

See Index

FIELD-NOTES

Retracing
Rehacing
OF

BOOK 1389

The *Interior* Lines of

Township *16* and *17* North Range *11* East.
Township *16* North Range *9* East
Range *8* East

Lines in East Main Meridian,
S. Body T12 v R11E was retraced by McLaughlin
same year, see 4 1/2 stand Saw North
D. Wheeler Deputy Surveyor.

1389

under his contract of *July 17th* 188*2*
Survey commenced *May 7th* 188*3*
Survey completed *June 19th* 188*3*

BOOK 1389

Platted by *No. 1389* 188

Copied for Washington by 188

Copied for Register by 188

✓ *No. 1389*

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Retracing

S-Bdy	T. 22 N	✓ P. 8	E. 1
W + S -	" " 18 N	" 9	" 12
W + S -	" " 17 N	✓ " 11	" 36
S W -	" " 16 N	✓ " 11	" 30

For survey see Tps 10 to 20 N;
Rgs 10 to 20 E

No. 1389

B

BOOK 1389

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Survey made with Burt's Patent Improved Solar
Compass, nearly new, and in first rate order. Made

by Otto Lennel of Cassel
Germany in 1881

Before proceeding further with the exteriors of this T.p.,

I made a change of 21 minutes in the latitude arc
of my solar compass by adding same to
the reading previously given, and at noon verified and
corrected same by observation on the sun. I also fur-
ther tested instrument by reversing.

I took the latitude and found it to be $34^{\circ} 47'$ South-

W. boundary V. 22 N., R. 8 E., S. 1 W. S. R. M.
(See previous page.)

Chains

From the cor. to Tps. 21st & 22nd N.,
R. 8th & 9th E., which is a post, set
firmly in the ground, marked
V. 22 N., S. 31 on N. E.

R. 9 E., S. 6 on S. E.

V. 21 N., S. 1 on S. W. 9th

R. 8 E., S. 36 on N. W. face, with 6
notches on each edge and a
mound of stone, in good order,
around post, I run

West on a random line, bet. secs. 1st & 36,

Pa. 14° 37' East.

Ascend gradually.

40.00

To old 14 sec. cor, which is a
post, set firmly in the ground,
marked 14 S. on N. face, with pits
E. 2nd W. of post, 5 1/2 ft. dist, and
a mound of earth, in good order
around post; from which bear:
a Pine 11 ins dia., S. 10 1/4° W., 30 lks. dist,
marked 14 S. R. V.

S. boundary V. 22 N., R. 8 E., G. 2nd S. R. M.

Chains

A Pine, 30 ins. dia, N. 25° W., 102 lks. dist,
marked 145 B. V.

80.00 To a point 12 lks. North of sea cor.
to secs. 1, 2, 35th & 36, which is a
post, set firmly in the ground, marked
V. 22 N., V. 36 on N. E.

R. 8 E., V. 1 on S. E.

V. 21 N., V. 2 on S. W. ^{and} V. 35 on N. W.

faces, with 1 notch on E. ^{and} 5 notches
on W. edges; from which pass:

A Yellow Pine, 20 ins. dia, N. 60° E., 38 lks. dist,
marked V. 22 N., R. 8 E., V. 36 B. V.

A Yellow Pine, 30 ins. dia, V. 15° E., 285 lks. dist,
marked V. 21 N., R. 8 E., V. 1 B. V.

A Yellow Pine, 20 ins. dia, V. 50° W., 100 lks. dist,
marked V. 21 N., R. 8 E., V. 2 B. V.

A Yellow Pine, 20 ins. dia, N. 74° 30' W., 162 lks. dist,
marked V. 22 N., R. 8 E., V. 35 B. V.

The return course is therefore N. 89° 55' E.

Low mountains. Soil 3rd mile.

Heavy timber of Pine on undergrowth of same.

S. boundary of 22nd N., R. 8 E., G. 4th S. R. M.

Chains

West on a random line, bet. secs. 2nd & 30th,
 Val. $14^{\circ} 37'$ East.

Ascend steep Butte.

40.00 To old $\frac{1}{4}$ sec. cor., which is a post,
 set firmly in the ground, marked $\frac{1}{4}$ S.
 on N. face, with a mound of stone,
 in good order, around post;

from which bears:

A Yellow Pine, 24 ins. dia., N. $30^{\circ} 45'$, 95 lks. dist.,
 marked $\frac{1}{4}$ S. B. V.

44.00 Top of Butte, bears N. $2^{\circ} 30'$ and descend.

80.00 To a point 25 lks. North of old cor.
 to secs. 2, 3, 34th & 35, which is a
 post, set firmly in the ground, marked
 V. 22nd N., S. 35 on N.E.

R. 8 E., V. 21 on W.E.

V. 21st N., S. 3 on S.W., and

S. 34 on N.W. faces, with 4 notches
 on W. and 2 notches on E. edges;

from which bears:

A Yellow Pine, 30 ins. dia., N. $37\frac{1}{2}^{\circ}$ E., 17 lks. dist.,

S. boundary V. 22 N., R. 8 E., S. 35 B. V.

chain.

marked V. 22 N., R. 8 E., S. 35 B. V.

A Yellow Pine, 20 ins. dia., S. $87\frac{1}{2}^{\circ}$ E., 157 lks. dist.,

marked V. 21 N., R. 8 E., S. 2 B. V.

A Yellow Pine, 20 ins. dia., S. 72° W., 98 lks. dist.,

marked V. 21 N., R. 8 E., S. 3 B. V.

A White Oak, 12 ins. dia., N. $32\frac{1}{2}^{\circ}$ W., 17 lks. dist.,

marked V. 23 N., R. 8 E., S. 34 B. V.

The return course is therefore N. $89^{\circ} 49'$ E.

Land mountainous.

Soil 3rd rate.

Heavy timber of Pine and Oak and
undergrowth of same and Juniper.

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

Var. $14^{\circ} 37'$ East.

Descend.

40.00 Found no trace of sec. 14 sec. cor.

Set temporary 14 sec. cor.

