
Submission of Town ships Twenty
four and Twenty five North Range
Four East

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

O. E. Brashers, Chainman.
Herman Schulz, Chainman.
 _____, Chainman.
 _____, Chainman.

Subscribed and sworn to before me this 14th day of July, 1903.

[SEAL.]

Maxim Gaudle
U.S. Deputy Surveyor Notary Public.

We, Joseph H. Deves Arthur T. Brown
 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 Subdivisions of Townships
Twentyfour and Twentyfive North
Range Four East

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

Joseph H. Deves, Flagman
Arthur T. Brown, Axman
Milton Farnsworth, Axman
 _____, Axman

Subscribed and sworn to before me this 14th
 of July, 1903.

Marvin Gandle
 U.S. Deputy Surveyor Notary Public

subdivision of T24NR4E.

Survey commenced July 14, 1903
and executed with a W & L & C
Gunsby light mountain tran-
sit (not numbered) with solar
attachment. The horizontal limb
is provided with two double
verniers placed opposite each
other, reading to single min-
utes of arc, the least count
of the latitude and declination
arcs reading to 30" seconds of arc.

The instrument was examined
tested in the true meridian
at Phoenix found correct and was
approved by the surveyor
general of Arizona Sept. 19
1902

I examine the adjustments
of the instrument and correct

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B. OK 481

Subdivision of T24N R4E.

the level and collimation errors. Then to test the solar apparatus by comparing its indications resulting from solar observations made during A.M. and P.M. hours, with a meridian determined by observations on Polaris I proceed as follows

At the cor. of secs 25 and 36 on the E. bdy. of T. 24 N. R. 4 E. previously described. I set off $21^{\circ} 46' 30''$ N and declarc $35^{\circ} 24' N$ on the lat arc and at 4 P.M. I m. t. determine a true meridian with the solar and mark a point thereof on a plug set in the ground 5 chs. N. of the cor.

Subdivision of T24R4E.

At 12 ^{h. m. t.} M by my watch I observe
 Polaris at eastern elongation
 in accordance with instructions
 in the manual and
 mark a point in the line
 thus determined on a peg
 driven in the ground 5 chs
 N. of my station. July 14, 1903

July 15 A.M. I lay off the azi-
 muth of Polaris $1^{\circ}29'$ to the
 west and mark the meridian
 thus determined by a plug
 set 5 chs N. of the cor. of which
 the meridian falls 0.4 in west
 of the point determined by
 the solar

At 8 A.M. I m. t. I set off
 $21^{\circ}40'30''^N$ on decl arc $35^{\circ}24'N$

Subdivision of T24N R4E

on lat. one and with the solar determine a true meridian and mark a point thus determined on the plug set 5 cbs N. of my station. This mark falls 0.3 in E. of the meridian established by the Polaris observation.

The solar apparatus by P.M. and A.M. observations defines position for meridians respectively 21" W. and 16" east of the meridian established by the Polaris observation. There fore I conclude the adjustments of the instrument are satisfactory.

The retracement of the east boundary and south boundary of T. 24 N. R. 4 E shows them to be defective alignment

Subdivision of T7, NR 4 E.

and measurement to the extent that it is necessary to establish a sectional guide meridian and sectional correction line in order to properly subdivide the T^p. Therefore I began at the corner of secs. 25 and 30, which I recently established and run S 89° 42' W, parallel to S. bdy, on blank line and at 50.22 chs. set a stake.

From the corner of secs. 35 and 36 on S. bdy of T^p, previously described I run N., parallel to E. bdy. of T^p on blank line and intersect stake already set at 79.26 chs. At point of intersection I set a

Subdivision of T74 N R 6 E.

malpais stone 18 x 12 x 6 ins
 12 ins. in the ground for
 cor. of secs. 25, 26, 35 and 36
 mkd with one groove on
 E. and S. edges, raise a mound
 of stone 2 ft. base, 1 1/2 ft high
 W. of cor. Pits impracticable
 Thence down

Saugh on a true line bet. secs
 35 and 36.

Over rolling land through
 dense buck brush and weeds.

- 19.40 Road, bears N.W. and S.E.
 19.50 Drain course N.W.
 23.25 Enter timber bears E and W.
 28.00 Began ascent steep N. slope.
 Enter mountainous land.
 40.00 Set a malpais stone 18 x 12 x 7
 ins. 12 ins. in the ground for

X
 Subdivision of T 7 + N. R. & E.

¼ sec. cor. mkd ¼ on W. face;
 from which

A pine 14 ins. in diam bears S 80° 45' E

67 lbs. dist. mkd ¼ S 36 B T

A pine 8 ins. in diam bears N. 92° W.

132 lbs dist. mkd ¼ S 35 B T

47.25 Top of 400 ft. ascent bears E. and W.
 Descend steep S. slope

79.26 Have descended 400 ft. The cor
 of secs. 35 and 36.

Land. rolling and mountainous

Soil, stony; 50 and 4th rate.

Timber, pine.

Mountainous land or land
 covered with heavy pine
 and dense buck brush and
 weeds 79.26 chs.

Subdivision of T24N.R.4E.

Thence I run
from the cor. of sec. 26. 24 35 & 36
N. 89° 42' E. ₁ on a true line
bet. sec. 25 and 36.

Over rolling land ~~through~~
through dense buck brush
and weeds.

- 0.00 Enter timber bears N. and S.
12.50 S. rain. course N.W.
28.00 Ascend over S. slope of mount
36.00 Top of ascent bears N and S. 200
feet high. descend S.E. slope
40.00 Set a malpais stone (10x12x5)
ins. 11 ins. in the ground
for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N.
face; from which
A pine 8 ins. in diam bears
N. 18° 25' W. 68 lbs. dist. marked $\frac{1}{4}$ S 25 B T
A pine 16 ins. in diam bears S
S. 26° 35' E. 63 lbs. dist. marked $\frac{1}{4}$ 36 B T

Subdivision of T24NR4E.

