

SUBDIVISION LINES

No 1.

T. 24 N., R. 8 E.

LAMPART.

No. 488

BOOK 488

4-671

FIELD NOTES
GENERAL LAND OFFICE.

488

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BOOK 488 and BOOK 489

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4-674.

Township 24 N. R. 8 E.

| | | | | | | | | | | |
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Field Notes
of the survey of the
Subdivisions
of
Tpc No. 24 N, Range No. 8 E.
of the
Gila and Salt River
Base and Meridian
in the
Territory of Arizona
as surveyed by
James A. Lamport
U.S. Deputy Surveyor.

Under his contract No. 98
Dated June 30, 1902

Survey commenced Sept 9, 1902
Survey completed Sept 26, 1902

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BOOK 488

Subdivisions of

Names + duties of Assistants

Fred O. Roberts Chairman

Archie McDermid "

John Pradt Axeman

Lester C. Lamport Flagman

Sp. 24 N, R. 8 E, (Subdivisions)

Survey commenced Sept 8, 1902, and executed with a W. & L. E. Gurley Transit, No. 15, with solar attachment. The horizontal limb is provided with two double verniers placed opposite to each other, reading to single minutes of arc, which is also the least count of the verniers of the latitude and declination arcs.

The instrument was examined, tested on the true meridian at Phoenix, found correct, and was approved by the Surveyor General for Arizona, in Summer of 1902.

Examine the adjustments of the transit and correct the level and collimation errors; then to test the solar apparatus by comparing its indications

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BOOK 488

Tp. 24 N., R. 8. E.

resulting from solar observations made during a.m. & p.m. hours, with a true meridian determined by observations on Polaris, & proceed as follows:

At the cor. of Secs. 1-2-35 & 36, on South bdy. of Tp, which is a lava stone $10 \times 14 \times 3$ ins. above ground, properly marked & witnessed and heretofore set by me,

Lat. $35^{\circ} 25' 28''$ N., Long. $111^{\circ} 27' 58''$ West,
 Set off $35^{\circ} 25'$ N. on the lat. arc;
 $5^{\circ} 48'$ N. on the decl. arc, and at 4 hr. 00 min. p.m. l.m.t., determine with the solar a true meridian, and mark a point thereof on a stone, firmly set in the ground, 5 chs. N. of the cor.

At 8 hrs. 20 min. p.m. l.m.t. by my watch which is correct, &

Sp. 24 N., R. & E.

observe Polaris at eastern elongation, in accordance with manual of Instructions, and mark a point in the line thus determined, on a plug driven in the ground, 5 chs. N. of my station. Sept. 8-1902.

Sept. 9. 1902. At 7 h. 30 m. a.m. l.m.t., I lay off the azimuth of Polaris $1^{\circ}29'$ to the West, and mark the true meridian thus determined, by cutting a small groove in the stone set Sept. 8, on which the true meridian falls .4' in, east of the mark determined by the solar.

At 8 hrs. m.m.s. a.m. l.m.t., I set off $35^{\circ}25'$ N. on the lat. arc, $5^{\circ}33'$ N. on the decl. arc, and mark a point on the true meridian determined with the solar, by a

Sp. 24 N., R. 8 E.

ones on the stone already set, 5 chs. N. of my station; this mark falls .25 ins. East of the true meridian established by the Polaris observation.

The solar apparatus by p.m. & a.m. observations, defines positions for true meridians respectively, about $21''$ N. & $13''$ E. of the meridian established by the Polaris observations; therefore I conclude the adjustments of the instrument are satisfactory.

The mag. bearing of the true meridian, at 8 hr. a.m. is $N. 14^{\circ} 40' N.$; the angle thus determined, reduced by table, p. 100, gives mean mag. decl. = $14^{\circ} 37' E.$

copy new here

Apr 24 N. R. S. Co.

Subdivisions of

ch^o

~~Sept 9th: at 7^h 5^m A.M. l.a.n.t.
I set off 35° 22' on the lat arc;
5-34 1/4 on the decl. arc, and
determine a true meridian
with the solar at the cor
of secs 1, 2, 35 and 36 on the
E. bdy of the Tfr, which is
a lava stone 14 x 3 ins, 6 ins
above ground marked with
1 notch on E & S on W. edges,
with bearing trees, previously
set by me.~~

North 0° 1' W. bet ^{secs} 35 + 36

Descend through dense
Pine, fir & cedar

40.00

Set a lava stone 16 x 10 x 8 ins
10 ins in ground for
1/4 sec. cor. marked 1/4 on
W. face. From which
a Pine 28 ins diam br

Apr 24 N. Range 8 E

chs

S 76° 00' E, 41 lks dist marked

1/4 S. 36 B. T.

A Pine 26 ins diam brs

S. 46° 10' W, 59 lks dist marked,

1/4 S. 35 B. T.

46.00

Ascend cinder slope brs

N. W. S. E.

80.00

Set lava stone 16 X 16 X 4 ins

10 ins in ground for cor

secs 25, 26, 35 and 36,

marked one notch on S. and

1 on E. edges. From which

A Piñon 5 ins diam brs N. 69° 00' E

71 lks dist marked,

T. 24 N. R. 8 E. S 25 B. T.

A Piñon 7 ins diam brs

S. 4° 10' E, 68 lks dist marked

T. 24 N. R. 8 E. S 36 B. T.

A Cedar 7 ins diam brs

S. 62° 20' W 72 lks. dist marked

Subdivisions of
chs

7.24 N. R 8 E S. 35-13.7.

A Cedar 8 ins diam tree

N. $78^{\circ}00'$ W. 44 lks dist marked

7.24 N. R 8 E S. 26 B. 7.

Land rolling and hilly

Soil volcanic cinders 4th rate

Timber Pine, Piñon & Cedar.

Heavy, dense timber

80,000 chains

East on random line

hit sec 25 and 36

40.00 Set temp 1/4 sec. cor.

80.46 Intersect E. bdy of Tfr

11 lks N. of cor sec 25, 30, 31 & 36.

Thence I run

N. $89^{\circ}33'$ W. on true line

hit sec 25 and 36.

9.72 Pine 18 ins diam on line

marked 2 notches on E + W. sides

Tfr. 24 N. R & E.

cls

20.22 Pine 20 ins diam to line
marked 2 notches on E & W. sides40.23 Set lava stone 18x16x6 ins
12 ins in ground for $\frac{1}{4}$ sec
cor. marked $\frac{1}{4}$ on N. face.Whence, a Pine 36 ins diam
brs. N. $5^{\circ}45'E$, 85 yds dist marked
 $\frac{1}{4}$ S. 23- B. Y.A Pine 32 ins diam brs
S. 23° , 26' W. 36 yds dist marked
 $\frac{1}{4}$ S. 36 B. Y.

70.00 Ascend

80.46 Cor sees 25, 26, 35 and 36.

Land rolling

Soil volcanic cin-
ders, 4th rate

Timber pine, fir, spruce & cedar.