70.00 Cross Prairie, course S. and ascend.

79.98 To a point 15 lks. North of old cor.
to secs. 3, 4, 30 and 34, which is a

S. boundary T. 22 N., R. 8 E., S. 34 N. R. M.

Chains

post, set firmly in the ground, marked

T. 22 N., S. 34 or 4 E.

R. 8 E., S. 3 or S. E.

T. 21 N., S. 4 or S. W. and S. 33 or N. W.

faces, with 3 notches on E. & W. edges;

from which bears:

A Yellow Pine, 36 ins. dia., N. 74° E., 10 lks. dist,
marked T. 22 N., R. 8 E., S. 34 R. V.A Yellow Pine, 24 ins. dia., S. $30\frac{1}{2}^{\circ}$ E., 60 lks. dist,
marked T. 21 N., R. 8 E., S. 3 R. V.A Yellow Pine, 14 ins. dia., S. 10° W., 33 lks. dist,
marked T. 21 N., R. 8 E., S. 4 R. V.A Yellow Pine, 10 ins. dia., N. $12\frac{1}{4}^{\circ}$ W., 75 lks. dist,
marked T. 22 N., R. 8 E., S. 33 R. V.;

thence I run

N. 89° 54 E. on a true line, bet. sec. 3 & 34.Co. 14° 37 East.39.99 Set a post, 3 ft. long, 3 ins. square, with
marked stone, 12 ins. in the ground, for
14 sec. cor., marked 140. on N. face,
dug pits $18 \times 18 \times 12$ ins. E. & W. of

S. boundary T. 22 N., R. 8 E., S. 1st and S. R. M.

Chamis.

post, 5¹/₂ ft. dist., and raised a mound of earth, 1¹/₂ ft. high, 3¹/₂ ft. base, around post; from which bears:
 a yellow Pine, 18 ins. dia., N. 37¹/₄° E., 128 lks. dist.,
 marked 14 S. R. 17.

No other tree within limits.

79.98 To cor. to secs. 2, 3, 34 and 35.

Land mountainous.

Soil 3rd rate.

Heavy timber of Pine and
 undergrowth of same and Juniper.

From the cor. to secs. 3, 4, 33rd and 34, turn
 West on a random line, bet. secs. 4th and 33,
 W. 14° 37' East.

Ascend.

3.00 Cross road, bear N. and S.

40.05 To a point 8 lks. North of sec 14
 sec. cor., which is a post, set firmly
 in the ground, marked 14 S. on N.
 face; from which bears:

S. boundary V. 22 N., R. 8 E., E. and S. R. W.

Chains.

A yellow Pine, 16 ins. dia., N. 65° E., 20 lks. dist,
marked V. 4 S. B. V.

A yellow Pine, 15 ins. dia., S. 39° E., 81 lks. dist,
marked V. 4 S. B. V.

The return course is therefore N. 89° 53' E.

St. 05 To a point 10 lks. North of sea cor. to
secs. 4, 5, 32 and 33, which is a spot
set firmly in the ground, marked
V. 22 N., S. 33 or N. E.

R. 8 E., S. 4 or S. E.

V. 21 N., S. 5 or S. W. and

S. 32 or N. W. faces, with 2 notches on
W. and 4 notches on E. edges; from which cross:

A yellow Pine, 30 ins. dia., N. 55° E., 178 lks. dist,
marked V. 22 N., R. 8 E., S. 33 B. V.

A yellow Pine, 10 ins. dia., S. 25° E., 137 lks. dist,
marked V. 21 N., R. 8 E., S. 4 B. V.

A yellow Pine, 14 ins. dia., S. 24° W., 116 lks. dist,
marked V. 21 N., R. 8 E., S. 5 B. V.

A yellow Pine, 38 ins. dia., N. 30° W., 82 lks. dist,
marked V. 22 N., R. 8 E., S. 32 B. V.

S. boundary V. 22 N., B. P.E., E. and S. R. M.

Lebanis

The return course is therefore $N. 89^{\circ} 56' E.$

Land maintained.

Soil 3rd rate.

Heavy timber of Pine and Juniper^{and}
undergrowth of same.

West on a random line, bet. secs. 5 & 32.

$W. 14^{\circ} 37' East.$

Ascend gradually.

25.00 Cross bar N, 4, 00 chs. dist.

40.00 To old $\frac{1}{4}$ sec. cor., which is a post
set firmly in the ground, marked $\frac{1}{4}$ N.
on N. face; from which cross:

A yellow Pine, 9 ins. dia, $S. 20^{\circ} 14' W.$, 5 lks. dist,
marked $\frac{1}{4}$ S. B. V.

A yellow Pine, 13 ins. dia, $N. 35^{\circ} E.$, 45 lks. dist,
marked $\frac{1}{4}$ S. B. V.

45.75 Cross road, bar N. $45^{\circ} E.$ & $S. 45^{\circ} W.$

80.00 To old cor. to secs. 5, 6, 31 & 32 which
is a post, set firmly in the ground,
marked V. 22 N., of 32 on N.E.

S. boundary T. 22 N., R. 8 E., G. and S. R. M.

Blair.

R. 8 E., S. 5 on S. E.

T. 21 N., S. 6 on S. W., and

S. 31 on N. W. faces, with 1 notch on
W., and 5 notches on E. edges;

from which bears:

A yellow Pine, 20 ins. dia., N. 75° E., 153 lbs. dist,
marked T. 22 N., R. 8 E., S. 32 B. C.A yellow Pine, 9 ins. dia., S. 55° E., 161 lbs. dist,
marked T. 21 N., R. 8 E., S. 5 B. C.A yellow Pine, 36 ins. dia., S. 15° W., 147 lbs. dist,
marked T. 21 N., R. 8 E., S. 6 B. C.A Cedar, 25 ins. dia., N. 19½° W., 20 lbs. dist,
marked T. 22 N., R. 8 E., S. 31 B. C.

Land rolling.

Soil 3rd rate.

Heavy timber of Pine and Juniper
and undergrowth of same.

S. boundary T. 22 N., R. 8 E., G. & S. R. M.

Claims

West on a random line, bet. secs. 6th & 31st
 Var. $14^{\circ} 37'$ East.

Ascend.