July 15, 1903 I set off $21^{\circ}38'30''$ [✓]
 on decl. arc. and at $12^{\circ}05'36''$ ^{M&ME} ob-
 serve the sun on the meridian
 The resulting latitude is
 $36^{\circ}23'30''$ ^M which is the latitude
 nearly.

45.00

Foot of a 200 ft. descent bears
 N.E. and S.W. Thence over
 nearly level land down
 timber.

51.70

Road bears N.W. and S.E.

80.22

The corner of secs. 25 and 36
 land rolling and mountainous
 Soil. stony; 4th rate
 Timber. pine
 Mountainous land or land
 covered with timber and dense
 buck brush and weeds 80.22

Subdivision of T24N R4E.

July 15, 1903 at 3 P.M. l.m.t.

I set off $21^{\circ}37'45''$ N. on decl. sec.
 $35^{\circ}24'$ N. on lat. sec. and with
 the solar determine a true
 meridian at the cor. of secs.
 25, 24, 35 and 36.

I hence I run
 North between secs. 25 and 26
 over rolling land through
 dense buck brush.

- 10.00 Enter timber bears E. and W.
 34.50 Descend N. slope.
 37.00 Foot of 100 ft descent over level land
 40.00 Set a malpais stone $18 \times 10 \times$
 4 ins. 12 ins. in the ground
 for $\frac{1}{2}$ sec. cor. mtd $\frac{1}{2}$ on W. face;
 from which
 A pine 30 ins. in diam. bears
 S. $58^{\circ}10'$ E. 250 lks. dist mtd $\frac{1}{2}$ S 25 BT

Subdivision of T24NR4E.

- A pine 30 ins. in diam bears S $76^{\circ}30'$
W. 256 lks. dist mkd $\frac{1}{4}$ S 26 B T
- 46.00 Ascend S. slope of ridge.
- 48.50 Drain, course S.W.
- 50.00 Top of 100 ft ascent bears E and W.
Thence over nearly level land to
- 60.50 Drain, course S.W.
- 80.00 Set a mallepais stone 20x14
x 4 ins. 15 ins. in the ground
for cor. of secs 23, 24 25 & 26
mkd with 1 notch on E and
2 notches on S. edges, from which
A pine 10 ins. in diam bears N 43° E
163 lks. dist mkd T24NR4ES 24 B T
A pine 16 ins. in diam. bears S $30^{\circ}50'$ E
210 lks. dist mkd T24NR4ES 25 B T
A pine, 14 ins. in diam. bears S $59^{\circ}13'W$
206 lks dist mkd T24NR4ES 26 B T
A pine 20 ins. in diam. bears N $44^{\circ}23'W$

Subdivision of T24N R4E.

165-lks. dist. mks T24N R4E S 23 B T

Land rolling and mountainous

Soil, stony; 3rd and 4th rate.

Timber pine, good quality.

Mountainous land or land
covered with timber and
buck brush 8000 chs.

July 15 1903.

July 16 1903 at 8 A.M. l.m.t.

I set off $21^{\circ}31'N$. on decl arc $35^{\circ}24'30''$ on lat. arc and withthe solar determine a true
meridian at the cor. of sec.

23, 24, 25 and 26.

Thence I run

Storch between 23 and 24

Ascend S.E. slope through
pine and pinon timber

Subdivision of T24NR4E.

- 10.00 . Top of 100 ft ascent across NE and
S.W. thence over nearly level land
- 40.00 . Set a malpais stone 14 x 10 x
6 ins. 10 ins in the ground
for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on W. face.
~~from which~~ raise a mound
of stone 2 $\frac{1}{2}$ ft base, 1 $\frac{1}{2}$ ft high
W. of cor. ^{into an ~~practiced~~} from which
A pine 10 ins. in diam bears
S. 88° 35' E. 200 lks. dist marked $\frac{1}{4}$ S 24 B T
no other tree in dist.

Subdivision of T24NR4E.

- 46.00 Began descent steep N. slope.
- 61.00 D ran course W. foot of 200 ft. descent
Ascend steep S. slope.
- 69.00 Top of 150 ft. ascent bears E. and W.
Thence over top of ridge
- 80.00 Set a malpais stone 20 x 14 x
6 ins 15 ins. in the ground
for cor. of secs. 13 14 23 and 24
mkd with 1 notch on E and
3 notches on S. edges, from which
A cedar, 12 ins. in diam. bears N 69° E
38 lks. dist mkd T24NR4ES13BT
A pine, 10 ins. in diam bears S 50° 40' E
108 lks dist mkd T24NR4ES24BT
A pine 18 ins. in diam bears S 32° 10' W
79 lks dist mkd T24NR4ES23BT
A cedar, 6 ins. in diam bears N 34° 22' W
42 lks dist mkd T24NR4ES14BT
Land mountainous

Subdivision of T24NR4E.

Soils, stony; 4th rate.

Timber, pine.

Land covered with timber on
mountainous land 80 00 lbs

Tract bet. secs 13 and 14

Over rolling land through pine
timber.

35.00 Descend steep N. slope.

40.00 Set a malpais stone 18 x 12 x 4
ins. 12 ins. in the ground
for $\frac{1}{4}$ sec cor. marked $\frac{1}{4}$ on W. face
from which

A pine, 18 ins. in diam bears S.