Heavy dense timber

80.46 chains

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BOOK 488

Subdivisions of

chs

- North $0^{\circ} 1' W.$ bet sees 25 + 26,
Descending along N. W. slope
of cinders.
- 40.00 Set lava rock $24 \times 8 \times 4$ ins
17 ins in ground for $\frac{1}{4}$ sec
cor. marked $\frac{1}{4}$ on W. face.
A Pine 16 ins diam brs
N. $30^{\circ} 00' E$ 49 lks dist marked
 $\frac{1}{4} S 25 B. Y.$
A Pine 12 ins diam brs N. $15^{\circ} 15' W.$
77 lks dist marked $\frac{1}{4} S 26 B. Y.$
- 42.00 Ascend hill brs E. and W.
- 46.00 Top of same 60 ft high
Descend
- 80.00 Set lava rock $15 \times 10 \times 6$ ins, 10 ins
in the ground for cor sees
23, 24, 25 and 26 marked
with 2 notches on S. and
one on the E. edges.
A Pine 12 ins diam brs

Tfr. 24 N. R 8 E
 chs

N. $81^{\circ}00'$ E 174 lks dist, marked

T. 24 N. R. 8 E. S. 24 B.T.

A Pine 20 ins diam bre

S. $12^{\circ}30'$ E 145 lks dist, marked

T. 24 N. R 8 E S 25- B.T.

A Pine 15 ins diam bre

S $38^{\circ}00'$ W 173 lks dist, marked

T 24 N. R 8 E S 26 B.T.

A Pine 26 ins diam bre

N. $4^{\circ}00'$ W. 147 lks dist, marked.

T. 24 N. R. 8 E. S. 23 B.T.

Land rolling and hilly
 Soil volcanic cinders, 4th rate

Heavy pine, cedar & fir.

Dense growth timber

80.00 chains

Sept 9 1902

Sept-10, 1902

S. $89^{\circ}33'$ E on random line

bet secs 24 and 25;

40.00

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

Sept. 10. At 7 h. a.m. l.m.t. Set off 35° ^{8A}
 $27'$ N. on the lat. arc, $5^{\circ} 12'$ N on the
decl. arc, and determine the meridian
at the cor. of Secs - 23-24-25 & 26.

Phenice Iron

BOOK 488

Subdivisions of

- | | |
|--------------|--|
| chc 80.38 | Intersect E. bdy of Twp 28 lks South of cor secs 19, 24, 25 + 30 Thence I run S. 89° 3' 3" W on true line bet secs 24 and 25. |
| 3.00 | Enter cedar + fir on brs N. + S. |
| 13.00 | Leave chico brush brs N. E. and S. W. |
| 32.00 | Enter park with scattered cedars brs N. E. and S. W. |
| 40.19 | Set lava rock 20X12X6 ins, 14 ins in ground for 1/4 sec cor. marked 1/4 on N. face. A Pine 8 ins diam brs N. 47° 10' W 112 lks dist marked 1/4 S. 24 B P. A Pine 10 ins diam brs S. 50° 30' W 125 lks dist marked 1/4 S. 25 B P. |
| 57.00 | Leave park brs N. E. + S. W. Enter pine |
| 72.00 | Pine tree 20 ins diam on line marked 2 notches on E. + W. edges. |
| 80.38 | Cor. secs 23, 24, 25 and 26. |

Tfr. 24 N. R. & E.
chs

Land rolling

Soil 50chs cinders 4th rate, 30.38chs
2^d rate.

Pine & scattered cedar & piñon

Thick chico & dense timber

8038 chains

N. 0° 1' W. bet secs 23 and 24

through dense pine timber

Descend

40.00 Set lava rock 16x8x6 ins, 11 ins
in ground for 1/4 sec. cor.
marked 1/4 on W. face.

A pine 25 ins diam brs N. 73° 30' E

78 lks dist marked 1/4 S. 24 B. T.

A pine 10 ins diam brs S. 23° 25' W

103 lks dist marked 1/4 S. 23 B. T.

80.00 Set lava rock 30x14x5 ins

22 ins in ground for cor

secs 13, 14, 23 and 24 marked

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BOOK 488

chs

Subdivisions of

3 notches on S. & 1 on E. edges.

A fine 19 ins diam br N. $26^{\circ}30'E$

174 lks dist marked T. 24 N. R. 8 E. S. 13 B. T.

A fine 30 ins diam br

S. $7^{\circ}30'E$ 196 lks dist marked

T. 24 N. R. 8 E. S. 24 B. T.

A fine 27 ins diam br

S. $28^{\circ}45'N$. 165 lks dist, marked

T. 24 N. R. 8 E. S. 23 B. T.

A fine 22 ins diam br

N. $6^{\circ}30'N$ 179 lks dist marked

T. 24 N. R. 8 E. S. 14 B. T.

Land nearly level

Soil volcanic cinders 4th rate

Heavy pine timber.

Dense timber

80.00 chains

 N. $89^{\circ}3'3'E$ on random line
 bet secs 13 and 24

The 24 N. R. & E.

ctis

40.00 Set temp 1/4 sec. cor.

80.16 Intersect E. body of the 5 lks
S. of cov. secs 13, 18, 19 and 24
Thence I run

S. 89° 37' W. on a true line
bet secs 13 and 24, slightly
descending through brush & timber

40.08 Set lava rock 22x16x12 ins
16 ins in ground for 1/4 sec. cor
marked 1/4 on N. face.

A cedar 8 ins diam br N. 45° W.
94 lks, dist. marked 1/4 S 13 B, T.

(40) A pine 14 ins diam br S. 57° W
164 lks dist marked 1/4 S 24 B, T.

58.08 A piñon 12 ins diam on line
marked 2 notches on E. & W. edges

80.16 Cov. secs. 13, 14, 23 and 24
Land rolling

Soil 2^d rate

Timber pine, piñon & cedar.

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BOOK 488

chs

Subdivisions of

Dense timber & brush

80.16 chains

40.00

N. 0° 1' W. bet. secs 13 and 14

Over rolling land, through timber

Set lava rock 17x10x4 ins

11 ins in ground for 1/4 sec

cor. marked 1/4 on W. face.

A cedar 8 inches brs S. 88° 45' E

34 lks dist marked 1/4 S. 13 B.T.

A piñon 6 ins diam brs N. 59° 40' W

107 lks dist marked 1/4 S 14 B.T.

80.00

Set lava stone 18x8x8 ins, 12 ins

in ground for cor secs 11, 12, 13

and 14, marked 4 notches

on S. and 1 on E. edges, this

cor. on edge of hill brs E. & W.

A piñon 7 ins diam brs

N. 33° 10' E, 50 lks dist marked

T. 24 N. R. 8 E, S 12 B. T.

The 24 N. R. 8 E.
chs

A piñon 12 ins diam brs
S. $19^{\circ}30'E$ 44 lks dist marked
T. 24 N. R. 8 E. S 13 B. T.

A piñon 10 ins diam brs
S. $40^{\circ}20'N$ 83 lks dist, marked
T. 24 N. R. 8 E. S 14 B. T.

A piñon 12 ins diam brs
N. $20^{\circ}15'N$ 24 lks dist, marked
T. 24 N. R. 8 E. S. 11 B. T.

Land rolling

Soil domy and volcanic
cinders, 4th rate

Timber cedar, piñon & pine

Dense cedar & piñon and
scattered pines.

80.00 chains Sept. 10, 1902

N. $89^{\circ}51'E$ on random line
bet secs 12 and 13.

40.00

Sit temp 1/4 sec. cor.

14A

Sept. 11th = At 7 h. a.m. l.m.t. I set off
35° 28' N. on the lat. arc, 4° 49' N. on the
decl. arc, and determine the meridian
at the cor. of Secs. 11-12-13 & 14.