40.00 To old '14 sec. cor., which is a post,
 set firmly in the ground, marked
 '14 N. on N. face and with a mound
 of stone around post; from which pass:
 a yellow Pine, 20 ins. dia., 7.30° E., 58 lks. dist,
 marked '14 S. B. C.

79.55 To a point 14 lks. North of old cor.
 to Tps. 21st & 22 N., Rs. 7th & 8 E.,
 which is a post set firmly in the
 ground, marked
 T. 22 N., S. 31 on N. E.
 R. 8 E., S. 6 on S. E.
 T. 21 N., S. 1 on S. W. and
 R. 7 E., S. 36 on N. W. faces, with
 6 notches on each edge and a stone
 mound around post; from which pass:
 a yellow Pine, 14 ins. dia., 7.30° E., 19 lks. dist,
 marked T. 22 N., R. 8 E., S. 31 B. C.

S. boundary T. 22 N., R. 8 E., G. 2nd S. R. M.

Chewis.

A yellow Pine, 12 in. dia., N. $78^{\circ}W$, 20 lks. dist,
marked T. 21 N., R. 7 E., S. 1 B. V.

The return course is therefore N. $89^{\circ}54'E$.

Land mountainous.

Soil 3rd rate.

Heavy timber of Pine & Juniper
and undergrowth of same.

May 7th 1883.

S. boundary T. 18 N., R. 9 E., S. W. S. R. M.

Chains

Before proceeding with the retracing of this boundary, I made a change of 25 minutes in the latitude as of my solar compass, by subtracting same from the reading previously given and at noon verified and corrected same, by observation on the sun. I also further tested instrument by running. I took the latitude and found it to be $34^{\circ}58'N$.

From the cor. to Tps. 17th and 18th,

R. 9th W 10 E, which is a post set firmly in the ground, marked
S. 18 N., S. 41 on N. E.

R. 10 E., S. 6 on S. E.

S. 17 N., S. 1 on S. W. and

R. 9 E., S. 36 on N. W. faces, with 6

notches on each edge and a number of stones around post, from which bears a yellow pine, 30 ins. dia, N. 65th E., 190 lbs. dist.

V. boundary V. 18 N., R. 9 E., G. 4th S. R. 11.

Chains.

marked V. 18 N., R. 10 E., S. 31 R. V.

A Yellow Pine, 28 ins. dia, S. 45¹/₂° W., 107 lks. dist,

marked V. 17 N., R. 9 E., S. 1 R. V.

A Yellow Pine, 36 ins. dia, N. 23¹/₂° W., 200 lks. dist,

marked V. 18 N., R. 9 E., S. 36 R. V. In

West on a random line, bet. secs 1 & 36.

Var. 14° 45' East.

Ascend gradually.

40.00 To old '74 sec. cor, which is a post,

set firmly in the ground, marked '74 S
on N. face, with a stone mound
around post; from which bear:

A Yellow Pine, 11 ins. dia, N. 22° E., 37 lks. dist,

marked '74 S. R. V.

A Yellow Pine, 18 ins. dia, S. 12¹/₂° W., 64 lks. dist,

marked '74 S. R. V.

80.00 To a point 15 lks. North of sec. cor.

to secs. 1, 2, 35 & 36 which is a

post, set firmly in the ground, marked

V. 18 N., S. 36 on N. E.

R. 9 E., S. 1 on S. E.

S boundary S. 18 N. R. 9 E., G. & S. R. M.

Chains

S. 17 N., S. 2 on S. W. and
S. 35 on N. W. faces, with 1 notch
on E. and 5 notches on W. edges and
a mound of stone around part,
from which bears:

A Yellow Pine, 16 ins. dia, N. 72 $\frac{1}{2}$ ° E., 64 lks. dist,
marked S. 18 N., R. 9 E., S. 36 R. 17

A Yellow Pine, 8 ins. dia, S. 33° E., 80 lks. dist,
marked S. 17 N., R. 9 E., S. 1 R. 17

A Yellow Pine, 26 ins. dia, N. 10° W., 129 lks. dist,
marked S. 18 N., R. 9 E., S. 35 R. 17

The return course is therefore N. 87° 54' E.

Land rolling.

Soil good rate.

Heavy timber of yellow Pine and
undergrowth of same and juniper.

N. boundary T. 18 N., R. 9 E., S. 2nd S. R. 11.

Chains.

West on a random line, bet. secs 2nd & 35.

Wa. 14° 45' East.

Ascend.

- 3.71 A Yellow Pine, 30 ins. dia.
- 21.80 W Spring brass U., 30 lks. dist.
- 36.65 Acacia brass U., 10 lks. dist.
- 40.00 To old '14 sec. cor, which is a post set firmly in the ground, marked '14 U on U. face and a mound of stone around post; from which brass:
- A Yellow Pine, 34 ins. dia, U. 70° E, 8 lks. dist, marked '14 U. B. V.
- A Yellow Pine, 24 ins. dia, S. 45° W, 54 lks. dist, marked '14 U. B. V.
- 43.35 A Yellow Pine, 30 ins. dia.
- 70.80 Top of Ridge, brass U. 45° E, 2nd descend.
- 80.00 To a point 15 lks. North of old cor. to secs. 2, 3, 34th & 35, which is a post set firmly in the ground, marked T. 18 N., S. 35 on N. E. R. 9 E., S. 2 on S. E.

S. boundary T. 18 N., R. 9 E., C. and S. R. M.

Chains

T. 17 N., S. 300 S. W., and

S. 34 on N. W. faces, with 2 notches
on E. On 4 notches on W. edges;

From which bear:

A Yellow Pine, 18 ins. dia, N. 11° E., 67 lbs. dia,
marked T. 18 N., R. 9 E., S. 35 B. C.

A Yellow Pine, 28 ins. dia, S. 58° E., 105 lbs. dia,
marked T. 17 N., R. 9 E., S. 2 B. C.

A Yellow Pine, 20 ins. dia, S. 85° W., 49 lbs. dia,
marked T. 17 N., R. 9 E., S. 3 B. C.

A Yellow Pine, 30 ins. dia, N. 32° W., 107 lbs. dia,
marked T. 18 N., R. 9 E., S. 34 B. C.

The return course is therefore N. 89° $52'$ E.