41° 40' E 9 lks. dist marked $\frac{1}{4}$ S 13 B T

A pine, 20 ins. in diam. bears S

81° 40' W. 197 lks. dist marked $\frac{1}{4}$ S 14 B T

41.00 Drain course N.E. foot of 150 ft. dex.

45.00 ^{same} Drain course N.W. ascend SW slope

Subdivision of T24NR4E.

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

64.50 Drain, course N.E. foot of 100 ft. dikes

74.00 Ridge, bears N.E. and S.W.

80.00 Set a malpais stone 18x10x6

ins. 12 ins. in the ground for
cor. of secs. 11, 12, 13 and 14 mkt

with one notch on E. and 4
notches on S. edges; from which

A pine 8 ins. in diam bears N 28°
02'E 237 lks dist mkt T24NR4ES12BT

A cedar, 10 ins. in diam bears S 37° 30'E
220 lks dist mkt T24NR4ES13BT

A cedar 20 ins. in diam. bears S. 31° W.
85 lks dist mkt T24NR4ES14BT

A pine 20 ins. in diam bears N 45° W.
197 lks. dist mkt T24NR4ES11BT

Land mountainous
Soil stony; 4th rate.

Subdivision of T24NR4E.

heavy
Timber pine and scattering
cedar and pinon.

Mountainous land and
land covered with heavy
timber 80.00 chs.

July 16 1903 I set off $21^{\circ} 29' N$.
on decl. arc and at $12^h 05' 42''$

M. l. m. t. observe the sun
on the meridian the result-
ing latitude is $35^{\circ} 26'$ which
is the latitude nearly.

North bet. secs. 11 and 12

Descend mountainous land
through pine cedar and pinon

8.00 Ravine course. $N 5^{\circ} W$ foot of 100 ft
descent.

14.00 Some drain, course N. E.

23.50 Ridge, bears N. E. and S. W descend

Subdivision of T24N R4E

N.W. slope.

- 34.00 Foot of 100 ft descent bears NE and S.W.
- 40.00 Set a malpais stone 18x10x10 ins. 12 ins. in the ground for $\frac{1}{4}$ sec. cor. mkd $\frac{1}{4}$ on W. face; from which
- A cedar, 10 ins. in diam bears N. 87° E 76 lks. dist mkd $\frac{1}{4}$ S 12 B T
- A cedar, 16 ins. in diam bears S. 85° 20' W. 71 lks. dist. mkd $\frac{1}{4}$ S 11 B T
- 52.00 Road bears NE and S.W. Leave timber. Enter dense buck brush
- 80.00 Set a malpais stone 18x14x10 ins. 12 ins. in the ground for cor. of secs. 1, 2, 11 and 12 mkd with 1 notch on E and 5 notches on S edges; dig pits 18x18x12 ins in each section

Subdivision of T24NR4E.

and raise a mound of earth
4 ft base, 2 ft high W. of cor.
Land mountainous.

Soil, stony; 3rd and 4th. rate.
Timber pine cedar & fir on
Mountainous land and
land covered with timber
and buck brush 80.00 chs.

North bet. secs. 1 and 2

Over rolling land through dense
chico and buck brush.

10.00

Enter scattering timber.

40.00

Set a malopsis stone 16 X 12 X 7
ins. 11 ins. in the ground for
¼ sec. cor. mkd ¼ on W. face;
from which

A cedar 5 ins. in diam bears N.
69° 30' E 159 lbs dist mkd ¼ S 1 B T

Subdivision of T24NR4E.

a pinon, 6 ins. in diam bears
 N. $19^{\circ}5'W$. 141 lbs. dist. mld $\frac{1}{4}$ S 2 B T
 80.35 Intersect 6th stand and parallel
 and N. bdy. of Tp. 13. 90 chs. ^{N $87^{\circ}53'$} W. of
 stand and cor. of secs. 35 and 36
 previously described. At point
 of intersection I set a mala-
 pais stone $18 \times 12 \times 6$ ins. 12
 ins. in the ground for clos-
 ing corner of secs. 1 and 2
 mld C.C. on S., 1 groove on
 E. and 5 grooves on W. faces;
 from which

A pinon, 8 ins in diam bears $S 53^{\circ}45'$
 E 66 lbs. dist. mld CCT24NR4ES1BT

A pinon, 10 ins in diam bears $S 17^{\circ}30'W$.
 85 lbs dist mld CCT24NR4ES2BT

Land rolling

Soil stony; 3rd and 4th rate

Subdivision of T24NR4E.

Timber. cedar and pinon
Land covered with dense cedar
pinon or buck and chico
brush 80.35-chs.

July 16, 1903.

July 17, 1903. at 8 a.m. l.m.t.
I set off $21^{\circ}21' N$ on decl. arc
 $35^{\circ}24' N$ on lat arc and with
the solar determine a true mer-
idian at the cor. of secs 25-
26 35- and 36 previously
described.

Thence I run
S $89^{\circ}42' W$ bet sec. 26 and 35-
Over rolling land through dense
buck brush.

40.00

Set a malapais stone $20 \times 12 \times 6$
ins. 15-ins. in the ground

Subdivision of T24N R4E.

- for $\frac{1}{4}$ sec cor. mkd $\frac{1}{4}$ on N face
raise a mound of stone 2 ft
base, 12 ft high N. of cor.
Pits ~~impracticable~~
58.00 Enter cedar and pinon bears N. and
S.
- 62.50 Draw course N.W. Saw timber
ascend N.E. slope.
- 74.00 Top of 100 ft ascent bears NW and SE
thence over nearly level land.
- 80.00 Set a malpais stone 16 X 12 X 6 ins
11 ins. in the ground for cor of
secs 26, 27, 34 and 35 mkd
with 2 notches on E. and one
notch on S edges; raise a
mound of stone 2 ft. base,
12 ft. high W. of cor. Pits im-
practicable. from which
A pine 20 ins. in diam bears N 76° 45' E.
169 lks dist mkd T24N. R4E S 26 B T

Subdivision of T24NR4E.

