Book "V".

EAST BOUNDARY OF
Tp. 25 N. R 3 E
Book "A"
AND WEST
NORTH and EAST BOUNDARIES
T 21 N., R. 9 E.

Caudle and Caudle

FIELD NOTES

GENERAL LAND OFFICE.

N. ½ of West Bdy. T. 21 N. R 9 E. is
1 advancement

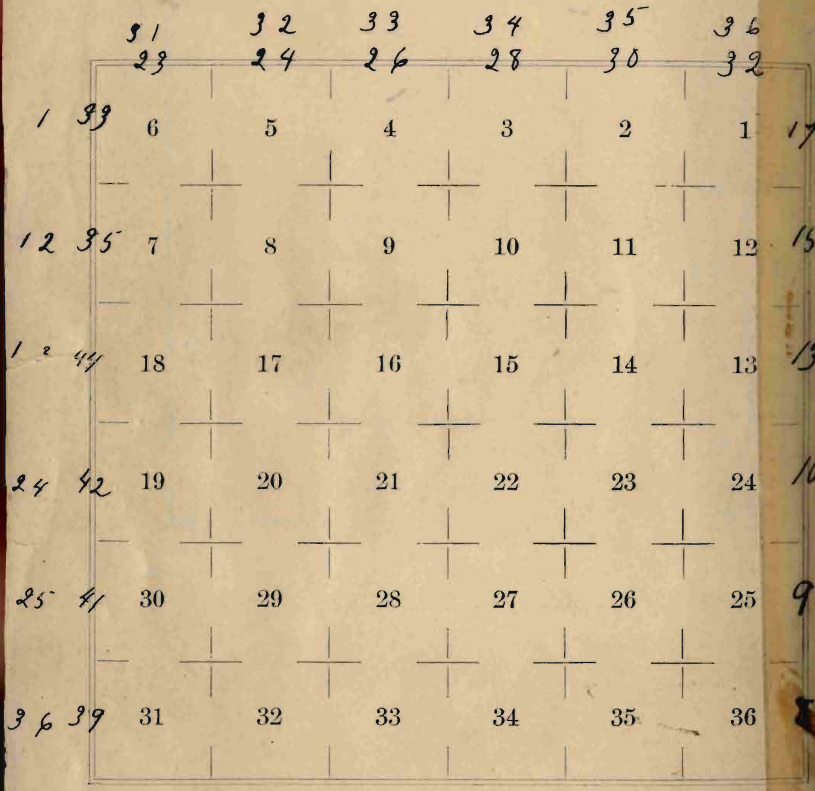
1A

BOOK 1446

4—674.

1446

Township 21 N. R. 9 E.



986b5m9-01

PRELIMINARY OATHS OF ASSISTANTS.

2A

We, Ellery Knowles

and J. H. Cook, Jr.

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 exterior boundaries of Tps. 21 N., R. 9 E. Etc 5 N., R. 3 E.

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

Ellery Knowles, Chainman.

J. H. Cook Jr, Chainman.

, Chainman.

, Chainman.

Subscribed and sworn to before me this 19th day of September, 1902.

Carl Bandle

[SEAL.] ~~Notary Public.~~ U. S. Deputy Surveyor

Monroe Bandle U.S. Deputy Surveyor

We, Willis E. Owen

and Philip Hirz & A. H. Marshall

do solemnly swear that we will well and truly perform the duties

flagman and axmen, in the establishment of corners and other du

according to instructions given us, to the best of our skill and abili

the survey of the Exterior boundaries of

Tps. 21 N. R. 9 E. & 25 N. R. 3 E.

of the Gila and Salt River Base and Meridian, in the Territo

Arizona.

Willis E. Owen, Flagm

Philip Hirz, Axman

A. H. Marshall, Axman

______________________, Axman

Subscribed and sworn to before me this 19th

of September, 1902

Carl R. Gandle

~~Notary Pub~~ U. S. Deputy Survey

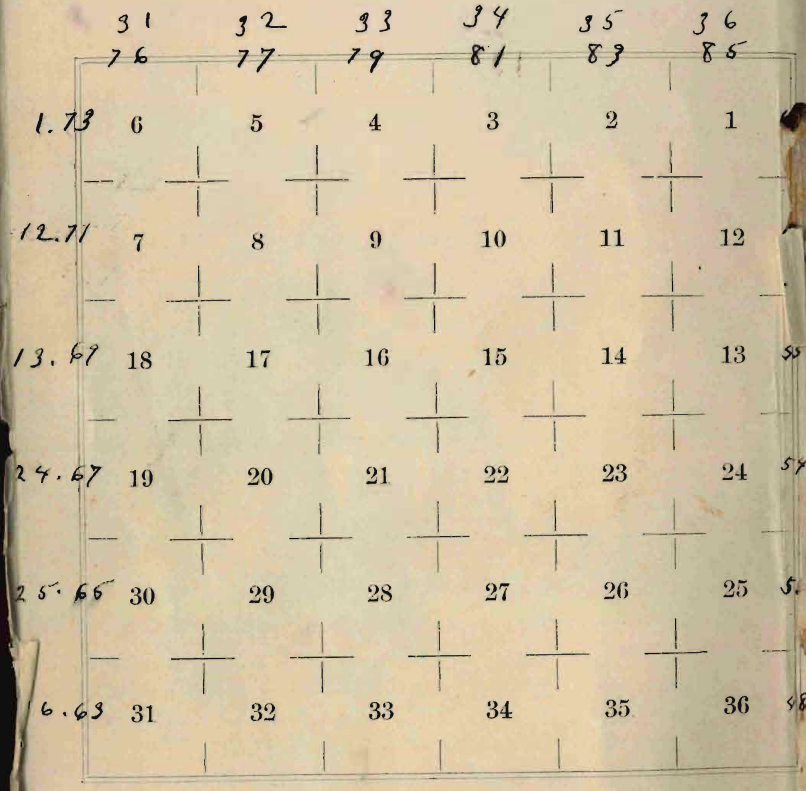
Marvin Gandle

U. S. Deputy Survey

BOOK 1446

4—674.

Township 25N R. 3 E.



986b5m9-01

st Bdy. T. 21 N. R. 9 E.

BOOK 1446

No. 1446

Survey Commenced Sept. 20, 1902, and executed with a W. & L. E. Gurley light Mountain transit (not numbered) with solar attachment and Jones Patent latitude arc. The horizontal limb is provided with two double verniers placed opposite to each other reading to single minutes of arc. the verniers of the declination are reads to 30" of arc, and the verniers of the latitude are read to single minutes and 10" of arc respectively and the vernier of the vertical arc reads to 30" of arc.

The instrument was examined tested on the true meridian

E. bdy., T. 21 N. R. 9 E.

at Phoenix, found correct. and was approved by the surveyor general for Arizona Sept 19, 1902.