Land rolling and mountainous.

Soil 3rd rate.

Heavy timber of Yellow Pine and
undergrowth of same.

S. boundary T. 18 N., R. 9 E., G. & S. R. M.

Chain

West on a random line, bet. secs. 3rd & 34th,Va. $14^{\circ} 45'$ East.

Descend abruptly.

13.55 Cross road, bears N. 80° W. $\frac{3}{4}$ S. 35° E.14.25 Cross Run, course N. W. and
ascend abruptly.23.15 Top of Spur, bears N. $\frac{3}{4}$ S. $\frac{3}{4}$ W. descend.40.00 To sec. 14 sec. cor, which is a post
set firmly in the ground, marked $\frac{1}{4}$ c.
on N. face, with a stone mound
around post; from which bears:
A yellow Pine, 16 ins. dia., N. 44° E., 73 lks. dist,
marked $\frac{1}{4}$ S. B. T.A yellow Pine, 18 ins. dia., S. 32° W., 56 lks. dist,
marked $\frac{1}{4}$ S. B. T.

44.80 A yellow Pine, 20 ins. dia.

80.00 To a point 20 lks. North of corner
to secs. 3, 4, 33rd & 34th, which is a
post set firmly in the ground, marked
T. 18 N., S. 34 on N. E.
R. 9 E., S. 3 on S. E.

S boundary T. 18 N., R. 9 E., G. & S. R. M.

Observ

T. 17 N., S. 4 on S.W. and

S 33 on N.W. faces, with 3 notches
on E. & W. edges; from which bear:

A Yellow Pine, 20 ins. dia, N. $73^{\circ}10'$ E., 31 lks. dist,
marked T. 18 N., R. 9 E., S. 34 B. V.

A Yellow Pine, 26 ins. dia, S. $41^{\circ}10'$ E., 56 lks. dist,
marked T. 17 N., R. 9 E., S. 3 B. V.

A Yellow Pine, 28 ins. dia, S. $77^{\circ}10'$ W., 17 lks. dist,
marked T. 17 N., R. 9 E., S. 4 B. V.

A Yellow Pine, 14 ins. dia, N. 47° W., 118 lks. dist,
marked T. 18 N., R. 9 E., S. 33 B. V.

The return course is therefore N. $89^{\circ}51'$ E.

Land mountainous.

Soil 3rd rate.

Heavy timber of Yellow Pine ^{and}
undergrowth of same.

S. boundary T. 18 N., R. 9 E., G. & S. R. M.

Chains.

West on a random line, bet. secs 4 & 33.
Wa. $14^{\circ} 45'$ East.

Descend.

- 40.00 To a point 9 lks. North of sec. 14 cor., which is a post set firmly in the ground, marked 74 S. on N. face, with a mound of stone around post, from which bears:
 - a yellow Pine, 18 in. dia., N. 25° E., 183 lks. dist., marked 74 S. R. V.
 - a yellow Pine, 2 in. dia., S. 81° E., 22 lks. dist., marked 74 S. R. V.

The return course is therefore N. $89^{\circ} 52'$ E.

68.00 Cross Ravine ~~course~~ N. 45° E. and ~~is~~
across abruptly.

- 80.00 To a point 10 lks. North of sec. 5 cor. to Secs. 4, 5, 32 & 33, which is a post set firmly in the ground, marked T. 18 N., S. 33 on N. E. R. 9 E., S. 4 on S. E. T. 17 N., S. 5 on S. W. and

S. boundary V. 18 N., R. 9 E., G. & S. R. M.

Chassis.

S. 22 on N.W. faces, with 4 notches on
E. and 21 notches on W. edges;

front which bears:

A Yellow Pine, 25 ins. dia., N. 51° E., 68 lks. dist.,
marked V. 18 N., R. 9 E., S. 38 B. V.

A Yellow Pine, 20 ins. dia., S. 68° E., 80 lks. dist.,
marked V. 17 N., R. 9 E., S. 4 B. V.

A Yellow Pine, S. 73° W., 25 ins. dia., 87 lks. dist.,
marked V. 17 N., R. 9 E., S. 5 B. V.

A Yellow Pine, 30 ins. dia., N. 30° W., 62 lks. dist.,
marked V. 18 N., R. 9 E., S. 32 B. V.

The return course is therefore N 89° 56' E.

Land rolling.

Soil 3rd rate.

Heavy timber of Yellow Pine and
undergrowth of same.

S. boundary, T. 18 N., R. 9 E., G. and V. R. W.

Chanis

Westward random line, bet. secs. 5 and 32

Yd. $14^{\circ}45'$ East.

Ascend abruptly

21.00 Top of ridge, bears N. $60^{\circ}W.$ and descend.

32.00 Cross Ravine, corner S. and ascend.

40.00 To old '14 sec. cor, which is a post set firmly in the ground, marked '14 S. on N. face, with a stone mound around post; from which bears:
 A Yellow Pine, 20 ins. dia, N. $70^{\circ}E$, 12 lks. dist, marked '14 S. B. V.

A Yellow Pine, 20 ins. dia, S. $52^{\circ}W$, 14 lks. dist, marked '14 S. B. V.

40.15 A Yellow Pine, 24 ins. dia.

62.03 A Yellow Pine, 30 ins. dia.

80.00 To a point 10 lks. North of corner to secs. 5, 6, 31 and 32, which is a post set firmly in the ground, marked T. 18 N., S. 32 on N. E.
 R. 9 E., S. 5 on S. E.
 T. 17 N., S. 6 and S. W. and

boundary T. 18 N., R. 9 E., G. & S. C. M. M.

No. 1389

S. 31 on N.W. faces, with 5 notches
on E. and 1 notch on W. edges;

from which bears:

A yellow Pine, 36 vis. dia, N. $17^{\circ} E$, 70 lbs. dist,
marked T. 18 N., R. 9 E., S. 32 B. V.

A yellow Pine, 30 vis. dia, N. $65^{\circ} E$, 100 lbs. dist,
marked T. 17 N., R. 9 E., S. 5 B. V.

A yellow Pine, 36 vis. dia, N. $72^{\circ} W$, 81 lbs. dist,
marked T. 17 N., R. 9 E., S. 6 B. V.