A pine 20 ins in diam bears
 N15°30'W. 40 lks dist mkd T24NR4E S27 BT
 No other tree in limits.
 Land rolling.

Soil stony; 4th rate.

Timber, pine cedar and pinon
 Land covered with timber, or
 dense buck brush 80,000 lbs.

S. 89° 42' W. bet. secs. 27 and 34
 Over rolling land through
 cedar and pinon.

Drain, course N. W.
 Road bears N. + S.
 To Drain course N. E.

7.80
 35.20
 39.00

40.00

Set a malpais stone 16x10x6
 ins 11 ins. in the ground for
 1/4 sec. cor. mkd 1/4 on N. face
 from which

A pine, 8 ins. in diam bears N43°
 30'W 145 lks. dist mkd 1/4 S 27 BT

Subdivision of T24N R4E.

A pine, 6 ins. in diam bears S.
 $75^{\circ} 30' W$. 142 lbs. dist mkt $\frac{1}{2}$ S 34 B T
 Heavy rains prevented further
 work during the day.
 July 17 1903.

July 18 1903 at 8 a.m. l.m.t.
 I set off $21^{\circ} 11' N$ on decl. arc
 $35^{\circ} 24' N$ on lat arc and with
 the solar determine a true
 meridian at the $\frac{1}{4}$ cor. bet secs
 27 and 34.

Thence I run

S. 89° 42' W bet secs 27 and 34

49.50

Drain, course N. ascend over

S. slope of mountain

64.00

Top of 150 ft ascent bears N
 and S. Descend S.W. slope

80.00

Foot of 100 ft descent bears N.W.

Subdivision of T24NR4E,

and S.E. set a malapais
stone 20x12x5 ins. 15 ins in
the ground for cor. of secs. 27
28, 33 and 34 with 1
notch on S and 3 notches
on E. edges; dig pits 18x18x
12 ins in each section 5 1/2
ft. dist., and raise a mound
of earth 4 ft. base, 2 ft. high
W. of cor. No trees in limits
suitable for bearing trees.
Land, rolling and hilly
Soil stony; 4th rate
Timber cedar and fir
Land covered with timber
and buck brush 8000 chs.

S89° 42' E. bet secs. 28 and 33
Over rolling land through

Subdivision of T24R4E.

- back brush
- 4.00 Enter timber, bears N. and S.
- 11.00 Drain, course N.W. Ascend over and
apais boulders
- 40.00 Get a malpais stone 15x8x6 ins
12 ins. in the ground for $\frac{1}{4}$ sec
cor. mkd. $\frac{1}{4}$ on N. face; from
which
- A fine 20 ins. in diam bears N30°
15'W. 113 lks. dist mkd $\frac{1}{4}$ S 28 B T
- A fine, 20 ins. in diam bears S 62°
W. 200 lks dist mkd $\frac{1}{4}$ S 33 B T
- 52.00 Top of low ridge bears N. and S.
Gradually descend W. slope.
- 56.00 Foot of 50 ft descent. bears N. 7 S.
Thence over nearly level land
- 69.00 Drain, course N.
- 77.20 Drain course N, E.
- 80.00 Get a malpais stone 18x12

Subdivision of T24NR4E.

x 10 ins. 12 ins in the ground
for corner of secs 28. 29. 32 and 33
marked with 4 notches on E
and 1 notch on S. edges;

from which

A pine, 6 ins in diam bears $N. 9^{\circ} 15' E$

69 lbs dist mkd T24NR4ES 28. B T

A pine, 16 ins. in diam bears $S 11^{\circ} E$

43 lbs dist mkd T24NR4ES 33 BT

A pine 18 ins in diam bears $S 60^{\circ}$

$30^{\circ} W 58$ lbs dist. mkd T24NR4ES 32 BT

A pine 18 ins in diam bears $N 28^{\circ} 40' W$

156 lbs dist mkd T24NR4ES 29 BT

Land, rolling.

Soil stony; 3rd and 4th rates.

Timber, pine cedar and pinon.

Land covered with timber

or buck brush 8000 chs.

Subdivision of T74NR4E

S. $89^{\circ}42'W$ bet. secs 29 and 32

Over rolling land through heavy pine timber.

39.00 Large drain, course N.E.

40.00 Set a malapais stone $16 \times 12 \times 6$ ins. 11 ins. in the ground for $\frac{1}{4}$ sec. cor mkd $\frac{1}{4}$ on N face from which

A pine, 30 ins. in diam, bears $N 10^{\circ} W$.

99 lks. dist. mkd $\frac{1}{4} S 29 B T$

A pine, 30 ins. in diam bears $S 22^{\circ}$

$10^{\circ} E$. 49 lks. dist. mkd $\frac{1}{4} S 32 B T$

July 18¹⁹⁰³ at this corner I set off ^{decl} $21^{\circ} 9' N$ on lat. arc. and at 12^h

$5^h 54^m$ observe the sun on the

meridian. The resulting latitude is $35^{\circ} 24' N$, which is the latitude nearly.

42.50

Malapais ledge bears N and S

Subdivision of T24NR4E.

- 72.00 Descend malpais ledge
bears N.E. and S.W.
- 80.00 Foot of 100 ft descent S et. a
malpais stone 16 x 10 x 8 ins
11 ins. in the ground for cor.
of secs. 29 30 31 and 32
mkd with 1 notch on S. and
5 notches on E edges; from
which
- A pine, 18 ins. in diam bears N. 65°
E. 63 lks dist mkd T24NR4ES29BT
- A pine, 18 ins. in diam bears S 33° 33' E
115 lks dist mkd T24NR4ES32BT
- A pine 20 ins. in diam bears S 70° W.
257 lks. dist mkd T24NR4ES31BT
- A pine 16 ins. in diam bears N 51° 35' W
119 lks dist mkd T24NR4ES30BT
- Land, rolling.
Soil, stony 3rd and 4th rate.