Thence Iron -

BOOK 488

Subdivisions of

chs
80,30

Intersect E. bdy of Tps 3lks
South of cor. secs. 7, 12, 13 & 18
Thence I run

S. $89^{\circ}30'W$, on true line bet
secs 12 and 13, through
dense timber & chico brush.

40,15

Set lava stone $24 \times 12 \times 8$ ins
17 ins in ground for $\frac{1}{4}$ sec.
cor. marked $\frac{1}{4}$ on N. face.

A pinon 5 ins diam brs S $28^{\circ}00'W$
69 lks dist. marked $\frac{1}{4}$ S. 13 13, T.

A cedar 12 ins diam brs N. $30^{\circ}00'W$
67 lks. dist marked $\frac{1}{4}$ S. 12 13, T.

51.30

Ascend cinder slope brs N. $70^{\circ}W$.
& S. $70^{\circ}E$.

78.00

Top of slope brs N. $70^{\circ}W$. & S. $70^{\circ}E$.

80,30

Cor secs. 11, 12, 13 and 14
Land level 51.30 chs, &
steep cinder slope 29.00 chs.

Soil volcanic cinders 4 th rate.

Tfr 24 N. R 80 BOOK 488

che

Dense pine, fir, cedar
& chico brush.

80.30 chains

N. 0° 1' W. bet. secs 11 and 12

Descend steep circular slope.

8.00 Foot of slope 250 ft. below sec. cor.
and descend slightly.

31.00 Foot of slope 325 ft. below sec. cor.
& ascend slope bet E. and W.

35.00 Top of slope 50 ft. high.

40.00 Set lava stone 17x13x10 ins
12 ins in ground for 1/4 sec. cor.
marked 1/4 S on W. face.

A cedar 12 ins diam bet N. 89° 45' E,
43 lks dist marked 1/4 S 12 B.T.

A cedar 10 ins diam bet S 32° 13' W
68. lks dist marked 1/4 S. 11 B.T.

52.00 Dry wash 30 lks wide course East.

80.00 Set lava stone 20x14x10 ins

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BOOK 488

chs

Subdivisions of

13 ins in ground for cor ccs
1, 2, 11 and 12, marked 5 notches
on S. and 1 on E. edges.

A cedar 7 ins diam br
N. 33° E, 87 lks dist marked
T. 24 N. R. 8 E. S. 1 B. T.

A cedar 5 ins diam br
S. 32° 15' E 47 lks dist marked
T. 24 N. R. 8 E. S. 12 B. T.

A cedar 6 ins diam br
S. 41° 45' N 44 lks dist marked
T. 24 N. R. 8 E. S. 11 B. T.

A cedar 6 ins diam br
N. 67° 45' W 126 lks dist, marked
T. 24 N. R. 8 E. S. 2 B. T.

Land 20 chs hilly, 60 chs rolling
Soil volcanic cinders, 4th rate
Timber fir + cedar.
Dense timber + brush
80,00 chs

Twp 24 N. R 8 E.

cls

N. $89^{\circ}5'0''$ E on random
line bet sec 1 and 1240.00 Set temp $\frac{1}{4}$ sec. cor.80.10 Intersect E. bdy of Twp 18
lks N. of cor. sec 1, 6, 7 & 12
Thence I runS. $89^{\circ}5'8''$ W on true line bet
sec 1 and 12, through
cedars and pines

14.00 Dry wash, 30 lks wide, course N. E.

15.30 Cedar 20 ins diam on line
marked 2 notches on E & W. sides

25.30 Old road br N. E. & S. W.

40.05 Set lava stone $12 \times 10 \times 4$ ins
This in ground for $\frac{1}{4}$ sec. cor.
marked $\frac{1}{4}$ on N. face, from which
A cedar 7 ins diam br N. $70^{\circ}45'$ W
92 lks dist marked $\frac{1}{4}$ S. 1 B, T,
A cedar 6 ins diam br S. 13° E.
35 lks dist, marked $\frac{1}{4}$ S 12 B, T,

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BOOK 488

chs

80.10

Subdivisions of

Cor secs 1, 2, 11 and 12.

Land rolling.

Soil stony 3rd rate

Dense cedar, piñon + brush

80.10 chains

North $0^{\circ} 1' W.$ on true line
bet sec 1 and 2, through
thick cedar and piñon, +
Rolling land 4th rate.

3.62 Trail to Tuba from Flagstaff
brs N. $25^{\circ} E.$

40.00 Set lava stone $20 \times 9 \times 8$ ins
14 ins in ground for
 $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on W.
face. From which
A cedar 11 ins diam brs N. $64^{\circ} 25' E.$
34 lks dist marked $\frac{1}{4}$ S. 1 B. T.
A cedar 7 ins diam brs S. $39^{\circ} W.$
27 lks dist marked $\frac{1}{4}$ S. 2 B. T.

Twp 24 N. R. 8 E.

chs

3-8.95

Intersect 6th Standard Parallel
 North ^{15.19} Chp E. of stand ^{1/4} Cor
~~North 24. states N. of cor sec~~
~~of sec 35.~~
~~12, 35 and 36,~~

Set a lava stone 18x10x8 ins
 12 ins in ground for C.C.
 sec 1 and 2 marked C.C. on S.
 with 1 groove on E. and 5 on
 N faces, from which
 A cedar 10 ins diam brs S. 63° E.
 71 lks dist marked T. 24 N. R. 8 E.
 S. 1 B. T.

A cedar 6 ins diam brs S. 30° 15' W.
 62 lks dist marked
 T. 24 N. R. 8 E. S. 2 B. T.

Land rolling
 Soil 4th rate volcanic
 cinders.

Timber fir + cedar,
 Dense timber 3-8.95-chs

Sept 11, 1902

Subdivisions of

chs

22A

From the cor. secs 2, 3, 34 +
35- on S. bdy of Twp. Iron
N 0° 1' W bet beds 34 + 35-.

Descend steep slope into
gulch, course N. N. W. through
thick timber.

24.00 Ascend along S. W. slope of
ridge 45-0 ft- below sec. cor.

40.00 Set lava stone 22 x 16 x 6 ins
15 ins in ground for $\frac{1}{4}$ sec.
cor. marked $\frac{1}{4}$ on W. face.

A pine 30 ins diam br N. 9° 15' E
65 lks dist marked $\frac{1}{4}$ S. 33 B. T.

A pine 28 ins diam br N. 65° 10' W
43 lks dist marked $\frac{1}{4}$ S. 34 B. T.

44.00 Highest point on slope
and descend N. E. slope of ridge.

80.00 Set lava stone 24 x 12 x 8 ins
18 ins in ground cor. secs
26, 27, 34 + 35- make 1 notch

T. 24 N. R. 8 E.
chs

on S. and 2 on E. edges. This
cor 500 ft below $\frac{1}{4}$ sec cor.

A cedar 8 ins diam br N. $73^{\circ}40'E$
19 lks dist marked

T. 24 N. R. 8 E. S 26 B. T.

A cedar 10 ins diam br
S. $60^{\circ}00'E$, 63 lks dist marked

T. 24 N. R. 8 E. S. 35 B. T.

A cedar 30 ins diam br
S. $34^{\circ}W$. 25 lks dist, marked

T. 24 N. R. 8 E. S 34 B. T.

A cedar 8 ins diam br
N. $7^{\circ}20'W$ 67 lks dist, marked

T. 24 N. R. 8 E. S. 27 B. T.

Land rough mountain slope
Soil 4th rate.

Timber pine, fir, cedar,
fir, aspen, and oak.