I examine the adjustments of the transit and find no level or collimation errors, then to test the solar apparatus, by comparing its indications, resulting from solar observations made during a.m. & p.m. hours with a meridian determined by observations on Polaris, I proceed as follows.

At the standard corner of Tps. 21 N. Rs. 9 and 10 E. est. latitude 35° 07' 08", longitude 111° 21' 51.4" West, which is a post 4" ins.

2 ft. above ground firmly
set marked and witnessed
as described by the surveyor
general, at 8h 30m a.m., l.m.t., I set off 1°19' N.
on the decl arc, 35°07' N. on
the lat. arc. 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 orig
station.
Note, - I begin the survey of the east bdy. of the
tp. and complete the test of instrument
later in the day. See notes following
description of this test.
At 5h 10m p.m., l.m.t, I set off 1°12'
N. on the decl. arc, 35°07' N. on the
lat. arc; and mark a point in
the meridian thus determined by

a tack on the plug already set 5.00 chs. N. of my station, which point falls 0. 31 lks. W. of the point determined by the morning observation.

At 7h 32m p. m., Mnt. T., I observed Polaris at Eastern elongation and marked 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.

Note, - For complete record of this days work see field notes following.

Sept. 20, 1902.

Sept. 21, 1902. At 7h a.m. I lay off the azimuth of Polaris 1° 29' 13" to the west and mark the true meridian

E. Bdy. T. 21 N. R. 9 E.

thus determined by a tack on the plug already set 5.00 chs. N. of my station, which point is midway between the two points determined with the solar. The solar apparatus by a.m. and p.m. observations defines positions for true meridians, respectively about 1'8" East and 0'8" West of the meridian established by the Polaris observations; therefore I conclude the adjustments of the instrument are satisfactory. The magnetic bearing of the true meridian at 8h 45m a.m. is N. 14° 41' W.; the angle thus determined gives the mag. decl. 14° 41' E.

Sept. 21, 1902.

E. Bdy. T. 21 N. R. 9 E.

Sept. 20, 1902. From the Tp. Cor. already described I run North bet. secs. 31 & 36. Over nearly level land thro very dense cedar and pinon

40,00 Set a limestone 18 x 10 x 5 ins 12 ins. in the ground for ¼ sec. cor., marked ¼ on W. face; from which A Pinon 12 ins. diam., bears N. 15° 25' E. 43 lks. dist., mkd. ¼ S. 31 BT A Pinon 13 ins. diam., bears S 76° 45' W. 20 lks. dist., mkd. ¼ S 36 BT

44.00 Leave timber & enter burnt land covered with dense brush, bro. E. & W.

80,00 Set a limestone 18 x 12 x 6 ins 12 ins. in the ground for cor.

of secs. 25, 30, 31, and 36, marked with 1 notch on S. and 5 notches on N. edges; dig pits 18x18x12 ins. in each sec. 5½ ft. dist.; and raise a mound of earth 4 ft. base, 2 ft. high W. of cor.
Land, gently rolling.
Soil, stony & gravelly, 3rd rate.
Timber, Cedar and pinon 44.00 chs.
Timber or dense undergrowth 80.00 chs.

North

bet. secs. 25 and 30.
Over gently rolling land, thro dense brush.

40.00 Set a limestone 18x10x6 ins., 12 ins. ins in the ground for ¼ sec. cor., mkd. ¼ on W. face; and raise a mound of stone

E. Bdy. T. 21 N. R. 9 E.

2 ft. base, 1½ ft. high W. of cor.
Pits impracticable.

80.00 Set a limestone 18 x 8 x 6 ins. 12 ins. in the ground for cor. of secs. 19, 24, 25 & 30, mkd. with 2 notches on S. and 4 notches on N. Edges; dig pits 18 x 18 x 12 ins. in each sec. 5½ ft. dist.; and mound a round of earth 4 ft. base, 2 ft. high W. of cor.
Land, rolling.
Soil, gravelly 3rd rate.
No timber except a few scattering burnt trees.
Dense undergrowth 80.00 ch.

North

bet. secs. 19 & 24.

Over rolling land through dense brush, buck & chaparral.
31.00 Desc. into canyon, bns. E. and W.
33.00 Bottom of canyon course E. and fort dec. of 4 ft. Ascend.
35.00 Enter heavy cedar and pinon.
38.00 Top asc. 60 ft. bears E. and W.
40.00 Set a limestone 22 x 12 x 5 ins. 15 ins. in the ground for 1/4 sec. cor. mkd. 1/4 on W. face, from which a Pinon 13 ins. diam. bears N. 78° 30' E. 16 lks. dist., mkd. 1/4 S. 19 B.T.
A Pinon 10 ins diam., bears S. 79° W. 39 lks. dist., mkd. 1/4 S 24 B.T.
68.10 Road. bears E. and W.
69.25 Telegraph line bears E. and W.
71.45 S. F. P. R.R. bears N. 89° 06' E. and S. 89° 06' W.
72.00 Telegraph line bears E. and W. asc.

E. Bdy. T. 21 N. R. 9 E.

steep rocky slope bro E. & W.
80.00 About 60 ft. above the R.R.
Set a malpais 20 x 10 x 10 ins.
15 ins. in the ground for cor. of
secs. 13, 18, 19 & 24. mkd.
with 3 notches on S. and N.
edges. from which
A Cedar 16 ins. diam., bears N. 37° 30' E.
55 lks. dist, mkd. T. 21 N R 10 E S 18 B T
A Pinon 8 ins. diam., bears S. 58° 30' E. 45
lks. dist, mkd. T. 21 N. R 10 E S 19 B.T.
A Pinon 12 ins. diam., bears S. 36° 45' W. 58 lks
dist, mkd. T. 21 N. R. 9 E. S. 24 B T
A Cedar 12 ins. diam., bears N. 65° 15' W. 123 lks.
dist, mkd. T. 21 N. R 9 E. S 13 B.T.
Land Rolling and mountainous
Soil stony, 3rd & 4th Rate.
Timber, Heavy Cedar & Pinon.
Mountainous, heavily timbered

land or dense undergrowth
80.00 chs.

Sept. 21, at this cor. I set off 6
10 1/2' W. on the decl. arc, and
at 11h 53,6m a.m., Lmt. obsd.
the sun on the meridian;
the resulting lat. is
35° 10', which is nearly
correct.

North

bet. secs. 13 and 18.

Over mountainous land
covered with heavy cedar & pinon.

40.00 Set a malapai stone 18 x 7 x 6 ins. 12 ins.
in the ground for 1/4 sec. cor. mkd. 1/4 on
W. face; from which
A Pinon 9 ins. diam., bears N. 39° 30' E. 50
lks. dist., marked 1/4 S 18 B.T.