Subdivision of T24NR4E.

Timber heavy pine
land covered with timber
8000 chs.

S. $89^{\circ}42'W$. bet. secs. 30 and 31

Over ~~mountain~~ ⁵⁴land through
heavy pine timber.

1.00

Ravine 1 ch wide 20ft deep
course N. E. ascend N. E. slope
of mountain.

24.20

Ravine 2 chs wide 40ft deep
course North.

40.00

Set a malpais stone 16 x
12 x 6 ins. 11 ins. in the ground
for $\frac{1}{4}$ sec. cor. mkt. $\frac{1}{4}$ on N. face
from which

A pinow, 6 ins. in diam bears
N. $29^{\circ}10'E$ 20 lbs. dist mkt $\frac{1}{4}$ S 30 B T

A pinow, 10 ins. in diam. bears $S 33^{\circ}$

Subdivision of T24NR4E.

55'E 72 lks dist mtd 7531BT

Ascend steep E. slope from
corner through dense
under growth.

53.00

Top of ascent. 1000 ft. above
sec. cor. bears N and S.

Descend N.W. slope

80.66

Have descended 500 ft. Inter
sect W. bdy. of Tps. at cor
of secs. 25, 30, 31 and 36

Land. mountainous

Soil stony; 4th rate

Timber pine, cedar and fir.

Mountainous land and

land covered with heavy
timber 80.66 chs.

July 18 1903

Subdivision of T24N R4E.

July 20 1903 at 8 A.M. l.m.t.

- ✓ I set off $20^{\circ}49'30''$ N. on decl arc
- ✓ $35^{\circ}24'$ N. on lat arc and with the solar determine a true meridian at the cor of secs. 26, 27, 34 and 35.

I hence I run $S0^{\circ}01'E$. on a random line bet secs. 34 and 35

40.00 Set term to sec. cor

79.00 Intersect S. bdy of Tps 7 lks E. of cor of secs. 34 and 35 previously described.

I hence I run $N.0^{\circ}02'E$ on a true line bet secs 34 & 35. Over mountainous land through heavy pine timber. Descend steep N.W. slope of ridge. Canyon course S.W. ascend over

13.00

Subdivisions of T24NR4E.

- W. slope of mountain.
- 28.00 Top of ascent 200 above bottom of canyon. bears E and W. Descend N. slope.
- 39.00 Set a malpais stone 20x12x6 ins. 15 ins. in the ground for $\frac{1}{4}$ sec. cor. mkd $\frac{1}{4}$ on W face; from which
 A pine, 14 ins. in diam bears N 28° E
 65 lks. dist mkd $\frac{1}{4}$ S 35° B T
 A pine, 10 ins. in diam bears N 80° 25' W
 94 lks. dist mkd $\frac{1}{4}$ S 34° B T
- 51.20 House, bears W. 2.20 lks
- 52.00 Wire fence bears N. 20° W
 artificial, full of water covering about 400 acres
- 56.20 Mortig Lake, bears W. 5.20 chs.
- 60.00 Foot of 400 ft descent bears E & W
- 60.50 Road bears E. and W. Thence ascend over W. slope of hill
- 79.00 Have ascended 100 ft.

Subdivision of T24 NR4E

The cor of secs. 26, 27, 34 and 35

Land mountainous.

Soil stony; 3rd and 4th rate.

Timber, pine

Mountainous land and
land covered with timber
79.00 chs.

$20^{\circ}01'W$ bet secs. 26 and 27

Descend from cor. through
buck brush.

9.00

Foot of 100 ft. descent. drain
course N.W. Ascend S. slope

12.00

Top of 40 ft ascent. bear E. and W.
Thence over rolling land through
buck and chis brush.

40.00

Set a malpais stone $18 \times 12 \times 6$
ins. 12 ins. in the ground
for $\frac{1}{4}$ sec. cor. raked $\frac{1}{4}$ on W face;

Subdivision of T24N4E.

- raise a mound of stone
2 ft base, $1\frac{1}{2}$ ft high W. of cor.
Pits impracticable.
- 42.50 Dry lake 6 chs long, 4 chs
wide.
- 71.00 Drain course W. ascend grad
nally.
- 80.00 Set a malpais stone $20 \times 12 \times 6$
ins. 15 ins. in the ground
for cor. of secs. 22, 23, 26 and 27
mkd with 2 grooves on E. and
S. edges, raise a mound
of stone 2 ft base, $1\frac{1}{2}$ ft high
W. of cor.
- Land, rolling
Soil, stony: 3rd and 4th rate
No timber.
- Land covered with dense brush
brush 8000 chs

Subdivision of T24NR4E.

July 20, 1909 I set off $20^{\circ}47'30''$
 N on decl. arc and at $12^{\text{h}}06'03''$
 M. l. m. t. observe the sun
 on the meridian. The resulting
 latitude is $35^{\circ}24'30''$ N. which
 is the latitude nearly.

Thence I run

N. $89^{\circ}42'$ E. on a random line
 bet. secs. 23 and 26.

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

80.25 Intersect N and S line 3 lks
 N. of cor. of secs. 23, 24, 25 & 26

N. $89^{\circ}42'$ ~~W~~^E on a random line
 bet. secs. 24 and 25

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

79.84 Intersect cor. of secs. 24 and
 25. previously described.

Thence I run

Subdivision of T24 N R4 E.