Chico + cedar brush and
mountainous 80.00 chs

Sept. 12th at 7h. a.m. l.m.t. I set off. 350⁰⁰
25' N. on lat. arc, 4° 26' N on decl. arc,
and determine the meridian at the
cor. of sec. 2-3-34935 on I. bdy of Sp.

BOOK 488

- Subdivisions of
- chs
- East on random line
bet sec 26 and 35:
- 40.00 Set temp $\frac{1}{4}$ sec. cor.
- 80.40 Intersect N. and S. line
at cor sec 25, 26, 35 + 36
Thence I run
N. on true line bet sec
26 and 35; over cinders
slightly ascending,
through dense timber
- 13.80 A fine 16 ins diam on
line marked 2 notches
on E. and W. faces
- 27.00 Ascend hill br N. W. + S. E.
- 31.00 Top of same 80 ft high
- 40.20 Set for pyry rock 16 x 8 x 8 ins
10 ins in ground for $\frac{1}{4}$ sec
cor marked $\frac{1}{4}$ on N. face
A fine 6 ins diam br N. 59° E
33 lks dist marked $\frac{1}{4}$ S. 26 B. T.

Tfr 24 N. R. 8 E.

chs

A cedar 7 ins diam brs S 14° 15' W
23 lks dist marked $\frac{1}{4}$ S 35° B. Y.

44.00 Ascend N. E. slope of
mountain spur.

80.40 To cor secs 26, 27, 34 + 35.
Land stony + mountainous.
Soil 3rd rate

Dense timber Pine, Piñon + Cedar
Fallen timber on line
Dense timber + mountainous
80.40 chains

North 0° 1' W bet secs 26 + 27

Descend steep rocky ridge.

30.00 Foot of same br N. W + S. E.

38.00 Pine 30 ins diam on line marked
2 notches on N + S. faces

40.00 Set lava stone 14 x 10 x 5 ins
9 ins in ground for $\frac{1}{4}$ sec cor
marked $\frac{1}{4}$ on N. face.

26

chs

BOOK 488

Subdivisions of

From which

- a fine 18 ins diam brs S. 4° E
96 lks dist marked $\frac{1}{4}$ S 26 B. T.
- A fine 16 ins diam brs S. $70^{\circ} 20'$ W.
109 lks dist marked $\frac{1}{4}$ S 27 B. T.
- 57.17 A fine 22 ins diam on line
marked 2 notches on N. + S. faces
- 80.00 Set limestone $18 \times 14 \times 6$ ins
12 ins in ground for cor
secs 22, 23, 26 + 27 marked
2 notches on S. and 2 on E.
edges. From which
- A fine 18 ins diam brs
N. $14^{\circ} 35'$ E 42 lks dist, marked
T. 24 N. R. 8 E. S 23 B. T.
- A fine 22 ins diam brs
S. $45^{\circ} 15'$ E 60 lks dist marked
T. 24 N. R. 8 E. S 26, B. T.
- A fine 20 ins brs S. $16^{\circ} 35'$ W
134 lks dist marked

Tfr 24 N. R. 8 E.
chs

T. 24 N. R. 8 E. S 27 B. T.
A fine 22 ins diam tree
N. $43^{\circ}54'$ W 239 lks dist, marked
T. 24 N. R 8 E S. 22 B. T.
Land mountainous
Soil stony 3rd rate
Pine, fir, cedar + cedar timber
Chico brush + fallen + standing
timber 80.00 chains
Sept-12, 1902

East on a random
line bet secs 23 and 26
40.00 Set temp $\frac{1}{4}$ sec. cor.
80.40 Intersect N. and S. line
22 lks N. of cor. secs 23, 24,
25 + 26, thence I run
N. $89^{\circ}51'$ W on true line
bet secs 23 and 26
through dense timber.
2.25 Pine 20 ins diam on line

Sept. 13. at 7h. a.m. l.m.t. set off ^{20A}
35° 27' N. on the lat. arc, 4° 3' N. on
the decl. arc, and determine the meri-
dian with the solar at the cor of
Decs 22-23-26 & 27.
Hence True.

BOOK 488

- Subdivisions of
chs
- 3.5-7 A fine 12 ins diam on line
marked 2 notches on E + W. sides
- 6.85 A fine 16 ins diam on line
marked 2 notches on E + W. sides
- 14.38 A fine 32 ins diam on line
marked 2 notches on E + W. sides
- 40.20 Set lava stone 18x18x8 ins
12 ins in ground for $\frac{1}{4}$ sec
cor. marked $\frac{1}{4}$ on N. face
A fine 30 ins diam brs N. 26 $^{\circ}$ 14' W
92 lks dist marked $\frac{1}{4}$ S 23 B. Y.
A fine 34 ins diam brs S. 35 $^{\circ}$ 37' E
72 lks dist marked $\frac{1}{4}$ S 26 B. Y.
- 80.40 Cor sec 22, 23, 26 and 27
Land rolling
Soil cinders, 4th rate
Timber pine, fir, + cedar.
Dense timber
80.40 chairs

Twp. 24 N. R. 8 E.

chs

North 0' 1' W. bet. sec 22 and 23

30.30 A fine 14 ins diam on line
marked 2 notches on N. & S. sides40.00 Set lava stone 16x12x6 ins
11 ins in ground for $\frac{1}{4}$ sec.
cor. marked $\frac{1}{4}$ on W. faceA fine 18 ins diam brs S. 27° 30' E
87 lks dist marked $\frac{1}{4}$ S. 23 B. T.A fine 14 ins diam br N. 65° 25' W
73 lks dist, marked $\frac{1}{4}$ S. 22 B. T.51.22 A fine 24 ins diam on line
marked 2 notches on N. & S. faces80.00 Set a lava stone 17x10x6 ins
11 ins in ground for cor sec
14, 15, 22 & 23 mark 3 notches
on S. and 2 on E. edges
A fine 32 ins diam brs N. 57° E
29 lks dist marked

T. 24 N. R. 8 E. S. 14 B. T.

A fine 26 ins diam brs

30

BOOK 488

Subdivisions of
chs

S. 44° E. 72 lks dist marked

T. 24 N. R. 8 E. S. 23 B. T.

A fine 29 ins diam brs

S. 53° W. 168 lks dist marked

T. 24 N. R. 8 E. S. 22 B. T.

A fine 27 ins diam brs

N. 15° 30' W. 123 lks dist. marked

T. 24 N. R. 8 E. S. 15 B. T.

Land rolling

Soil volcanic cinders, 4th rate.

Timber fine and cedar

Dense timber 80.00 chs

58 89° 51' W. on random line
bet secs 14 and 23

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

80.28 Intersect N. and S. line 20 lks

S. of cor secs 13, 14, 23 and 24

Thence I run

West on true line bet secs

Tfr. 24 N. R. 8 E.

chs

14 and 23 through dense
timber pine & cedar

14.12 A pine 7 ins diam on line
marked 2 notches on E & W. sides

40.14 Set lava stone 18x10x10 ins
12 ins in ground for $\frac{1}{4}$ sec
cor. marked $\frac{1}{4}$ on N. face.

A pine 10 ins diam br N. $5^{\circ} 30' E$
59 lks dist marked $\frac{1}{4}$ S. 14. 13. 7.

A pine 12 ins diam br S. $39^{\circ} E$
71 lks dist marked $\frac{1}{4}$ S 23 13. 7.