14

1446 E. Bdy. T. 21 N. R. 9 E.

BOOK

A cedar 6 ins. diam., bears N. 69° W. 52 lks. dist., mkd. 1/4 S 13 BT

80.00 Set a malapais stone 18 x 10 x 8 ins. 12 ins. in the ground for cor. of secs 7, 12, 13, and 18, mkd. with 4 notches on S. and 2 notches on N. edges; from which

A Cedar 6 ins. diam., bears N. 89° E. 34 lks. dist., mkd. T 21 N R 10 E S 7 BT

A Cedar 7 ins. diam., bears S. 23° 30' E. 18 lks. dist., mkd. T 21 N. R 10 E S 18 BT

A Cedar 5 ins. diam., bears S. 45° 30' W. 88 lks. dist., mkd. T. 21 N. R 9 E S 13 B.T.

A Cedar 7 ins. diam., bears N. 31° 30' W. 15 lks. dist., mkd. T. 21 N. R 9 E. S 12 B.T.

Land, broken and mountainous

Soil, stony 4th rate.

Timber, cedar and Pinon.

Mountainous and heavily timbered Land 80.00 ch.

Sept. 21 1902.

E. Bdy. T. 21 N. R. 9 E. 15

Sept. 22: At 8h 05m a.m., lat.
I set off 0° 33' N. on the dec.
arc; 35° 10' 40" N. on the lat.
arc; and determine a true
meridian with the solar at
the cor. of secs 7, 12, 13, & 18 on the
E. bdy. of the Tp.

Thence I run
North
bet. secs. 7 & 12.
Over mountainous land, through
heavy cedar and pinon
40.00 Set a limestone 15 x 10 x 6 ins. 10 ins.
in the ground for 1/4 sec. cor. mkd.
1/4 on W. face, from which
A Pinon 5 ins. diam, bears N. 72° 30' E. 15
lks. dist, mkd. 1/4 S 7 T
a Pinon 9 ins. diam, bears S. 38° 15' W. 27 lks.
dist, mkd. 1/4 S 12 BT

E. Bdy. T. 21 N. R. 9E.

42.00 Ascend ridge, bears N.W. & S.E.

56.00 N. W. End ridge about 150 ft. above cr. bears S. & Descend.

68.00 Ravine at foot descent 150 ft. course N.E. ascend

76.00 Top ascent 75 ft. bears N.E. & S.W.

80.00 Set a malapais 16 x 12 x 7 ins., 10 ins. in the ground for cor. of secs. 1, 6, 7, & 12, marked with 5 notches on S. and 1 notch on N edges; from which A Pinon 6 ins. diam., bears N. 32° 40' E. 29 lks. dist., mkd. T. 2 1 N R 10 E S 6 B T

A Pinon 6 ins. diam., bears S 65° 30' E. 77 lks. dist., mkd T 2 1 N R 10 E S 7 B T

A cedar 8 ins. diam., bears S. 65° 30' W. 2 7 lks. dist. mkd. T 2 1 N. R 9 E. S 12 B. T.

A Pinon 7 ins. diam., bears N. 60° 30' W. 7 lks. dist., mkd. T 2 1 N. R 9 E S 1 B. T.

Land, mountainous

E. Bdy. T. 21 N. R. 9 E. 17

Soil, stony, 4th Rate.
Timber cedar and pinon.
Mountainous or heavily timbered
land 8.00 chs.
Note, - It being cloudy at noon
no lat. obs. could be taken.

North

Set sec. 1 & 6,
Over mountainous land through
heavy cedar and pinon timber.
40.00 Set a malapais stone 15 x 10 x 6 ins.
10 ins. in the ground for 1/4 sec. cor.
mkd. 1/4 on W. face; from which
A Cedar 8 ins. diam., bears N. 68° 45' E. 24
lks, dist., mkd. 1/4 S 6 B.T.
A Pinon 8 ins. diam, bears S 55° W. 7 lks.
dist., mkd. 1/4 S 1 B.T.
80.00 Set a malapais 18 x 10 x 7 ins

E. Bdy. T. 21 N. R. 9 E.

12 ins. in the ground for cor. to
tps. 21 & 22 N. Rs. 9 & 10 E.
marked with six notches on
N, S, E & W. edges; from which
a Cedar 5 ins. diam, bears N. 20° E. 79
lks. dist, mkd. T. 22 N. R 10 E. S 31 B.T.
a Cedar 7 ins. diam, bears S. 69° 30' E. 51
lks. dist, mkd. T. 21 N. R 10 E. S 6 B.T.
a Cedar 7 ins. diam, bears S ~~86 45'~~ 87° 30' W. 48
lks. dist, mkd. T. 21 N. R 9 E. S 1 B.T.
a Cedar 5 ins. diam., bears N. 16° 30' W. 39
lks. dist, Mkd. T. 22 N. R 9 E. S 36 B.T.
Land, mountainous,
Soil, stony & cinders, 4th rate
Timber, cedar & pinon.
Mountainous or heavily timbered
land 80 chs.

Sept. 22, 1902

M. Bdy. T. 21 N. R. 9 E.

Sept. 23, 1902 at 7h 52m A.M., Lat., I set off 0° 10½' N. on the decl. arc; 35° 12½' N. on the lat. arc; and determine a true meridian with the solar, at the cor. of Tps. 21 & 22 N., Rs. 9 & 10 E. previously described.

Thence I run West,

on a random line, along the N. Bdy. of T. 21 N., R 9 E., setting temp. ¼ sec. and sec. cors. at intervals of 40.00 chs.; and, at 477.68 chs. intersect the W. Bdy. of the Tp. 8.78 chs. S. of the cor. of Tps. 21 & 22 N. Rs. 8 & 9 E. which is a post 4 ins sq. in poor condition marked and witnessed as described by the surveyor general.

N. Bdy. T. 21 N. R. 9 E.

This being 5.78 chs. greater than the allowable limits for closing the exteriors of a township. I retrace the random North bdy. and the established E. Bdy. and find no error of alignment or measurement. I then retrace the W. bdy. of secs. 6 and 7, T. 21 N. R. 9 E. and establish the W. bdy. of secs. 31, 30, 19, and 18, T. 21 N. R. 9 E. and retrace the 5th Standard Parallel and S. Bdy. of T. 21 N. R. 9 E., to determine the correct bearings and lengths of the Exterior Bdrys. of the Tp. These as now determined show a closing error well within limits a table of the latitudes, departures and closing errors shown on page (46)

Sept. 23, 1902

Sept. 26, 1902 I reestablish the old cor. to Tps. 21 & 22 N. Rs. 8 and 9 E. and change it to refer to Tps. 21 & 22 N., R. 8 E. by setting

A Malafaio stone 20 X 10 X 10 ins. 15 ins. in the ground for cor. to Tps. 21 & 22 N. R. 8 E. on W. Bdy. T. 22 N. R. 9 E. marked with 6 notches on N and W. Edges; dig pits 30 X 24 X 12 ins. on each line, N. and S. of stone 4 ft., and W. of stone 8 ft. dist.; and raise a mound of earth 5 ft. base 2½ ft. high W. of cor.