- X S. $89^{\circ} 42' W$. on a true line
bet secs. 24 and 25-
- Over mountainous land
Through heavy pine timber
Descend steep W. slope
- 4.20 Ravine course S.W.
- 23.00 Ravine course S.E. ascend ~~to~~
- 27.00 ~~Slope of ridge~~ Ridge bears
N. and S. Descend W. slope
- 34.00 Ravine course S. foot of 200
ft. descent. ascend steep
E slope of ridge
- 38.00 S spur, 150 ft high bears N. & S.
- 39.84 Set a meade's stone 18×12
 $\times 6$ ins. 12 ins. in the ground
for $\frac{1}{4}$ sec. cor. mkt. $\frac{1}{4}$ on N. face
from which
A cedar, 16 ins. in diam bears $N 25^{\circ} E$
30 lbs. dist mkt $\frac{1}{4}$ S 24 B T

Subdivision of T24N R4E

- A pine, 24 ins. in diam. bears
 S. 61° 15' W. 26 lks. dist. out to S 25 BT
- 40.80 Ravine. course S.
- 51.00 Spur 150 ft high bears N. and S.
- 59.60 Ravine course N.W. Descend
 over S.W. slope of ridge.
- 60.50 ⁵⁰⁰ Ravine course S.W.
- 74.80 Down. course S.E. Foot of 150 ft
 descent. Ascend
- 79.84 Have ascended 100 ft. The corner
 of sec. 23, 24, 25 and 26.
 Land. mountainous
 Soil, stony; 4th rate.
 Timber. pine, fir and cedars
 Mountainous land and
 land covered with heavy
 timber 79.84 chs.
-
- Thence I run

S 89° 43' W

Subdivision of T24N R4E.

on a true line bet sec. 23 & 26

Over mountainous land
through pine, cedar and pinyon

2.20 D rain, course S.W.

9.25 D rain course S.W. Ascend S.E.
slope of spur.

14.00 S spur 100 ft. high bears N.E. & S.W.
D descend steep N.W. slope.

19.20 D rain, course S.W. foot of 100 ft. des.
Ascend S.E. slope

34.20 Ridge bears N.E. and S.W. 75 ft high

40.12 1/2 Set a malpais stone 16 x 12 x

7 ins. 11 ins. in the ground far

1/4 sec. cor. mkt. 1/4 on N face;

from which

A pine 8 ins. in diam. bears

N. 59° 20' E. 50 lbs. dist mkt 1/4 S 23 B T

A pine 6 ins. in diam bears S 21° 10' W

32 lbs. dist mkt 1/4 S 26 B T

Subdivision of T24N R4E.

- Descend from corner over steep
N.W. slope of ridge.
- 49.00 D rain, course S.W. foot of 150 ft descent
Ascend W. slope of spur.
- 54.00 S spur, bears N. and S. 100 ft high
Descend W. slope.
- 62.00 Foot of 160 ft descent bears N and
^{south timber}
S; thence over rough and broken
land to
- 80.25 The cor. of secs. 22, 23, 24, 27.
Land mountainous
Soil, stony, 4 therate.
Timber, pine, cedar and
fir or 200 lbs
Mountainous land 80.25 lbs

July 20, 1903

July 21 heavy rains and
cloudy weather prevented
work in the field.

Subdivision of T2, R4E.

July 22, 1902 at 8 a.m.

L. m. t. I set off $20^{\circ} 28' N$
on decl. arc $35^{\circ} 24' 30'' N$ on

lat. arc and with the solar
determine a true meridian
at the cor. of secs. 22 23 24 and 25

I then I run

$40^{\circ} 9' W$. bet. secs. 22 and 23

Ascend mountainous land

2.50 Road bears NW. and S.E.

4.00 Enter timber bears E and W.

18.00 Top of 110 ascent bears E and
W. Descend N. slope

33.50 Drain. course W. foot of 150 ft
descent.

40.00 Set a malpais stone $20 \times$
 12×6 ins. 15 ins. in the ground
for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on W face
from which

Subdivision of T24NR4E

- A pine, 16 ins. in diam. bears
N. $79^{\circ}30'$ E. 113 lks. dist. mkd $\frac{1}{4}$ S 23BT
- A cedar 12 ins in diam bears S 74°
W. 42 lks dist mkd $\frac{1}{4}$ S 22BT
- 57.50 Drain, course W.
- 78.80 Ravine course W.
- 80.00 Set a melopais stone 18 x 10
x 6 ins. 12 ins. in the ground
for cor. of secs. 14, 15 22 and 23
mkd with 2 notches on E
and 3 notches on S. edges;
from which
- A cedar 10 ins. in diam bears N 34°
 $30'$ E 254 lks. dist. mkd T24NR4ES4BT
- A pine, 18 ins in diam bears S. 88° E.
200 lks dist mkd T24NR4ES23BT
- A cedar, 14 ins in diam bears S $42^{\circ}35'$ W
45 lks. dist. mkd T24NR4ES22BT
- A pinon, 10 ins. in diam bears N $19^{\circ}28'$ W

Subdivision of T24NR4E.

114 lks. dist. wk'd T24NR4E S15-B T

Land mountainous

Soil, stony; 4th rate.

Timber, pine cedars and pines

Mountainous land and
land covered with tim-
ber 80.00 chs.~~MISSISSIPPI~~N. $89^{\circ}43'E$. on a random line
bet. secs. 14 and 2340.00 Set turn $\frac{1}{4}$ sec. cor.80.20 Intersect N and S line 7 lks S. of
cor. of secs. 13, 14, 23 and 24

Thence I run

N $89^{\circ}42'E$ on a random line
bet. secs. 13 and 2440.00 Set turn $\frac{1}{4}$ sec. cor.80.27 Intersect E. bdy. of Tp 3 lks
N. of cor. of secs. 13 and 24

46

BOOK 481

Subdivision of T24N R4E.

previously described. ✓

July 22 1903 I set off $20^{\circ}25'N$
on decl. arc and at $12^{\text{h}}06'10''$ A.M. I went to observe the sun
on the meridian. The result
my latitude is $35^{\circ}25'30''N$
which is the latitude nearly.