A yellow Pine, 20 vis. dia, N. $59^{\circ} W$, 125 lbs. dist,
marked T. 18 N., R. 9 E., S. 31 B. V.

The return course is therefore N. $89^{\circ} 56' E$.

Land mountains.

Soil 3rd rate.

Heavy timber of yellow Pine and
undergrowth of same.

S. boundary T. 18 N., R. 9 E., G. W. S. R. M.

Louisia

West and random lines bet secs. 6th & 31.
Var. 14° 45' East.

Ascend.

11.75 Top of Ridge, bears N. 50° E. ⁹/₁₆ descend.

34.00 A yellow Pine, 36 ins. dia.

40.00 To old 14 sec. cor., which is a post set firmly in the ground, marked 14 S. on N. face, with a straw mound around post; from which bear:
a yellow Pine, 24 ins. dia., N. 70° E., 67 lks. dist, unmarked 14 S. B. S.

A yellow Pine, 20 ins. dia., S. 65° W., 14 lks. dist, unmarked 14 S. B. S.

71.57 A yellow Pine, 12 ins. dia.

78.80 A yellow Pine, 20 ins. dia.

79.90 To sea cor. to Tps. 17th & 18th N.,
R. 8th & 9th E., which is a post set firmly in the ground, marked
T. 18 N., S. 31 on N. E.
R. 9 E., S. 6 on S. E.
T. 17 N., S. 1 on S. W. and

S. boundary T. 18 N., R. 9 E., G. and S. R. M.

Chassis

R. 9 E., S. 36 on N.W. faces, with 6 notches on each edge and a mound of stone around post;

from which bears:

A yellow Pine, 10 ins. dia, N. 42° E, 116 lbs. dist, marked T. 18 N., R. 9 E., S. 31 R. V.

A yellow Pine, 28 ins. dia, S. 43° E, 149 lbs. dist, marked T. 17 N., R. 9 E., S. 6 R. V.

A yellow Pine, 20 ins. dia, S. 27° W, 46 lbs. dist, marked T. 17 N., R. 8 E., S. 1 R. V.

A yellow Pine, 12 ins. dia, N. 10° W, 77 lbs. dist, marked T. 18 N., R. 9 E., S. 36 R. V.

Land mountainous.

Soil 3rd rate.

Heavy timber of yellow Pine and undergrowth of same.

May 21st 1883.

W. boundary T. 18 N., R. 9 E., G. & S. R. M.

Chains

From the cor. to Tps. 17th and 18th N.,
 first described by me
 R. 8th and 9th E., I run

North on a random line, bet. sec. 31st and 36th,
 Va. $14^{\circ} 45'$ East.

Ascend.

- 15.51 A Pine, 20 ins. dia.
- 40.00 To old 44 sec. cor., which is a post
 set firmly in the ground, marked
 44th on W. face, with a mound of
 stone around post, from which bears:
 A yellow Pine, 24 ins. dia., S. 30° E., 60 lks. dist,
 marked 44 S. B. I.
 A yellow Pine, 14 ins. dia., N. 71° W., 56 lks. dist,
 marked 44 S. B. I.
- 40.81 A yellow Pine, 15 ins. dia.
- 50.42 A yellow Pine, 20 ins. dia.
- 56.92 A yellow Pine, 36 ins. dia.
- 70.00 Top of Spur, bears S. 70° E. and descend.
- 80.00 To old cor. to sec. 25, 30, 31st and 36th, which
 is a post, set firmly in the ground, marked
 T. 18 N. & 30 on N. E.

W. boundary V. 18 N., R. 9 E., G. and S. R. M.

Chains

R. 9 E., V. 31 and V. E.

R. 8 E., V. 36 and S. W. and

S. 25 on N. W. faces, with 1 notch on S.

and 5 notches on N. edges; found which bears:

A Yellow Pine, 18 ins. dia, N. 60° E., 108 lbs. dist,
marked V. 18 N., R. 9 E., V. 30 B. V.

A Yellow Pine, 24 ins. dia, V. 30° E., 49 lbs. dist,
marked V. 18 N., R. 9 E., V. 31 B. V.

A Yellow Pine, 14 ins. dia, V. 82 1/2° W., 161 lbs. dist,
marked V. 18 N., R. 8 E., V. 36 B. V.

A Yellow Pine, 36 ins. dia, N. 39° W., 144 lbs. dist,
marked V. 18 N., R. 8 E., V. 25 B. V.

Land rolling.

Soil 3rd rate.

Heavy timber of Pine and Oak and
undergrowth of same.

W. boundary T. 18 N., R. 9 E., G. & V. R. W.

Chapin

North on a random line, bet. secs. 20th & 24th

Var. $14^{\circ} 40'$ East.

Descend.

28.00 Cross barrie, course E. $\frac{3}{4}$ ascend.

40.00 To old $\frac{1}{4}$ sec. cor., which is a post set firmly in the ground, marked $\frac{1}{4}$ S. on W. face, with a stone mound around post; from which bears:
A yellow Pine, 2 Pines, dist. N. 36° E., 34 lks. dist, marked $\frac{1}{4}$ V. R. V.

67.00 Top of O'bur, bears E. $\frac{3}{4}$ W. $\frac{3}{4}$ descend.

80.00 To old cor. to sec. 19, 24, 25th & 30, which is a post, set firmly in the ground marked T. 18 N. V. 19 on N.E.

R. 9 E., V. 30 on V. E.

R. 8 E., V. 25 on V. W. and

V. 24 on N.W. faces, with 2 notches on S. $\frac{3}{4}$ W. notches on N. edges and a mound of stone around post;

From which bears:

A yellow Pine, 3 Pines, dist. N. 65° E., 10 lks. dist,

W. boundary T. 18 N., R. 9 E., S. 19 R. 1.

Linnæus

marked T. 18 N., R. 9 E., S. 19 R. 1.

A yellow Pine, 20 ins. dia., N. 30° E., 104 lks. dist.,

marked T. 18 N., R. 9 E., S. 30 R. 1.

A yellow Pine, 24 ins. dia., N. 54 1/2° W., 58 lks. dist.,

marked T. 18 N., R. 8 E., S. 25 R. 1.