I set the closing cor. to Tps. 21 and 22 N. R. 9 E. as follows;

At the intersection of the random N. Bdy. T. 21 N. R. 9 E. with the W. bdy. which point is 8.78 chs. S. of the

N. Bdy. T. 21 N. R. 9 E.

Cor. to tps. 21 & 22 N. R. 8 E. just reestablished, &
Set a malapais stone 20 x 10 x 8 ins. 15 ins. in the ground for corner to tps. 21 & 22 N. R. 9 E. marked C. C. on E. with 6 grooves on N. E. & S. faces; dig pits 30 x 24 x 12 ins. crosswise on each line, N. and S. 4 ft., each E. of stone 8 ft. dist.; and raise a mound of earth 6 ft. base 2½ ft. high E. of cor.; from which
A Pine 31 ins. diam., bears N. 15° 30' E. 368 lks. dist., marked T. 21 N. R 9 E. S 31 B.T.
A Pine 36 ins. diam, bears S 48° 15' E. 340 lks. dist., marked T. 21 N. R 9 E S 6 B T
Sept. 26: at 8h 03m a.m., l.m.t., set off 1° 00' S. on the decl. arc. 35° 12' 20" N. on the Rat. arc: and determine a

true meridian with the solar,
Thence I run
East,
on a true line bet. secs. 6 & 31.
Over rolling land through
dense brush and scattering Pine.
5.60 Enter dense cedar and Juniper timber.
37.68 Set a malapais 18 X 8 X 6 ins, 12
ins. in the ground for 1/4 sec. cor.,
marked 1/4 on N. face; from which
A Pinon 12 ins. diam. bears N. 50° E. 96 lks.
dist, marked 1/4 S 31 BT
A Pinon 14 ins. diam, bears S 20° W. 53 lks.
dist., marked 1/4 S 6 BT
77.68 Set a malapais 18 X 10 X 7 ins., 12 ins. in
the ground for cor. of secs. 5, 6, 31, & 32
mkd. with 1 notch on N. and 5 notches
on E. edges; from which
A Pine 37 ins. diam, bears N. 39° E. 300

N. Bdy. T. 21 N. R. 9 E.

Chs. dist., marked T. 22 N. R. 9 E. S 32 B.T.
A Pinon 14 ins. diam., bears S. 18° 15' E. 28 lks.
dist., mkd. T. 21 N R 9 E S 5 B T
A Cedar 6 ins. diam., bears S. 26° 45' W. 130 lks.
dist, marked T 21 N R 9 E S 6 B T
A Cedar 5 ins. diam., bears N. 58° 10' W. 260 lks.
dist, marked T 22 N R 9 E S 31 B T
Land, rolling.
Soil, sandy loam & stony 2nd & 3rd rate.
Timber, pine, cedar & pinon
Dense brush on heavily timbered land 77.68 chs.

East,
on a true line bet. secs. 5 & 32,
Over Rolling land through
scattering pine and heavy cedar & pinon,
2.65 Road. bears NW. & SE.

N. Bdy. T. 21 N. R. 9 E.

No. 1446

15.00 Ascend over rough broken stony land, bears N.W. & S.E.

21.00 Ravine 1 ch. wide, 4 ft. deep, runs S.

38.00 Top ascent of 70 ft. bears N. & S.

40.00 Set a Malapais 18 x 9 x 9 ins., 12 ins. in the ground for 1/4 sec. cor. mkd. 1/4 on N. face; from which

A Pinon 12 ins. diam., bears N. 64° 40' W. 26 lks. dist., mkd. 1/4 S 32 BT

A Pinon 7 ins. diam., bears S. 8° 20' E. 98 lks. dist., mkd 1/4 S. 5 BT

80.00 Set a Malapais 18 x 9 x 7 ins., 12 ins. in the ground for cor. of sec. 4, 5, 32, and 33, mkd. with 2 notches on W. and 4 notches on E. edges; from which

A Cedar 5 ins. diam., bears N. 66° 25' E. 210 lks. dist., mkd. T 22 N. R 9 E S 33 BT

A Pinon 9 ins. diam., bears S. 75° E. 103 lks. dist., mkd. T. 21 N R 9 E S 4 BT

M. Bdy. T. 21 N. R. 9 E.

A Cedar 5 ins. diam., bears S. 38° 50' W. 143 lks. dist., mkd. T 21 N R 9 E S 5 B T

A Cedar 9 ins. diam., bears N. 58° 40' W. 104 lks. dist., mkd. T 22 N R 9 E S 32 B T

Land, Rolling and Mountainous.
Soil, stony. 3rd and 4th Rate.
Timber, Pine, Cedar and Spruce.
Mountainous or heavily timbered land 80.00 chs.

East,

on a trail line bet. secs. 4 & 33.
Over Mountainous broken land.
through heavy cedar and spruce.

40.00 Set a malapais 15 X 10 X 6 ins. 10 ins. in the ground for 1/4 sec. cor. Marked 1/4 on N. face, from which
A Pine 12 ins. diam., bears N. 75° E. 18 lks. dist., mkd. 1/4 S 33 B T

N. Bdy. T. 21 N. R. 9 E.

A Pine 13 ins. diam, bears S 40° E. 70 lks. dist., mkd. ¼ S. 4 BT

80.00 Set a malapais 16 X 14 X 7 ins. 10 ins. in the ground for cor. of secs. 3, 4, 33 & 34, marked with with 3 notches on E. & W edges; and raise a mound of stone 2 ft. base, 1½ ft. high W. of cor. pits impracticable; from which

A Cedar 12 ins. diam., bears N. 4° 10' E. 45 lks. dist, marked T. 22 N R 9 E S 34 BT

A Pinon 8 ins. diam, bears S. 5° E. 250 lks. dist, mkd. T 21 N R 9 E S 3 BT

A Pinon 8 ins. diam., bears N. 34° 45' W. 191 lks. dist., mkd. T 22 N R 9 E S 33 BT

No others within limits suitable for bearing trees.

Land, broken & mountainous.

Soil, stony, 4th Rate.

Timber, pine, cedar & pinon.

Timbered Mts. land 80.00 Chs.

M. Bdy. T. 21 N. R. 9 E.

At this cor. I set off 10 4½' S. on the decl. arc; and at 11h 51.5m a.m. Sept. observe the sun on the meridian. The resulting lat. is 35° 12' 20" which is correct.

East,

on a true line bet. secs. 3 & 34.

Over mountainous land through dense brush and cedar and pine timber.

22.00 Desc, bears N. 80

25.00 Foot desc. 4 oft. bears N. & S. & Road.

26.00 Drain, course N. E, Leave timber.

40.00 Set a lava stone 15 X 8 X 6 ins. 10 ins in the ground for ¼ sec. cor., Mkd. ¼ on N. face; dug pits 18 X 18 X 12 ins, E. & W. of stone 3 ft. dist; and raised a mound of earth 3½ ft. base, 1½ ft. high N. of cor.