Thence I run

 $S89^{\circ}43'W$ on a true line bet
secs. 19 and 24Descend mountainous land
through pine cedar and fir on18.20 Foot of 150 ft. descent bears N. and S
Thence over rolling land to

32.00 Ascend S.E. slope.

40.27 Top of 100 ft ascent bears NE & SW
Set a malpais stone $18 \times 10 \times 6$
ins. 12 ins. in the ground for
 $\frac{1}{4}$ sec. cor. mkt $\frac{1}{4}$ on N. face;

Subdivision of T24N R4E.

from which

A pinus 6 ins. in diam. bears $N 89^{\circ} 30' E$

131 lbs. dist. mtd $\frac{1}{4} S 13 B T$

A pine, 12 ins. in diam bears $S 54^{\circ} 20' W$

137 lbs. dist mtd $\frac{1}{4} S 24 B T$

44.20 Drain, course N.E.

60.50 Drain course N.W.

63.20 Drain course N.E.

80.27 The corner of secs. 13, 14 23 & 24

Land, mountainous.

Soil, stony; 4th rate.

Timber, pine cedar and pinon

Mountainous land and land

covered with timber 80 27 chs.

Thence I run

S. $89^{\circ} 40' W$. on a true line

bet. secs. 14 and 23

Over mountainous land

Subdivision of T24N R4E.

- Through pine cedars and pines
- 4.00 Descend N.W. slope.
- 28.00 Drain, course S.W. foot of 100
ft descent.
- 36.20 Same Drain, course N.W.
- 40.10 Set a malpais stone 26x10x6
ins. 19 ins. in the ground for
1/4 sec. cor. mkd $\frac{1}{2}$ on N. face;
from which
A pine 8 ins. in diam bears N 41°
10' W 5 p lks. dist mkd $\frac{1}{2}$ S 14 B T
A pine 12 ins in diam bears S 12° 55' W
63 lks. dist mkd $\frac{1}{2}$ S. 23 B T
Ascend N.E. slope
- 46.20 Top of ascent 100 ft high bears N
W. and S.E. Descend S.W. slope
- 48.00 Drain, course N.W.
- 52.50 Ridge bears N.W. and S.E. 75 ft high
Descend S.W. slope.

Subdivision of T24N R4E.

8040
6800
8020
8020

Draw course NW. foot of slope descent
Ridge bears N.W. and S.E.
Descend S.W. slope to
The cor of sec. ~~14~~ 15-22 and 23
Land, mountainous.
Soil, stony; 4th rate.
Timber pine, pinon and
cedar 80.20 chs.

July 22 1903

July 23, 1903 at 8 a.m. l.m.t.
I set off $20^{\circ}15' N$ on decl. arc
 $35^{\circ}25'30'' N$ on lat arc and
with the solar determiner
a true meridian at the cor
of sec 14 15-22 and 23

Thence I run

$N0^{\circ}1'W$. bet. sec 14 and 15
land
Over rolling through pinon

Subdivision of T24NR4E.

- and cedar.
- 2.00 Leave timber across N. and W.
Enter brush brush descend gradually N.W. slope.
- 38.00 Foot of 100 ft. descent across N.E.
and S.W. thence over nearly level land.
- 40.00 Set a malpais stone 16 x 12
x 6 ins. 11 ins. in the ground
for $\frac{1}{2}$ sec. cor. marked $\frac{1}{2}$ on W. face;
raise a mound of stone 2
ft base, 1 $\frac{1}{2}$ ft high W. of cor.
Pits impracticable.
- 46.00 Road. across N.E. and S.W.
- 80.00 Set a malpais 16 x 8 x 6 ins.
11 ins. in the ground for
cor. of secs. 10, 11 14 and 15 -
marked with 2 notches on E.
and 4 notches on S edges;

Subdivision of T24NR4E.

dig pits 18x18x12 ins in each
sec. 5 1/2 ft dist. and raise a
mound of earth 4 ft base,
1 1/2 ft high W. of cor.

Land rolling.

Soil, stony and sandy 3rd rate.

Timber cedar and pines 2 cbs.

Land covered with timber
and buck brush 50.00 cbs

Thence I run

N89°40'E on a random line

bet. sec. 11 and 14

40.00 Set term & sec. cor.

80.27 Intersect N and S line 5 lbs

N of cor of sec. 11, 12, 13 and 14

Thence I run

N89°48'E on a random line

Subdivision of T24N R4E.

bet. secs. 12 and 13.

40.00 Set turn $\frac{1}{4}$ sec. cor.80.40 Intersect E. bdy of T p. 5 lks S.
of cor. of secs 12 and 13. ✓July 23 1903 I set off $20^{\circ}13'N$
on decl. arc and $12^{\text{h}}6^{\text{m}}13''$ M. l. m. t. observe the sun
on the meridian, the resulting
latitude is $35^{\circ}26'$ which is
the latitude nearly.I hence I run
S. $89^{\circ}41'W$. on a true line
bet. secs. 12 and 13.Over mountainous land
Through pine, cedar and fir
Descend N.W. slope.

16.00 Ravine, course N.W.

24.00 Foot of 700 ft descent bears N.E.
and S.W. thence ^{over} rough and

Subdivision of T24NR4E.

broken land.