A yellow Pine, 30 ins. dia., N. 33° W., 58 lks. dist.,

marked T. 18 N., R. 8 E., S. 24 R. 1.

Lavas mountains.

Soil 3rd mte.

Many timber of yellow Pine and
undergrowth of some Red Oak.

North on random line, bet. secs. 19 & 24.

Var. 14° 45' East.

Descend.

25.00 Cross Wash, 70 lks. wide, course
S. 50° E. and ascend.

40.00 To a point 10 lks. E. of old 1/2 sec. cor.,
which is a post set firmly in the
ground, marked '4 S. on W. face, with
a stone mound around post;

W. boundary V. 18 N., R. 9 E., G. W. S. R. M.

Cranio

from which bears:

A yellow Pine, 10 ins. dia., N. 85° E., 51 lks. dist,
marked V. 18 N. R. 9 E.

A yellow Pine, 36 ins. dia., N. 60° W., 25 lks. dist,
marked V. 18 N. R. 9 E.

The return course is therefore S. 9° E.

P. 00 To old cor. to secs. 13, 18, 19th & 24, which
is a post set firmly in the ground, marked
V. 18 N., S. 18 on N. E.

R. 9 E., S. 19 on S. E.

R. 8 E.; S. 24 on S. W. and

S. 13 on N. W. faces, with 3 notches on
N. & S. edges, with a stone mound
around post; from which bears:

A yellow Pine, 14 ins. dia., N. 85° E., 65 lks. dist,
marked V. 18 N., R. 9 E., S. 18 R. 9 E.

A yellow Pine, 14 ins. dia., S. 61° E., 50 lks. dist,
marked V. 18 N., R. 9 E., S. 19 R. 9 E.

A yellow Pine, 20 ins. dia., S. 10 1/2° W., 47 lks. dist,
marked V. 18 N., R. 8 E., S. 24 R. 9 E.

A yellow Pine, 12 ins. dia., N. 20 1/2° W., 75 lks. dist,

W. boundary T. 18 N., R. 9 E., S. 13 B. V.

Chain

marked T. 18 N., R. 9 E., S. 13 B. V.

Land rolling.

Soil 3rd rate.

Heavy timber of Yellow Pine and
undergrowth of same and Oak.

North on a random line, bet. sec. 13th & 14th.

Pa. $14^{\circ}45'$ East.

Ascend.

32.00 Top of Spur, bears E. 2° W. 2^{nd} descend.

40.00 To a point 10 lks. E. of old 1^{st} sec. cor.,
which is a post set firmly in the
ground, marked 14 S. on W. face,
with a stone mound around post;

From which bears:

a Yellow Pine, 12 ins. dia., N. 65° E., 15 lks. dist.,
marked 14 S. B. V.

a Yellow Pine, 30 ins. dia., N. 75° W., 68 lks. dist.,
marked 14 S. B. V.

The return course is therefore S. 9° E.

45.00 Cross Ramee, course E. 2° ascend.

W. boundary T. 18 N., R. 9 E., S. 7 on S. R. M.

Chains.

80.00 Good cor. to secs. 7, 12, 13 and 18
 which is a post, set firmly in
 the ground, marked
 T. 18 N., S. 7 on N.E.
 R. 9 E., S. 18 on S.E.
 R. 8 E., S. 13 on S.W. and
 S. 12 on N.W. faces, with 4 notches
 on S. ² and 2 notches on N. edges,
 from which bear:

A Yellow Pine, 14 ins. dia., N. 62° E., 131 lks. dist,
 marked T. 18 N., R. 9 E., S. 7 B.C.

A Yellow Pine, 20 ins. dia., S. 65° E., 68 lks. dist,
 marked T. 18 N., R. 9 E., S. 18 B.C.

A Yellow Pine, 10 ins. dia., S. 20 1/2° W., 70 lks. dist,
 marked T. 18 N., R. 8 E., S. 13 B.C.

A Yellow Pine, 10 ins. dia., N. 77° W., 65 lks. dist,
 marked T. 18 N., R. 8 E., S. 12 B.C.

Land mountainous

Soil 3rd rate.

Heavy timber of yellow Pine and
 undergrowth of same and Oak.

W. boundary T. 18 N., R. 9 E., G. & S. R. M.

Chain

North on a random line bet. secs. 7 & 12;

Var. $14^{\circ} 45'$ East.

Ascend.

- 15.00 Top of Spur, bear N. 60° E. and descend.
- 32.00 Cross Ravine, course N. 60° E. and ascend.
- 40.00 To old '14 sec. cor, which is a post set firmly in the ground, marked '14 S. on W. face, with a stake nailed around post; from which bear:
- A yellow Pine, 30 ins. dia, N. 17° E, 41 lks. dist, marked '14 S. B. 1.
- A yellow Pine, 13 ins. dia, S. 85° W, 14 lks. dist, marked '14 S. B. 2.
- 82.00 To a point 10 lks. E. of old cor. to secs. 1, 6, 7 & 12, which is a post set firmly in the ground, marked T. 18 N., S. 6 on N. E.
- R. 9 E., S. 7 on S. E.
- R. 9 E., S. 12 on S. W. and
- S. 1 on N. W. face, with 5 notches on S. and 1 notch on N. edges;

W. boundary T. 18 N., R. 9 E., G. 2 S., R. 11

Bellevue

from which trees:

A Yellow Pine, 12 ins. dia., N. 68° 10' E., 105 lbs. dia.,
marked T. 18 N., R. 9 E., S. 6 B. 7

A Yellow Pine, 14 ins. dia., S. 42° E., 118 lbs. dia.,
marked T. 18 N., R. 9 E., S. 7 B. 7

A Yellow Pine, 28 ins. dia., S. 10° 45' W., 61 lbs. dia.,
marked T. 18 N., R. 8 E., S. 12 B. 7

A Yellow Pine, 33 ins. dia., N. 80° W., 110 lbs. dia.,
marked T. 18 N., R. 8 E., S. 1 B. 7

The return course is therefore S. 9° E.

Land mountainous.

Soil 3rd rate.