A pine 13 ins. in diam bears S 51° 30' W. 244 lks dist marked ¼, S 3, B.T.

N. Bdy. T. 21 N. R. 9 E.

69.00 Road, bears N. & S.

70.50 Walnut Canyon, 2 oft. deep, 40 lks. wide, dry, course N. ascend.

76.50 Top ascent 50 ft. and enter cedar & pinon timber, Brs. N. & S.

80.00 Set a malapais 15 x 10 x 6 ins., 10 ins. in the ground for Cor. of secs. 2, 3, 34, and 35, marked with 4 notches on W. and 2 notches on E. edges, from which

A Pinon 15 ins. diam., bears N. 31° 30' E. 52 lks. dist., mkd. T 22 N R 9 E S 35 BT

A Pinon 10 ins. diam., bears S. 10° 0' E 89 lks. dist., mkd T 21 N R 9 E S 2 BT

A Pinon 12 ins. diam., bears S. 29° 20' W. 62 lks. dist., mkd. T 21 N R 9 E S 3 BT

A Pinon 10 ins. diam., bears N 50° W. 35 lks. dist., mkd. T 22 N R 9 E S 34 BT

Land, Mountains and Rolling

N. Bdy. T. 21 N. R. 9 E.

Soil, stony & clay loam 3rd & 4th rate.
Timber, cedar & pinon.
Mountainous, heavily timbered
or brush land, 80.00 chs.

East,
on a true line bet. secs. 2 & 35.
Over mountainous land
through heavy cedar and pinon,
ascending from cor.

40.00 Set a lava stone 15 x 8 x 6 ins.
10 ins. in the ground for 1/4
sec. cor. marked 1/4 on N. face,
from which
A Pinon 10 ins. diam., bears N. 20° 30' E.
39 lks. dist., mkd. 1/4 S. 35 BT
A Pinon 8 ins. diam., bears S. 85° W. 16
lks. dist., mkd. 1/4 S 2 BT

43.00 Top ascent of about 150 ft.
bears N. & S., ascending toward S.

N. Bdy. T. 21 N. R. 9 E.

80.00 Set a lava stone 18 x 10 x 5 ins. 12 ins. in the ground for cor. of secs. 1, 2, 35, and 36, mkd. with 5 notches on S. and 1 notch on E. edges; from which

A Cedar 8 ins. diam., bears N. 42° 30' E. 20 lks. dist., mkd. T 22 N. R 9 E. S 36 B.T.

A Cedar 6 ins. diam., bears S. 29° 30' E. 75 lks. dist., marked T 21 N R 9 E S 1 B T

A Piñon 6 ins diam., bears S 37° 30' W. 51 lks. dist., mkd. T 21 N R 9 E S 2 B T

A Piñon 8 ins. diam., bears N. 59° W. 100 lks. dist., mkd T. 22 N R 9 E S 35 B T

Land, Mountainous.

Soil, stony & volcanic cinders

4th Rate.

Timber, cedar & pinon.

Mts. land covered with heavy timber 80.00 chs.

32 M. Bdy T. 21 N. R. 9 E.

BOOK 1446

East,

on a true line bet. Secs 1 & 36.

Over Mountainous land thro
heavy cedar and pinon.

40.00 Set a lava stone 15 x 9 x 6 ins.
10 ins. in the ground for 1/4 sec.
cor., mkd. 1/4 on N. face; from which
A Cedar 6 ins. diam, bears S. 36° E. 38 lks.
dist., mkd. 1/4 S 1 BT
A Pinon 9 ins. diam., bears N. 73° 30' E.
72 lks. dist., mkd. 1/4 S 36 BT

80.00 The Cor. of Tps. 21 & 22 N. Rs.
9 & 10 E. previously described.

Land, rolling and Mountainous
Soil stony and volcanic ashes
4th Rate.

Timber, cedar and pinon.
Mts or heavily timbered land
80.00 chs.

Sept. 26, 1902.

Sept. 24; at 7 A.M. I begin the retracement of the W. bdy. of secs. 6 & 7, T. 21 N. R. 9 E. at the old cor. to tps 21 & 22 N. Rs 8 & 9 E. and run South,

bet. secs. 1 & 6,

Over rolling land through scattering pine and dense brush

15.00 Enter heavy cedar & pine timber bears N.W. & S.E.

40.29 The old ¼ sec. cor. bears W. 35 lks. dist. Which is a true course S. 0° 30' W.

post 4 ins. sq, 1½ ft. above ground firmly set, marked as described by the surveyor general, from which the old bearing tree Pine 4 ins. diam., bears S. 77° 35' W. 185 lks. dist, marked B.T.

I mark another tree as follows

A Piñon 8 ins. diam., diam., bears N. 46°30' W.

97 lks. dist., marked 1/4 S 1 B.T.

Thence from cor. South-

~~S 0°09' E~~

40.31 The old cor. of secs. 1, 6, 7 & 12, bears W. 10 lks. dist., (True course S 0° 09' W) which is a post rotted off. I reestablish, (at the ~~same point~~) as follows:

Set a malapais 18 x 10 x 5 ins., 12 ins. in the ground for cor. of secs. 1, 6, 7 & 12, marked with 1 notch on N. and 5 notches on S edges; from which

A Cedar 12 ins. diam., bears S. 5°16' W. 145 lks. dist., marked T 21 N R 8 E S 12 BT

A Cedar 10 ins. diam., bears N. 74°09' W. 118 lks. dist., marked T 21 N R8 E S 1 BT

Note - as it is very probable that this cor. will not be in

position to be used for the cor. of secs. 6 & 7, I do not take bearing trees in secs 6 & 7.

Land rolling,

Soil, sandy loam & stony 3rd & 4th Rate.

Timber, cedar and pinon,

Dense brush or heavy timber 80, 60 chs.

South,

bet. secs. 7 & 12,

Over rolling land thro dense cedar & pinon timber,

S. 0° 15' E.

34.75 Ravine 30 ft. deep, course N.E. and Road, bears N.E. & S.W.

40.26 The old 1/4 sec. cor. bears E. 15 lks. dist, which is a post rotted off. I reestablish at the same point as follows:

True course S. 0° 15' E.

Set a limestone 18 x 10 x 6 ins.