64.05 Pine 12 ins diam on line
marked 2 notches on E & W. sides

80.28 Cor. sec 14, 13, 22 and 23

Land rolling
Soil volcanic cinders
4th rate.

Timber pine and cedar.

Dense timber

80.28 chains

32

BOOK 488

- Subdivisions of
 che
- North 0° 1' W. bet sec 14 and 15-
 through Chico brush.
- 39.00 Enter scattered cedar + piñon
 bet N. E. and S. W.
- 40.00 Set lava stone 12X12X8 ins
 8 ins in ground for 1/4 sec
 cor. marked 1/4 on W. face.
 A fine 16 ins diam br S. 66° 30' E
 177 lks dist marked 1/4 S. 14° 13' N.
- A cedar 9 ins diam br N. 76° 45' W
 115 lks dist marked 1/4 S 15° 13' N.
- 45.00 Enter dense cedar + piñon bet N. E. + S. W.
- 49.00 A fine 22 ins diam on line
 marked 2 notches on N + S. sides
- 5-8.82 A fine 10 ins diam on line
 marked 2 notches on N + S. faces
- 66.00 Descend slope bet N. E. + S. W.
- 79.00 Descend steep slope bet E. + W.
- 80.00 Set lava stone 16X14X9 ins
 11 ins in ground for cor

Tfr 24 N. R 8 E.
 chs

secs. 10, 11, 14 and 15 marked
 4 notches on S, & 2 on E, edges.
 Cor. 300 ft below top of slope.

A cedar 27 ins diam brs
 S. $11^{\circ}15'$ E, 334 lbs dist marked
 T. 24 N. R. 8 E. S 14 B. Y.

A cedar 20 ins diam brs
 N. $57^{\circ}30'$ W, 365 lbs dist. marked
 T 24 N. R 8 E. S 10 B. Y.

No other trees available

Raise mound of stone 2 ft
 base, $1\frac{1}{2}$ ft high W. of cor.

Land ^{quite impracticable} rolling & hilly

Soil volcanic cinders, 4th rate

Timber pine, piñon & cedar.

Dense timber & chico brush

80.00 ^{charino}
Sept 13, 1902

East on a random line
 bet secs 11 and 14,

32A

Sept. 14th at 7h. a.m. l.m.t. Set off
35° 28' N. on the lat. arc, 3° 40' N on
the decl. arc, and determine the
meridian at cor. of Decs. 10-11-14 & 15.
Thence Trun.

BOOK 488

- Subdivisions of
 chs
- 40.00 Set temp $\frac{1}{4}$ sec. cor.
- 80.20 Intersect N. and S. line at
 cor sec 11, 12, 13 and 14
 Thence I run
 best on true line bet sec 11 + 14
 over onto land, through
 timber, along N. slope
 of mesa 2 chs from, and
 50 ft. below top, + 200 ft above
 bottom of mesa.
- 40.10 Set lava stone 24 X 12 X 8 ins
 18 ins in ground for $\frac{1}{4}$ sec. cor.
 marked $\frac{1}{4}$ on N. face, where
 a pinon 14 ins diam br
 $N. 3^{\circ} 30' E$ 60 lks dist marked
 $\frac{1}{4}$ S. 11 B. Y.
- A cedar 8 ins diam br S. $40^{\circ} E$.
 18 lks dist marked $\frac{1}{4}$ S. 14 B. Y.
- 42.00 Wash down slope mesa, bet N. + S,
 15 ft deep + 75 lks wide

Tr 24 N. R. & E.

chs

75.00

Descend side of mesa, br S. 45³⁰
200 ft to

80.20

cor sees 10, 11, 14 and 15

Land mts 80.20 chs

Soil fine volcanic cinders

Timber piñon, cedar &
scrub pine.

Mts & timber 80.20 chs

North 0' N. bet sees 10 and 11.

Descend steep slope br N. E. + S. W.

8.75

Edge of cañon course N. E.

11.50

Bottom of cañon

13.00

Ascend N. side of cañon

17.00

Leave cañon 8.25 chs wide

& descend to wash course N. E.

24.00

Leave ravine, 7 chs wide

40.00

Set lava stone 14X14X12 in

pin in ground for $\frac{1}{4}$ cor

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

chc Subdivisions of

- A cedar 5 ins diam brs S 30° 5' E
10 lks dist marked 1/4 S 11 B. T.
- A cedar 6 ins diam brs S. 63° 15' W.
47 lks dist marked 1/4 S 10 B. T.
- Ascend slope brs. E. and W.
61.00 Top of ridge brs E + W. Descend
73.00 Foot of slope 30 ft. below top.
80.00 Set lava stone 26 X 20 X 10 ins
14 ins in ground for cor. sec
2, 3, 10 and 11, marked 5 notches
on S. and 2 on E. edges.
- A cedar 6 ins diam brs N. 13° 15' E
41 lks dist marked T. 24 N. R. 8 E. S. 2 B. T.
- A cedar 5 ins diam brs S. 75° 30' E 14 1/2 lks
dist marked T. 24 N. R. 8 E. S. 11 B. T.
- A piñon 5 ins diam brs S. 51° W.
15 lks dist marked T. 24 N. R. 8 E. S. 10 B. T.
- A cedar 7 ins diam brs N. 24° 45' W
106 lks dist marked T. 24 N. R. 8 S. 3 B. T.
- Land rolling & hilly

Tr 24 N. R. 8 E.
cls

Soil volcanic cinders, 4th rate
Timber cedar and piñon
Mountains + timber
80.00 chains

East on random line bet
secs 2 and 11

40.00 Set temp 1/4 sec cor.

80.20 Intersect N. + S. line at cor. secs
1, 2, 11 and 12; thence I run
West on true line bet secs 2 + 11

30.00 Ascend slope of mesa bet N. + S.

40.10 Set lava stone 22x12x12 ins, 16 ins
in ground for 1/4 sec cor, marked
1/4 on N. face. from which
A piñon 7 ins diam bet N. 14° 10' W
90 lks dist marked 1/4 S. 2 13. T.
A piñon 9 ins diam bet S. 19° 15' W
63 lks dist marked 1/4 S. 11 13. T.

45.00 Top of mesa 75 ft high bet N. E. + S. W.

Subdivisions of

ch^o

- Old ruins on line + descend
slope br E. S.E. + W. N.W.
- 51.00 Bottom of slope br S.E. + N.W. Ascend
- 55.00 Top of slope 50 ft high br E S.E. + W. N.W.
- 80.20 Cov. secs. 2, 3, 10 and 11
Land hilly + rolling
Soil volcanic cinders 4th rate.
Timber cedar + fir on
Mts and dense timber
80.20 chains
-

- N. 0° 1' W. bet secs 2 and 3
through thick cedar + fir on
and bunch grass
Rolling 4th rate ground.
- 13.00 Dry wash 75 lks wide 4 ft deep
course N. 45° E. Ascend
- 21.00 Top of ascent 30 ft above bottom
br N. 45° E. Rolling land
- 33.00 Dry wash 20 ft deep, 125 lks

Twp 24 N. R 8 E.

chis

wide course N. 45° E.

35.00

Top of ascent 20 ft above bottom
br N. 45° E. Line runs along E rim
of mesa br N to S. Slight descent.

40.00

Set malapai stone 16x10x6 ins
10 ins in ground for 1/4 sec
cor. marked 1/4 on W. face
A cedar 5 ins diam br S. 38° 30' E
11 lks dist marked 1/4 S 2 B. T.
A cedar 6 ins diam br S. 42° 30' W
26 lks dist marked 1/4 S. 3 B. T.