Heavy timber of Yellow Pine and
undergrowth of same and Oak.

W. boundary T. 18 N., R. 9 E., G^{and} S. R. M.

Chassis

Went on a random line, bet. secs. 1^{and} 6

Var. 14° 45' East.

Ascend.

26.00 Top of V spur, trans E. ^{and} W. ^{and} descend.

40.00 To sec 14 sec. cor, which is a post,
set firmly in the ground, marked
14 N. on W. face, with a stone
mound around post, from which trans:
A yellow Pine, 20 ins. dia, S. 75° E., 79 lks. dist,
marked 14 S. B. V.

A yellow Pine 14 ins. dia, N. 30° W., 50 lks. dist,
marked 14 S. B. V.

77.95 To a point 15 lks. E. of sec cor. to
T^{ps}. 18^{and} 19 N., R. 8^{and} 9 E.,
which is a post set firmly in
the ground, marked
T. 19 N., S. 31 on N. E.
R. 9 E., S. 6 on S. E.
T. 18 N., S. 1 on S. W. and
R. 8 E., S. 36 on N. W. faces, with 6
notches on each edge and a mound

W. boundary $\text{N. } 18^{\circ} \text{N.}, \text{R. } 9^{\circ} \text{E.}, \text{G. } \frac{1}{4} \text{ S. R. } \text{W.}$

Chains

- of stone around post; from which bears:
- A yellow Pine, 30 vis. dia., $\text{N. } 47^{\circ} \text{E.}, 47 \text{ lbs. dist.}$,
marked $\text{N. } 19^{\circ} \text{N.}, \text{R. } 9^{\circ} \text{E.}, \text{S. } 3 \text{ R. } \text{W.}$
- A yellow Pine, 40 vis. dia., $\text{S. } 15^{\circ} \text{E.}, 26 \frac{1}{2} \text{ lbs. dist.}$,
marked $\text{N. } 18^{\circ} \text{N.}, \text{R. } 9^{\circ} \text{E.}, \text{S. } 6 \text{ R. } \text{W.}$
- A yellow Pine, 30 vis. dia., $\text{S. } 64^{\circ} \text{W.}, 113 \text{ lbs. dist.}$,
marked $\text{N. } 18^{\circ} \text{N.}, \text{R. } 8^{\circ} \text{E.}, \text{S. } 1 \text{ R. } \text{W.}$
- A yellow Pine, 24 vis. dia., $\text{N. } 53^{\circ} \text{W.}, 119 \text{ lbs. dist.}$,
marked $\text{N. } 19^{\circ} \text{N.}, \text{R. } 8^{\circ} \text{E.}, \text{S. } 36 \text{ R. } \text{W.}$

The return course is then for $\text{S. } 13^{\circ} \text{E.}$

Lane mountains.

Soil 3rd rate.

Heavy timber of yellow Pine and
undergrowth of same and Oak.

I carefully examined the adjustments
of my solar compass today,
particularly the latitude and
meridian apparatus and found
them correct.

May 22nd 1883

4th Standard Parallel N, along
S. boundary, T. 17 N., R. 11 E., G. and S. R. M.

Chassis

Before proceeding with the retracing
of this boundary, I made a change
of 11 minutes in the latitude arc
of my solar compass, by subtracting
same from the reading previously
given and at noon verified and
corrected same, by observation on
the sun. I also further tested
instrument by reversing. I took
the latitude ~~and~~ found it to be $34^{\circ}47'N$.

From the Standard Cor. to T. 17 N.
R. 10 ^W 11 E, which is a post
set firmly in the ground, marked
S. E. T. 17 N. or N.

R. 10 E, S. 36 or W. and

R. 11 E, S. 31 or E. face, with 6 notches
on ^N ~~E~~ W face and a mound of stone
around post, I run

East on a random line, on S. boundary of sec. 31.

Lat. $14^{\circ}48'$ East.

Descend.

37 BOOK ^{Retracing} H^{ts} Standard Parallel U., along
S. boundary T. 17 N., R. 11 E., G. W. S. R. U.

Observ.

- 17.00 Cross head of cañon, course N. E. ^W ascend.
- 40.00 Look ^{Stand} at 14 sec. cor., which is a sand
stone, set firmly in the ground, marked
S. E. 1/4 on N. face, with a mound of
stone along side; from which bears:
A Yellow Pine, 24 ins. dia., N. 75° E., 130 lks. dist,
marked S. E. 1/4 V. B. C.
A Yellow Pine, 22 ins. dia., N. 30 1/2° W., 85 lks. dist,
marked S. E. 1/4 V. B. C.
- 75.50 A Yellow Pine, 20 ins. dia.
- 80.00 Look Standard cor. to secs. 31 ^{and} 32,
which is a sandstone set firmly
in the ground, marked S. E. with
5 notches on E. ^{and} 1 notch on W.
edges, with a stone mound along side;
from which bears:
A Yellow Pine, 22 ins. dia., N. 57° W., 174 lks. dist,
marked T. 17 N., R. 11 E., S. 31 V. B. C.
Land rolling. Soil 3rd mte.
Timber of Pine ^{and} Juniper ^{and} dense
undergrowth of same.

4th Standard Parallel N., along

BOOK 1389 38

S. boundary T. 17 N., R. 11 E., S. 1st & S. R. M.

Chains

East on a random line on S. boundary of sec. 32.

Ca. $14^{\circ}40'$ East.

Over rolling land.

40.00 To old ^{Stump} $\frac{1}{4}$ sec. cor., which is a sandstone set firmly in the ground, marked S. C. 14 on N. face, with a stone mound alongside;

from which brass:

A Juniper, 20 ins. dia, S. $20^{\circ}W$, 172 lks. dist, marked S. C. 14 N. B. V.

80.00 To old Standard cor. to secs. 32 & 33 which is a sandstone, set firmly in the ground, marked S. C. with 4 notches on E. face, 2 notches on W. edges, with a stone mound alongside; from which brass
a cone, N. $22^{\circ}E$, 15.00 chs. dist.

Land rolling.

Soil 3rd etc.

Timber of Pine and Juniper and undergrowth of same.