12 ins. in the ground for 1/4
sec. cor., marked 1/4 on W. face;
from which the old bearing tree
A Pinon 5 ins. diam., bears N. 73°20'W.,
42 lks. dist., marked 1/4 S 13 B T
I take a new bearing tree as follows:
A Pinon 5 ins. diam., bears S 71°10'E. 44
lks. dist., marked 1/4 S 7 B T
(S 0°05' W) Thence from cor. South
40.33 The old cor. of secs. 7, 12, 13,
and 18, bears W. 6 lks. dist.,
True course S. 0° 05' W.
which is a post 4 ins. sq. 3 ft.
above ground firmly set and
marked as described by the
surveyor general; from which
A Pinon 6 ins. diam., bears N. 65°E. 104
lks. dist., mkd T XXI N R IX E S VII B T
A Cedar 8 ins. diam., bears S 70°W. 106 lks.
dist., mkd. T XXI N R VIII E S XIII B T

A Pinon 8 ins. diam., bears N 89° W. 106 lks. dist, mkd. T XXI N R VIII E S XII B T
No other tree could be found marked as a bearing tree.
Land rolling and broken.
Soil stony, 3rd & 4th Rate.
Timber cedar and pinon.
Heavily timbered land 80.59

Sept. 24; at 9 h. a.m., by t. set off 0° 15' S. on the decl. and 35° 10' 40" N. on the lat. and; and determine a true meridian with the sun at the cor. last described.

Thence I run South,

on a random line along W. bdy. of the tp. setting temp. 1/4 secs.

W. Bdy. T. 21 N. R. 9 E.

a red cedar brs., at intervals of 40.00 chs., and at 326.70 chs. intersect the 5th standard Parallel N. 95 lks. W. of the S.C. of Tps. 21 N. Rs. 8 & 9 E. which is a post 4 inches sq., 12 ft. high, firmly set and marked as described by the surveyor general; from which

A Pine 24 ins. diam., bears N. 61° 52' E. 114 lks. dist., marked T XXI N R IX E S XXIII B.T.

A Pine 36 ins. diam., bears N. 22° W. 153 lks. dist., mkd. T XXI N R VIII E. S XXVI B.T.

The falling answers to a correction of 0° 10' of arc or 2 3/4 lks. E. per mile, counting from the cor. to sec. 7, 12, 13 & 18.

Therefore I run

N. 0° 10' W.

on a true line bet. secs. 31 & 36,
Over mountainous land, thro
heavy Pine, cedar & pinon.

3.00 Ravine 35 ft. below cor. Course E.

7.00 Ridge 100 ft. high bears E & W.

12.00 Ravine 100 ft. deep course, E.

30.00 Top ascent of 100 ft. bears E. & W.

40.00 Set a limestone 8 x 10 x 6 ins.,
12 ins. in the ground for 1/4 sec.
cor. mkd. 1/4 on W. face, from which
A Pinon 2 ins. diam., bears S. 51° 25 E. 18 lks.
dist, mkd. 1/4 S 31 B T
A Pinon 8 ins. diam bears S. 60° 40' W. 100 lks. dist,
mkd. 1/4 S 36 B T

40.50 South rim of Walnut Canyon bears
E. & W. Dist.

45.50 Bottom of canyon course E., 1 foot deep
of 40 ft. Ascnd.

1446 W. Bdy. T. 21 N. R. 9 E.

51.70 North rim of Walnut Canyon bears E. & W.

55.70 Ravine 20 ft. deep, course S.E.

8000 Set a limestone 18 x 12 x 6 ins., 12 ins. in the ground for cor. of secs 25, 30, 31 & 36, mkd. with 1 notch on S. and 5 notches on N. edges; from which a Pinon 6 ins. diam., bears N. 70° 20' E. 68 lks. dist., mkd. T. 21 N R 9 E S 30 B T

a Pinon 8 ins. diam., bears S. 52° 30' E. 51 lks. dist., mkd. T 21 N R 9 E. S 31 B T

a Pinon 8 ins. diam., bears S. 44° 40' W. 49 lks. dist., mkd T 21 N R 8 E. S 36 B T

a Pinon 8 ins. diam., bears N. 54° 50' W. 69 lks. dist., mkd T 21 N R 8 E S 25 B T

Land, Mountainous, Soil, stony, & the Rate. Timber, Pine, Pinon & cedar 80 rods, Mts. heavily timbered land 80 rods ch.

M. Bdy. T. 21 N. R. 9 E.

Note, - It being cloudy at noon no lat. obs. could be taken.
N. 0° 10' W.

on a true line bet. secs. 25 & 30.
Over mountainous land through heavy cedar & pine timber.

15.70 Descend, bears E. & W.
18.70 Ravine, 30 ft. deep, course S. E.
21.70 Top ascent of 30 ft. bears W. & E.
40.00 Set a limestone 15 x 10 x 6 ins., 10 ins. in the ground for 1/4 sec. cor. mkd. 1/4 on W. face; from which a Pinon 6 ins. diam. bears S. 65° E. 27 lks. dist., mkd. 1/4 S 30 BT
a Pinon 9 ins. diam. bears N. 87° 20' W. 50 lks. dist., mkd. 1/4 S 25 BT.
80.00 Set a limestone 18 x 6 x 4 ins. 12 ins. in the ground for cor. of secs. 19, 24, 25 & 30, mkd. with

N. Bdy. T. 21 N. R. 9 E.

2 notches on S. and 4 notches on N. edges, from which a Piñon 5 ins. diam., bears N. 85° 20' E. 47 lks. dist., mkd. T 21 N R 9 E S 19 B T

a Piñon 5 ins. diam., bears S 44° 45' E. 59 lks. dist., mkd. T 21 N R 9 E S 30 B T

a Piñon 6 ins. diam., bears S. 5° W. 21 lks. dist., mkd. T 21 N R 8 E S 25 B T

a Piñon 5 ins. diam., bears N. 65° W. 55 lks. dist., mkd. T 21 N R 8 E S 24 B T

Land, broken, mts. & rolling.

Soil, stony 3rd & 4th Rate.

Timber, piñon & cedar,

Heavy timber 80,000 chs.

N. 0° 10' W.

On a true line bet. Secs. 19 & 24.

Over rolling land through heavy cedar & piñon.

40.00 Set a limestone 24 X 16 X 10 ins., 15 ins. in the ground for 1/4 sec. cor., mkd. 1/4 on W. face; from which
A Pinon 8 ins. diam., bears S. 85° E. 16 lks. dist., mkd. 1/4 S 19 BT
A Pinon 16 ins. diam., bears S. 80° W. 28 lks. dist., mkd 1/4 S 24 BT

80.00 Set a limestone 24 X 14 X 7 ins., 16 ins. in the ground for cor. of secs. 13, 18, 19 & 24, mkd. with 3 notches on N. & S. edges; from which
A Pinon, 10 ins. diam., bears N. 45° E. 53 lks. dist., mkd. T 21 N R 9 E S 18 BT
A Pinon 10 ins. diam., bears S. 31° 10' E 57 lks. dist., mkd T 21 N R 9 E S 19 BT
A Pinon 6 ins. diam., bears S. 80° W. 30 lks. dist., mkd T 21 N R 8 E S 24 BT
A Pinon 16 ins. diam., bears N. 49° 30' W. 26 lks. dist., mkd T 21 N R 8 E S 13 BT

W. Bdy. T. 21 N. R. 9 E.

Land, rolling & stony.
Soil, stony & clayloam 3rd Rate.
Timber, pinon & cedar.
Heavy timber. 80.00 Chs.