49.50

Descend rim of mesa br N. 45° E.

58.50

Foot of same 125 ft below top br N. 45° E

59.16

Intersect 6th standard parallel

15.22

~~N. 24.78 chis N. of sec cor.~~
^{15.22 Chis East of Stand 1/4 cor. Sec. 34}

East of stand

1/4 corner Sec 34

Set a malapai stone 22x13x10 ins
1/4 corner Sec 34 6 ins in ground for closing
cor to secs 2 and 3, marked
C.C. on S. face with 2 notches
on E + 4 on W. faces, from which

40

BOOK 488

chs

Subdivisions of

A piñon 6 ins diam brs S. 64° 45' E
 71 lks dist marked T 24 N. R 8 E S 2 B. T.
 A cedar 5 ins diam brs S. 68° 13' W
 42 lks dist marked T 24 N. R 8 E. S. 3 B. T.
 Land 40 chs cuts: 19. 16 chs rolling
 Soil 4th rate
 Timber Cedar & piñon
 Mountainous & dense timber
59.16 chains Sept 14, 1902

40A

From cor sec 3, 4, 33 + 34
 on S. Bdy of Tfr. I run
 North 0° 2' W bet sec 33 + 34
 Descend

40.00

Set a granite stone 15 X 10 X 8 ins
 10 ins in ground for 1/4 sec.
 cor. marked 1/4 on W. face.
 A fine 18 ins diam brs S. 82° 23' E
 95 lks dist marked 1/4 S 34 B. T.
 A fine 24 ins diam brs S 17° 30' W

T₂₄ N. R. 8 E.

che

51 lks dist marked $\frac{1}{4}$ S 33 B. T.71.00 Descend steep rocky hill b^r E. + W.80.00 Foot of hill 70 ft high, set
Lava stone 24x8x5 ins, 18 ins in
ground for cor secs 27, 28, 33 + 34
marked 1 notch on S. + 3 on E. edgesA pine 8 ins diam b^r N. 54° 15' E

128 lks dist marked T. 24 N. R. 8 E. S. 27 B. T.

A pine 10 ins diam b^r S 61° 40' E

160 lks dist marked T. 24 N. R. 8 E. S. 34 B. T.

A pine 28 ins diam b^r S. 30° 20' W.

77 lks dist marked T. 24 N. R. 8 E. S. 33 B. T.

A pine 6 ins b^r N. 44° 25' W. 15-5 lks

dist marked T. 24 N. R. 8 E. S. 28 B. T.

Land rolling + broken

Soil stony 3rd rate.

Timber pine + cedar.

Dense timber and

mountainous 80.00 che

Sept. 15: at 7 h. a. m. l. m. t. I set off 35°
 $25'$ N. on the lat. arc, $3^{\circ} 17'$ N on
the decl. arc, & determine the meridian
at cor. of secs. 3-4-33 & 34 on T. bdy of Sp.

BOOK 488

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BOOK 488

Subdivision of

chs

- East on a random line
bet secs 27 + 34 over
mountainous land.
- 40.00 Set temp $\frac{1}{4}$ sec. cor.
- 80.44 Intersect N. and S. line 10 lks
north of cor secs 26, 27, 34 + 35.
Thence I run
N. $89^{\circ}56'$ W on true line bet
secs 27 and 34
Ascend ridge bet N. + S.
- 2.00 Top of ridge 30 ft. above cor.
- 3.00 Descend western slope of same
- 11.00 Foot of slope 150 ft. below top
- 33.00 Leave timber bet N. and S.
- 40.22 Set lava stone 15' X 10' X 8 ins
10 ins in ground for
 $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on
N. face, from which
a fine 20 ins diam brs
N. $70^{\circ}55'$ E 603 lks dist marked

chs Tfr 24 N. R. 8 E.

$\frac{1}{4}$ S 27 13. T.

A fine 6 ins diam br S. 27° 45' E
395 lks dist marked $\frac{1}{4}$ S. 34 13. T.

80.44 Cor secs 27, 28, 33 and 34

Land broken and hilly
Soil stony 3rd rate

Timber pine + cedar

Dense timber + chico and
mountainous 80.44 chs

N. 0° 2' W. bet secs 27 and 28

40.00

Set lava stone 22 X 2 X 4 ins
18 ins in ground for $\frac{1}{4}$ sec.
cor. marked $\frac{1}{4}$ on W. face.

A cedar 4 ins diam br S. 31° 30' E
16 lks dist marked $\frac{1}{4}$ S 27 13. T.

A piñon 4 ins diam br S. 38° 45' W
107 lks dist marked $\frac{1}{4}$ S. 28 13. T.

80.00

Set a lava stone 24 X 14 X 6 ins
18 ins in ground for cor.

Subdivisions of
chs

secs 21, 22, 27 and 28 marked
2 notches on S. + 3 on E. edges.
A cedar 10 ins diameter N. 59° 30' E
592 lks dist marked S. 24 N. R 8 E. S. 22 139
No other trees within limit.
Build a md of stone 2 ft base
1 1/2 ft high N. of cor. Pits impracticable
Land rolling + hilly
Soil stony 4th rate.
Timber cedar + fir on
mountainous + timber.
80,000 chains

S. 89° 36' E on random line
bet secs 22 and 27
through pine + dense cedar
40,000 Set temp 1/4 sec. cor.
80,400 Intersect N. + S. line 9 lks
S. of cor secs 22, 23, 26 + 27
Thence I run

Twp 24 N. R. 8 E.

chs

West on true line bet secs 22 + 27

9.64 A fine 12 ins diam on line
marked 2 notches on E. & W. sides40.20 Set a lava stone 18 X 10 X 5 ins, 12 ins
in ground for $\frac{1}{4}$ sec cor. marked
 $\frac{1}{4}$ on N. face, from which
A cedar 10 ins diam brs S. $43^{\circ}15'E$
177 lks dist marked $\frac{1}{4}$ S. 27 B. T.
A fine 24 ins diam brs N. $36^{\circ}45'W$
325 lks dist marked $\frac{1}{4}$ S. 22 B. T.

80.40 Cor. secs. 21, 22, 27 and 28.

Land rolling

Soil volcanic cinders 4th rate.

Timber pines & cedar

Dense timber 80.40 chs
Sept. 13, 1902N. $0^{\circ}2'W$. bet secs 21 and 22
through dense timber & into land9.00 Cedar 10 ins diam on line marked
2 notches on N. & S. faces

44A

Sept. 16th at 7 h. a.m. l.m.t. Post off 35^o
27' N on lat. arc, 2° 54' N on the
decl. arc, and determine the meridian
at cor of secs. 21-22-27 & 28.

Hence True

BOOK 488

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BOOK 488

Subdivisions of
chs

- 10.56 a cedar 8 ins diam on line
marked 2 notches on N. + S. faces
- 38.50 Descend steep slope br. E. + W.
- 40.00 Set lava stone 15X10X6 ins 10 ins
in ground for $\frac{1}{4}$ sec. cor.
marked $\frac{1}{4}$ on W. face
A cedar 10 ins diam br. N. $88^{\circ}45'E$
325 lks dist marked $\frac{1}{4}$ S. 22 B.P.
No other trees within limit
Build mid of stone 2 ft base
 $1\frac{1}{2}$ ft high W. of cor.
- 46.90 Foot of descent 75 ft below top
in wash course E. Ascend slope
- 56.00 Top of slope br. E. and W.
- 80.00 Set lava stone 23X16X10 ins
17 ins in ground for cor
secs 15, 16, 21 and 22, marked
3 notches on S. + 3 on E. edges.
A cedar 8 ins diam br. N. $86^{\circ}30'E$
250 lks dist marked T. 24 N. R 8 E. S. 15 13.5.

the Twp 24 N. R. 8 E.