- 30.00 D row, course N.W.
- 33.60 D row, course N. ascend N.E.
slope of ridge.
- 37.50 Ridge 100ft high N.W. and S.E.
- 40.00 Ravine, course N.W.
- 40.40 Set a malpais stone 18 X 12 X 7
ins. 12 ins. in the ground for
¼ sec. cor. mkd ¼ on N. face,
from which
A pin 16 ins in diam bears N 12° 30' W
62 lbs. dist. mkd ¼ S 12 B T
A pin 14 ins. in diam bears S 7° E
25 lbs dist mkd ¼ S. 13 B T
Ascend N.E. slope
- 53.00 Ridge 80 ft. high bears N.W. and S.E.
Descend S.W. slope.
- 65.00 Ravine, course N.W.
- 68.00 Ravine, course N foot of 125 feet

Subdivision of T24NR4E.

- 76.00 Ridge bears N.E and S.W. 80 ft high.
Thence over top of ridge
- 80.40 The cor. of secs. 11, 12, 13 and 14
Land mountainous.
Soils, stony; 4 ch. rate.
Timber, pine, cedar and pinon
Mountainous land and land
covered with heavy timber
80.40 chs.
-
- S 89° 42' W. on a true line
bet. secs. 11 and 14.
Over mountainous land
Through pine, cedar and pinon
- 32.0 Drain, course N. ascend N.E.
slope of ridge.
- 8.00 Ridge 90 ft high bears N.W. & S.E.
Descend S.W. slope
- 18.00 Drain, course N.W. foot 60 feet descent

Subdivision of T24 NR4E.

- 2250 S fur bears NW. and S.E. descend
S.W. slope
- 35.00 Drain, course N.W. foot of 50 ft desc.
- 40.13½ Set a malpais stone 18x12
x5 ins. 12 ins. in the ground
for $\frac{1}{4}$ sec. cor. mkd $\frac{1}{4}$ on N face
from which
a pine, 16 ins. in diam bears S 55° W.
39 lks dist. mkd $\frac{1}{4}$ S 14 B T
A cedar 20 ins. in diam bears N. 42° 30'
W. 71 lks dist mkd $\frac{1}{4}$ S 11 B T
Descend N.W. slope.
- 54.00 Foot of 50 ft descent. Road bears
N. E and S. W. Thence over
rolling ^{land} leave timber bears
N. E. and S. W. enter buck brush.
- 80.27 The cor. of secs. 10, 11, 14 and 15.
Land mountainous
Soil, stony; 4th rate.

Subdivision of T24NR4E.

Mountainous land or land
covered with timber and buck
brush 80.27.

July 23 1903

July 24 at 8 a.m. l.m.t. I set
off $20^{\circ} 3' N.$ on decl arc. $35^{\circ} 26'$
N on lat arc and with the
solar determine a true mer-
idian at the cor of secs 10
11, 14 and 15

Thence I run

$N. 0^{\circ} 1' W.$ bet secs 10 and 11.

Over rolling land through
buck and chick brush

570

D rain, course N.E.

4000

Set a mark 15 x 8 x 8 ins. 10
ins. in the ground for $\frac{1}{4}$ sec. cor
mkd $\frac{1}{4}$ on W. face; dig pits

The Division of T24 NR 66.

15 x 18 x 12 ins N and S. of cor 3 ft.
dist. and raise a mound of
earth 3 1/2 ft. base, 1 1/2 ft high
W. of cor.

45.80

5 rain. course N.W.

46.00

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

80.00

Set a malspais stone 16 x 12 x 8
ins. 11 ins in the ground for
cor. of 2, 3 10 and 11 mked
with 2 notches on E. and
5 notches on S. edges; raise a
mound of stone 2 ft base, 1 1/2
ft high W. of cor. Pits unpracti-
cable.

hand rolling

Soil stony; 3 rd rate.

No timber.

Land covered with dense chie
and buck brush 85.00 chs.

Subdivision of T24NR4E

- A. 89° 42' E on a random line
bet secs. 2 and 11
- 40.00 Set term & sec. cor.
- 80.08 Intersect N and S 7 lks S. of cor.
of secs. 1, 2, 11 and 12.

Thence I run

- A 89° 41' E. on a random line
bet. secs. 1 and 12.
- 40.00 Set term & sec. cor.
- 81.13 Intersect E. bdy of Tp 5 lks N.
of cor. of secs. 1 and 12 pre-
viously described.

Thence I run

- S 89° 43' W. on a true line
bet secs. 1 and 12.
- Over rolling land through
chico and buck brush.
- 14.00 Drain course N.

Subdivision of T2, 4 N, R4 E

24.20

Drain, course N. E.

41.13

Set a molokai stone 14 x 9 x 5
 ins. 10 ins. in the ground for 4
 sec. cor. mkd 4 on N. face; dig
 pits 18 x 18 x 12 ins. E and W.
 of cor. 3 ft dist. and raise a
 mound of earth 3 1/2 ft base,
 1 1/2 ft high N. of cor; from which
 a pinor. 8 ins. in diam bears S
 33° 55' E 220 lbs dist mkd 4 S 12 13 T
 No other tree suitable in limits -
 Road, bears N. E. and S. W.

41.15

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

81.13

The cor. of secs. 12, 11 and 12.

Land rolling

Soil, 2rd and 4th rate.

Timber a few scattering
cedars and pinorsLand covered with dense chick
and buck brush 87.13

Subdivision of T24NR4E.

July 24, 1903 I set off $21^{\circ} 1' N$.
on decl arc and at $12^h 6' 15''$ ~~at~~ ^M
saw the sun on the meridian
the resulting latitude is
 $35^{\circ} 27''$ which is the latitude
nearly.

Continued Book 482

Concluded Book 479