N. 0° 10' W.

on a true line bet. secs. 13 & 18.

Over rolling land thro dense cedar & pinon timber.

33.70 Low ridge bears E. & W.

40.00 Set a limestone 16 x 10 x 6 ins. 10 ins. in the ground for 1/4 sec. cor. mkd. 1/4 on W. face; from which A Cedar 10 ins. diam, bears S. 55° E. 85 lks. dist, mkd. 1/4 S 18 B.T.
A Pinon 12 ins. diam, bears S 56° 40' W. 150 lks. dist, mkd 1/4 S 13 B.T.

41.70 Foot of ridge bears E. & W.

45.35 Road, bears E. & W. and Drain course E. ascend.

W. Bdy. T. 21 N. R. 9 E.

49.70 Telegraph line, bears N. 60° W. and S. 60° E.

50.41 Santa Fe Pacific R.R. bears N. 60° W. and S. 60° E.

50.95 Telegraph ~~line~~ bears N 60° W & S 60° E.

55.20 Top ascent of 30ft. bears E. & W.

86.70 The cor. of secs. 7, 12, 13, & 18.

Land rolling, & broken.

Soil, stony, & clay loam 3rd & 4th Rate.

Timber, cedar, pinion & pine.

Land covered with heavy timber

86.70 Chs.

Sept. 24, 1902.

BOOK 1446

Boundaries of Latitudes, Departures

Line Designated.	True bearing.	Distance. chs.
E. bdy. T. 21 N., R. 9 E.	North	480.00
N. bdy. T. 21 N. R. 9 E.	West	477.68
W. bdy. T. 21 N. R. 9 E.	Southerly,	
	S. 0° 38' W.	31.51
	S. 0° 08' W.	40.31
	S. 0° 13' E.	40.26
	S. 0° 05' W.	40.33
	S. 0° 10' E	326.70
5th Standard Par. N. & S bdy. T. 21 N. R. 9 E.	Easterly,	
	S. 89° 20' E.	39.18
	S. 89° 07' E.	39.91
	S. 89° 08' E.	39.93
	S. 89° 33' E.	39.88
	N. 89° 53' E.	40.15
	N. 89° 23' E.	39.94
	S. 89° 39' E.	40.17
	N. 89° 15' E.	40.13
	N. 89° 48' E.	39.86
	N. 89° 19' E.	39.73
	S. 89° 17' E.	39.69
	S 89° 56' E.	39.63
Convergency	Totals	
	Error in Latitude	

T. 21 N., R. 9 E.
and Closing Errors.

Latitudes N. chs.	Latitudes S. chs.	Departures E. chs.	Departures W. chs.
+80.00.			
			477.68
	31.51		.35
	40.31		.10
	40.26	.15	
	40.33		.06
	326.70	.95	
	.45	39.18	
	.61	39.91	
	.60	39.93	
~~.68~~	.31	39.88	
08			
.43		40.15	
		39.94	
	.25	40.17	
.53		40.13	
.14		39.85	
.47		39.73	
	.50	39.69	
	.05	39.63	
			.51
481.65	481.88	479.29	478.10
.23		Error in Dep.	.59

Carl R. Gaudle
U. S. Deputy Surveyor,

Marvin Gaudle
U S Deputy Surveyor

E. Bdy. T. 25 N. R. 3 E.

Nov. 5, 1902. At 8 A M. l.s.u.t.
I set off 15° 29' S. on decl. arc,
35° 28' N on lat arc and with
the solar determine a true
meridian at the S.C. to Tps.
25 N. R. 3 and 4 E. previously
described.
Thence I run
North, bet. secs. 31 and 36.
Ascend S. slope of ridge
, through dense chico and
buck brush.

4.00 Enter dense cedar and pinon
bears E and W.

8.00 Top of ridge 100 ft high. bears
E. and W. Thence over W. slope
of ridge.

40.00 Set a sand stone 24 x 18 x 6
ins in mound of stone

E. Bdy. T. 25 N. R. 36 E. 49

on a flat rock; mkd ¼ on W. face; from which;

A pinon, 8 ins. in diam., bears N. 84° 42' W. 10 lks. dist., mkd. ¼ S 36 B T.

A pine 16 ins. in diam., bears S. 75° 18' E. 14 lks. dist., mkd ¼ S. 31. B T.

54.50 Drain, coust N.W. Enters nts. land; ascend steep S. slope of hill.

80.00 Point for sec. cor. falls on S. slope of hill 400 ft above drain.

Set a malapais stone 12 x 12 x 6 ins. 8 ins. in the ground for cor to secs. 25 30 31 and 36 mked. with 5 notches on N. and 1 notch on S. edges

50

1446

S. Bdy. of T. 25 N. R 3 E

BOOK

from which;

A pinon, 10 ins. in diam.,
bears N. 72 E. 117 lks. dist.,
mkd. T 25 N R 4 E S 30 B T.

A cedar, 8 ins. in diam.,
bears S. 44° 50' E. 112 lks dist.,
mkd T 25 N R 4 E S 31 B T.

A pinon 5 ins. in diam.,
bears S. 59° 58' W. 31 lks. dist.,
mkd. T 25 N R 3 E S 36 B T

A pinon 12 ins. in diam.,
bears N. 80° 30' W. 60 lks. dist.,
mkd. T 25 N R 3 E S 25 B T.

Land, rolling and mountainous
Soil, stony and cinders 3rd
and 4th rate.
Timber, cedar and pinon.
Land covered with dense cedar, pinon
or brush and chis brush 80 chs

E. bdy. of T 25 N. R 3 E.

North, bet. secs. 25 and 30
Asc. mountainous land through
dense cedar and pinon.

13.00 Top of mountain 500 ft. high
100 ft. above sec. cor. Thence
over top of mountain.

14.00 Begin descent, steep N. slope
through cinders and lavarock

33.90 Drain. course N W. foot of 500
ft. descent. ascend.

40.00 Set a malapais stone 20 X 14 X 12
ins. 15 ins. in the ground and
mound of stone for ¼ sec cor.
mkd. ¼ on W. face; from which
A pinon, 10 ins. in diam.,
bears N. 42° E. 17 lks. dist.,
mkd ¼ S 30 B T.
A pinon 12 ins. in diam.,
bears N. 80° 30' W. 60 lks. dist.,

 E. Bdy. of T. 25 N. R 3 E.

mkd ¼ S 25 B T.
At this cor., Nov. 5. at $11^h 43' 40''$
A.M. l.m.t. I set off 15° 33' 30" S.
on the decl. arc and observe the
sun on the meridian, the
resulting latitude 35° 29' N which
is the latitude nearly.