A cedar 6 ins diam brs S. 62° E. 117 lks
dist marked T. 24 N. R. 8 E. S. 22 1/2 B. T.

A pinon 9 ins diam brs N. 15° W. 234 lks
dist marked T. 24 N. R. 8 E. S. 16 1/2 B. T.

No other trees within limit.

Build mid of stone 2 ft base
1 1/2 ft high W of cor.

Land mountainous.

Soil stony, 4th rate.

Timber cedar and pinon
Mountainous & dense timber

80.00 chains

East on random line bet sec 15 + 22

40.00 Set temp 1/4 sec. cor.

80.16 Intersect N. and S. line 16 lks N. of
cor sec 14, 15, 22 + 23, thence

N. 89° 3' 30" on true line bet sec 15 + 22

through dense cedar + pinon

40.08 Set lava stone 14x12x9 ins, 9 ins

Subdivisions of
chs

in ground for $\frac{1}{4}$ sec. cor.
marked $\frac{1}{4}$ on N. face; from which
A cedar 6 ins diam brs N. 20° E.
^{16 lbs diet}
marked $\frac{1}{4}$ S. 13-13, T.

A cedar 10 ins diam brs S. 85° W

45.00

7 lbs diet marked $\frac{1}{4}$ S. 22 13, T.
Wash 50 lbs. wide, course NE

80.16

Cov secs 15, 16, 21 and 22.

Land rolling

Soil stony 4th rate.

Dense cedar & fir on

80.16 chains

N. 0° 2' W. bet secs 15 & 16

5.5-5- Cedar 6 ins diam on line
marked 2 notches on N. & S. sides

7.00 A cedar 8 ins diam on line
marked 2 notches on N. & S. sides

14.5-5- A cedar 8 ins diam on line
marked 2 notches on N. & S. sides

24.00 Descend bluff brs. N. E. & S. W.

Tr 24 N. R 8 E

che

- 29.00 Foot of slope 75 ft below top
- 30.5-7 Cedar 9 ins diam on line marked
2 notches on N. & S. sides
- 40.00 Set lava stone 24x14x8 ins
18 ins in ground for $\frac{1}{4}$ sec. cor
marked $\frac{1}{4}$ on N. face, whence
a cedar 6 ins diam brs S. $78^{\circ}30'E$
28 lks dist marked $\frac{1}{4}$ S. 15 B. T.
A cedar 5 ins diam brs N. $88^{\circ}15'W$
76 lks dist marked $\frac{1}{4}$ S. 16 B. T.
- 41.00 A piñon 4 ins diam on line
marked 2 notches on N. & S. sides
- 60.63- A cedar 4 ins diam on line
marked 2 notches on N. & S. sides
- 61.30 Cañon, course East
- 72.00 Bottom of cañon 75 ft deep course N. $70^{\circ}E$
- 73.50 Lava dyke 20 ft high.
- 76.00 Lean cañon 14.30 chs. wide
- 80.00 Set lava stone 22x14x8 ins
16 ins in ground for cor sec

50

BOOK 488

Subdivisions of
chs

9, 10, 15 and 16 marked 4 notches
on S. and 3 on E. edges, whence
A cedar 9 ins diam brs
N. $49^{\circ}15'E$, 12 lks dist marked
T. 24 N. R. 8 E. S. 10 B. T.

A cedar 6 ins diam brs
S. $64^{\circ}30'E$ 5.5 lks dist marked
T. 24 N. R. 8 E. S. 15 B. T.

A cedar 5 ins diam brs
S. $63^{\circ}W$. 7.8 lks dist marked
T. 24 N. R. 8 E. S. 16 B. T.

A cedar 5 ins diam brs
N. $5^{\circ}45'W$ 37 lks dist marked
T. 24 N. R. 8 E. S. 9 B. T.

Land hilly and rolling
soil stony 4th rate.

Dense cedar and
firion 80.00 chs

✓
Out.

Sept 16, 1902

Tfr 24 N. R. & E.

che

S. $89^{\circ}5'38''$ on random line
bet secs 10 and 15

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

80.46 Intersect N. + S. line 9 lks S. of cor.
secs 10, 11, 14 and 15; thence run
N. $89^{\circ}5'7''$ on true line bet secs 10 + 15
through dense timber

15.00 Descend steep slope b're N.E. + SW

17.50 Bottom of slope 100 ft. below top
in box cañon 20 lks wide. Ascend.

20.00 Leave cañon, course N. E.

40.23 Set lava stone $20 \times 18 \times 8$ ins 14 ins
in ground for $\frac{1}{4}$ sec. cor. marked
 $\frac{1}{4}$ on N. face; from which
a pinon 10 ins diam b're N. $42^{\circ}30' E$
58 lks dist marked $\frac{1}{4}$ S. 10 B. T.
A cedar 7 ins diam b're S. $57^{\circ}30' E$
84 lks dist marked $\frac{1}{4}$ S. 15 B. T.

80.46 Cor sec 9, 10, 13 and 16
Land hilly and rolling

5-2

BOOK 488

Subdivisions of
chs

Soil stony 4th rate.
Dense cedar and pinon
80.46 chains

- N. 0° 3' W bet sec 9 and 10
through thick cedar & pinon
and chico brush, 4th rate
Rolling ground sloping E
40.00 Set malapai stone 20x12x8
ins 14 ins in ground for
1/4 sec. cor. marked 1/4 on W. face
A cedar 5 ins diam br N. 4° 45' E
48 lks dist marked 1/4 S 10 B. Y.
A cedar 5 ins diam br N. 37° 45' W
81 lks dist marked 1/4 S. 9 B. Y.
75.00 Leave thick cedar & pinon;
timber scattered.
80.00 Set malapai stone 20x10x8 ins
14 ins in ground for cor. sec
3, 4, 9 and 10, marked

Apr 24 N. R. & E.
chs

5 notches on S. + 3 on E edges.
raise mound of stone 2 ft base
1 1/2 ft high N. of cor. from which
A piñon 10 ins diam brs
N. $44^{\circ}30'E$ 231 lks dist marked
T. 24 N. R. & E. S. 3 B. Y.

A cedar 6 ins diam brs
S. $12^{\circ}15'W$ 130 lks dist marked
T. 24 N. R. & E. S. 9 B. Y.

A cedar 18 ins diam brs
N. $82^{\circ}15'W$ 336 lks. dist. marked
T. 24 N. R. & E. S. 4 B. Y.

Land rolling
Soil 4_{th} rate.
Dense cedar & piñon and
chico brush 80.00 chs

S. $89^{\circ}57'E$ on a random line
bet secs 3 and 10.

40.00

Set temp 1/4 sec. cor.

5-4

BOOK 488

Subdivisions of
chico

80.48 Intersect N. + S. line 7 lks. S. of
cor secs 2, 3, 10 and 11. Thence
W. on true line bet secs 3 + 10.

over rolling 4th class ground
through scattered timber ^{dense} & chico.

40.24 Set ^{brush} lava stone 16x10x10 in, 10 in
in ground for 1/4 sec. cor.

marked 1/4 on N. face, whence
a cedar 5 ins diameter N 0° 45' E
56 lks dist marked 1/4 S. 3 B. T.

a cedar 4 ins diameter S. 33° W.
46 lks dist marked 1/4 S. 10 B. T.

80.48 Cor secs 3, 4, 9 and 10

Land rolling

Soil 4th rate, dense
Chico brush + scattered
timber 80.48 chains

N. 0° 2' W on true line bet secs 3 + 4.
over rolling ground and

chv Tfr 2-4 N. R. & E.

scattered cedars - chco bunch.

19.00 Descend N. slope of mesa, brs E & W.

27.00 wash br N. 45° E; 5 lks wide & 10 ft deep.

40.00 Set lava stone $18 \times 14 \times 10$ ins, 12 ins
in ground for $\frac{1}{4}$ sec. cor. marked

$\frac{1}{4}$ on W. face. from which
a pinion 8 ins diam brs N. $67^{\circ} 45'$ E
50 lks dist marked $\frac{1}{4}$ S. 3 B. J.

A cedar 6 ins diam brs N. 52° W.
9 lks dist marked $\frac{1}{4}$ S. 4 B. J.

56.00 Foot. of descent.

~~59.74~~
59.70 Intersect $\frac{1}{2}$ the standard parallel
and 15.48 chs E. of Stand $\frac{1}{4}$ Cor. sec 33
N. ~~24 5 2 chs. W. of cor. sec 33 34~~

Set malapai stone $14 \times 12 \times 6$ ins
9 ins in ground for closing cor.
secs 3 and 4, marked C.C. on
S. face, with 3 grooves on E. & W.
edges. from which
a cedar 8 ins diam brs
S. $83^{\circ} 30'$ E, 96 lks dist marked.

5-6

Subdivisions of
chs

T. 24 N. R. 8 E. S. 3 B. 7.

A finion 4 ins diam brs
S 35° 45' W 27 lks dist marked

T. 24 N. R. 8 E. S. 4 B. 7.

Land 26 chs rolling; 34. ~~34~~ chs mts

Soil 2d and 4th rate

Timber scattered cedar + finion.

Chico brush, timber + mts

56A

5-9? ~~9~~ chais Sept 16, 1902

From cor sec 4, 5, 32 + 33 on S. bdy Drun

N. 0 3' W. bet secs. 32 and 33

Descend N. W. slope of lava moun-
tain, in dense cedars.

32.00 Foot of mountain + leave
timber brs N. E. + S W.

40.00 Set lava stone 24 X 12 X 4 ins
18 ins in ground for 1/4 sec
cor. marked 1/4 on W. face;
raise mound of stone
2 ft base 1 1/2 ft high W. of cor.

Apr 24 N. R. & E.
class

A cedar 8 ins diameter S. 83° W.
400 lks dist marked $\frac{1}{4}$ S 32 B. Y.
80.00 Set lava stone 26x10x6 ins 20 ins
in ground for cor sec 28, 29, 32 & 33
marked 1 notch on S. & 4 on E. edges.
raise mound of stone 2 ft base
 $1\frac{1}{2}$ ft high W. of cor. Pile impracticable
Land rough out slope 32,000 chs.
" rolling 48.00 chs.
Soil stony & cinders 4 th rate.
Timber cedars.
Cedars & mts land 32,00 chs

Cast on random line bet sec 28 & 33
40.00 Set temp $\frac{1}{4}$ sec. cor.
80.40 Intersect N. & S. line 20 lks S. of
cor. sec 27, 28, 33 and 34
Thence I run
N. $89^{\circ} 51'$ W. on true line bet
sec 28 and 33, along N. W.

Sept. 17th at 7 h. a.m. l.m.t. I set off 35°
 $25'$ N. on the lat. arc, $2^{\circ} 31'$ N on the
decl. arc, and determine the meridian
at the cor. of sec. 4-5-32 x 33 on T. 44 of Sp.

BOOK 488

5-8

BOOK 488

che Subdivisions of

- slope of hill.
- 12.00 Leave hill br N.E. + S.W. + bear timber
- 39.80 Enter cedar thicket br N. + S.
- 40.20 Sit lava stone 15' X 10' X 8' ins
9 ins in ground for $\frac{1}{4}$ sec. cor.
marked $\frac{1}{4}$ on N. face; from which
A cedar 14 ins diam br S. 20° W.
20 lks dist marked $\frac{1}{4}$ S 33 B. Y.
A pinon 5 ins diam br N. 38° 50' W
192 lks dist marked $\frac{1}{4}$ S. 28 B. Y.
- 45.00 A cedar 4 ins diam on line
marked 2 notches on E. + W. sides.
- 5-3.50 Leave timber br N. + S.
- 50.40 Cor sec 28, 29, 32 and 33
Land rolling
Soil stony 3rd rate
Dense cedars 25.70 che

58A

N. 0° 3' W. bet sec 28 + 29
Over level ground.

Tfr 24 N. R. 8 E.

ch
40.00

Set lava stone 15X12X3 ins
9 ins in ground for $\frac{1}{4}$ sec. cor.
marked $\frac{1}{4}$ on N. face: raise
mound of stone 2 ft base $1\frac{1}{2}$ ft
high N. of cor. Pits impracticable

80.00

Set lava stone 20X8X8 ins, 14 ins
in ground for cor. secs 20, 21,
28 & 29, marked 2 notches on
S. & 4 on E. edges; raise mound
of stone 2 ft base $1\frac{1}{2}$ ft high N. of cor.
Pits impracticable
Land level.

Soil stony 4th rate

No timber

S. 89.51' E on random line
bet secs 21 and 28.

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

80.08 Intersect N. & S. line 25-1/2 S.
of cor. secs 21, 22, 27 & 28.

(Dec 28-29-32+33)

Sept. 17" at this cor. I set off $2^{\circ}25' N$
on the decl. arc, and at 12h 5m. p.m. l.m.t.
observe the Sun on the meridian; the
resulting latitude is $35^{\circ}26'30'' N$, which
is the true lat. nearly

BOOK 488

60

BOOK 488

Subdivisions T. 24 N. R. 8 E.
chs

- Thence I run
S. $89^{\circ}58'W$ on true line bet
secs 21 and 28
- 4.00 Descend steep western
slope of mesa.
- 9.50 Foot of same, bet N. & S.
- 40.04 Set lava stone $16 \times 12 \times 8$ ins
10 ins in ground for $\frac{1}{4}$ sec.
Cor. marked $\frac{1}{4}$ on N. face.
raise mound of stone
2 ft. base $1\frac{1}{2}$ ft. high N. of cor.
Pits impracticable.
- 80.08 Cor. secs 20, 21, 28 & 29.
Land rolling & hilly
Soil stony 3rd rate.
No timber Sept 17, 1902
-
- N. $0^{\circ}3'W$. bet secs 20 & 21
- Over level land
Wash. 40g lbs wide, course N.E.
- 30.00
140.00 Set Malapai stone $16 \times 10 \times 8$ ins

60A

Concluded Book 437

BOOK 488

Sept. 18th at 7 h. a. m. l. m. t. I set off 35°
27' N. on lat arc, $2^{\circ} 8'$ N. on the
decl. arc, and determine the meridian
at the cor. of secs. 20-21-28 & 29.

Thence from

BOOK 488