41.35 Top of 75 ft. ascent. bears N W. and
S.E. Descend N. E slope.

50.00 Flat draw, course N.W. foot of 40 ft descent
Thence over nearly level land
through malpais boulders.

80.00 Set a malpais stone 16 x 12 x 8
ins 10 ins. in the ground
for cor. of secs. 19, 24, 25 and
30. mkd. with 4 notches
on N. and 2 notches on S.
edges; from which
A pinon, 8 ins in diam.,

E. Bdy. of T. 25 N. R 3 E.

bears N 83° 35 E. 64 lks dist.,
mkd T 25 N R 4 E S 19 B T.
A pinon, 8 ins. in diam.,
bears S. 41° 12' E. 46 lks. dist.,
mkd. T 25 N R 4 E S 30 B T.
A pinon, 12 ins. in diam.,
bears S. 60° W. 9 lks. dist;
mkd T 25 N R 3 E S 25 B T.
A pinon, 4 ins. in diam.,
bears N. 44° 15' W. 66 lks dist.,
mkd. T 25 N R ~~4~~ 3 E S 24 B T.
Land, mountainous.
Soil, stony and cinders; 3 od
and 4th rate.
Timber, 80 chs dense cedar
and pinon.

54 1446 & Bdy. of T. 25 N. R. 3 E.

BOOK

North, bet. secs. 19 and 24
Over rolling land through
dense cedar and pinon.

40.00 Set a malapais stone 12 x 6 x 6
ins. 8 ins. in the ground for
¼ sec. cor.; mkd. ¼ on W.
face; from which
A pinon, 6 ins. in diam.,
bears N. 88° 10' E. 110 lks. dist.,
mkd ¼ S 19 B T.
A cedar, 10 ins. in diam.,
bears S. 47° 35' W. 76 lks dist.,
mkd ¼ S 24 B T.

80.00 Set a malapais stone 20 x
14 x 8 ins. 15 ins. in the
ground for cor. of secs. 13, 18, 19
and 24. mkd with 3 notches
on N. and S. edges; from which
A cedar, 12 ins. in diam.,

bears N. 45° 45' E. 10 lks. dist.,
mkd. T 25 N R 4 E S 18 B T.
A pinon, 5 ins. in diam.,
bears S. 70° 48' E. 37 lks. dist.,
mkd. T 25 N R 4 E S 17 B T.
A pinon, 5 ins. in diam.,
bears S. 68° 30' W. 43 lks. dist.,
mkd. T 25 N R 3 E S 24 B T.
A cedar, 12 ins. in diam.,
bears N. 72° W. 62 lks. dist.,
mkd. T 25 N R 3 E S 13 B T.
Land, rolling.
Soil, stony 3rd and 4th. rate.
Timber, dense cedar and
pinon, 80 chs.

Nov. 5 1902.

Nov. 6. 1902
North, bet. secs. 13 and 18
Over rolling land through dense

cedar and pinon.

40.00 Set a malapais stone 14 x 10 x 10 ins. 10 ins. in the ground for ¼ sec. cor. mkd ¼ on W. face from which

A pinon, 12 ins. in diam. bears N. 69° 20' E. 118 lks. dist., mkd. ¼ S 18 B. T.

A pinon, 8 ins. in diam. bears S. 74° 30' W. 78 lks. dist., mkd. ¼ S 13 B T.

80.00 Set a malapais stone 20 x 12 x 6 ins. 15 ins. in the ground for cor. of secs. 7, 12, 13 and 18 mkd with 2 notches on W. and 4 notches on S. edges; from which

A pinon, 6 ins. in diam., bears N. 34° 37' E. 49 lks. dist.,

mkd. T 25 N R 4 E S 7 B T.
A pinon, 18 ins. in diam.,
bears S. 55° E. 40 lks. dist.,
mkd T 25 N R ~~3~~ 4 E S 18 B T.
A cedar 10 ins. in diam.,
bears S. 74° 45' W. 70 lks. dist;
mkd. T 25 N R 3 E S ~~12~~ 13, B T.
a pinon 6 ins. in diam. bears N 34° 45' W.
67 lks. dist. mkd. T 25 N R 3 E S. 12 B.T.
Land, rolling.
Soil stony; 3rd and 4th rate.
Timber, dense cedar and
pinon 80 chs.

Nov. 6 1902. At 10 A.M. l.m.t.
I set off 15° 50' S. on decl arc;
35° 31' 30" E. on lat. arc and
with the solar determine a
true meridian.
Thence I run.
North, bet. secs. 7 and 12

1446 E. Bdy. of T. 25 N. R 3 E.

BOOK

Over rolling land through dense cedar and pinon.

15.00 Enter scattering cedar and pinon and dense chico and buck brush.

40.00 Set a malapais stone 1 ft x 6 x 6 ins. 8 ins. in the ground, for ¼ sec. cor. mkd. ¼ on W. face; from which

A pinon 14 ins. in diam., bears N. 80° 30' E. 118 lks. dist., mkd ¼ S 7 B T.

A pinon, 14 ins. in diam., bears N. 79° 50' W. 261 lks. dist., mkd. ¼ S 12 B T.

54.00 Enter dense cedar and pinon

60.00 Descend N. slope into canyon.

66.00 Bottom of canyon 75 ft. deep course N. W. Thence over bottom.

74.00 Asc. steep S.E. slope.

E. Bdy. of T. 25 N. R 3 E.

75.50 Top of 80 ft ascent. bears N.E. and S.W.

80.00 Set a malapais stone 14 x 12 x 8 ins. 10 ins. in the ground. for. cor. of secs. 1, 6 7 and 12. mkd. with 1 notch on N. and 5 notches on S. edges; from which

A pinon, 16 ins. in diam. bears N. 17° 30' E. 112 lks. dist., mkd. T 25 N R 4 E S. 6 B T.

A pinon, 8 ins. in diam., bears S. 74° 30' E. 31 lks. dist., mkd. T 25 N R 4 E S 7 B T.

A pinon, 10 ins. in diam., bears S. 32° 8' W. 64 lks dist., mkd. T 25 N R 3 E S 12 B T.

A pinon, 10 ins. in diam. bears N. 83° W. 81 lks. dist., mkd. T 25 N R 3 E S 1 B T.

60 E. bdy. of T. 25 N. R. 3 E.

BOOK 1446

Land, rolling and broken.
Soil, stony and sandy; 3rd
and 4th rate.
Timber, dense. cedar, pinon.
or buck and chico brush 80 chs.
Mon. & at this cor. at 11h 43' 43"
A. M. l. m. t. I set off 15° 52'
S. on decl arc and observe the
sun on the meridian. The
resulting latitude is 35° 32' N
which is the latitude nearly.

For authority of Red Ink corrections
see deputy's letters of Oct 12th, 19th &
30th 1903