89 BOOK 15 Ketracing
4th Standard Parallel N, along
S. boundary T. 17 N, R. 11 E, G. 4th S. of M.

Chanis

East was random line, on S. boundary of sec. 33
Y. 14° 40' East.

Over rolling land.

19.00 Cross Wash, 20 fts. wide, course
S. 60° E.

40.00 1/2 old Standard 1/4 sec. cor, which is a
sandstone, set firmly in the ground, marked
S. C. 1/4 on N. face, with a stake mound
along side.

73.40 Cross same Wash, course N. 40° E.
and ascend.

80.00 1/2 old Standard cor. to secs. 33 & 34,
which is a sandstone, set firmly in the
ground, marked S. C. with 3 notches on
E. ^{and} W. edges and a stake mound
along side; from which bears:
A Yellow Pine, 20 ins. dia, N. 60° W, 33 fts. dist,
marked T. 17 N, R. 11 E, S. 33 R. 1
Land rolling. Soil 3rd mtet.
Timber of Pine.
Vegetation, bunchy grass.

4th Standard Parallel N., along
S. boundary T. 17 N., R. 11 E., G. 2nd S. R. M.

Chains

East on a random line on S. boundary sec. 34,
Val. 14°40' East.

Ascend.

- 35.00 Top of Spur, bears N. and descend.
- 40.00 1/2 old Standard 1/4 sec. cor., which
is a sandstone, set firmly in the
ground marked N. C. 14 on N. face,
with a stake mound alongside.
- 50.00 1/2 old Standard cor. to sec.
34 & 35, which is a sandstone
set firmly in the ground, marked
S. C. with 2 notches on E. and 4
notches on W. edges, with a stake
mound alongside.

Land rolling.

Soil 3rd rate.

Timber of Pine and Juniper.

Vegetation, bunchgrass

41 150 Retracing
BOOK 4th Standard Parallel N., along
S. boundary of 17 N., R. 11 E., E. and S. R. 11.

Chain is

East on a random line, on S. boundary of sec. 35

N. $14^{\circ}40'$ East.

Descends gradually.

40.00 To old Standard 14 sec. cor, which is
a sandstone, set firmly in the ground,
marked S. C. 14 on N. face, with a
stone mound alongside, in low sag,
and ascends.

80.00 To a point 15 lks. South of old Standard
cor. to secs. 35th & 36, which is a
sandstone, set firmly in the ground,
marked S. C. with 1 notch on E. and
5 notches on W. edges with a stone
mound alongside.

The return course is then from S. 87th & 7th W.
Land rolling.

Soil 3rd rate.

Timbers of Pine and Juniper.

Vegetation, bunchgrass.

S. boundary T. 17 N., R. 11 E., S. 1st S. R. M.

Observations

East as a random line, and S. boundary of sec. 36.

Var. $14^{\circ} 40'$ East.

Ascend.

6.00 Top of Ridge, trans N. and S. ^{2nd} descend.10.00 To a point 30 lks. S. of old Standard ^{1st}
sec. cor., which is a sandstone, set firmly
in the ground, marked S. C. 14 on N. face, with
a stone mound alongside.The return course is then for S. $87^{\circ} 34'$ W.20.00 To a point 10 lks. South of old Standard
cor. to Tps. 17 N., R. 11 ^{2nd} 12 E., which
is a post, set firmly in the ground,
marked S. C. T. 17 N. on N.

R. 12 E., S. 81 on E. and

R. 11 E., S. 86 on W. faces, with catches
on N. E. ^{2nd} W. faces and a mound of
stone around post.The return course is then for S. $89^{\circ} 51'$ W.Low mountains. Soil 3rd rate,
Vegetation, brushy mes.Hunter of Juniper. June 4th 1883

W. Boundary T. 17 N., R. 11 E., G. 2nd S. R. 111.

Chains.

From the Standard cor. to T. 17 N.,
 R. 10 ^{2nd} E., ^{Just described by me} I run

North on a random line, bet. secs. 31 & 36,

Pa. $14^{\circ} 40'$ East

Ascend.

40.00 To old '74 sec. cor. which is a post set
 firmly in the ground, marked '74 on
 W. face, with a stone mound
 around post.

58.00 Top of Spur, bears N. 70° W. $\frac{2}{3}$ S. 70° E. $\frac{2}{3}$ down.

72.50 Cross Ravine, course S. 70° E. $\frac{2}{3}$ ascend

80.00 To old cor. to secs. 25, 30, 31 & 36, which
 is a post, set firmly in the ground, marked
 T. 17 N., S. 30 on N.E.

R. 11 E., S. 31 on S.E.

R. 10 E., S. 36 on S.W. $\frac{2}{3}$ S. 25 on N.W. face,
 with 1 notch on S. $\frac{2}{3}$ 5 notches on N. edges
~~was~~ a stone mound around post.

Land rolling. Soil 3rd rate

Timber of Pine & Juniper.

Vegetation, bunchgrass.

W. boundary T. 17 N., R. 11 E., S. 30 S. R. M.

Columns

North to and random line, bet. secs. 25 & 30.

Var. 14° 35' East.

Accord.

40.00 To old 74 sec. cor, which is a post set firmly in the ground, marked 74 S. on W. face with a stone name around post.

80.00 To old cor. to secs. 19, 24, 25 & 30, which is a post set firmly in the ground marked T. 17 N., S. 19 on N.E.

R. 11 E., S. 30 on S.E.

R. 10 E., S. 25 on S.W. & S. 24 on N.W.

faces, with 2 notches on S. & 4

notches on N. edges and a stone

name around post; from which pass:

a jumper, 8 ins. dia, N. 65° E., 105 lks. dist, marked T. 17 N., R. 11 E., S. 30 B. V.

a jumper, 8 ins. dia, N. 55° W., 42 lks. dist, marked T. 17 N., R. 10 E., S. 24 B. V.

Land rolling. Soil 3rd site.

Timber of Pine & Juniper.

W. boundary V. 17 N., R. 11 E., G. & S. R. 11

Loewis

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

Yr. 14° 35' East.

Ascend gradually.

8.00 Top of Ridge, trans E. & W. & descend

40.00 To old '4 sec. cr., which is a post
set firmly in the ground, marked
'4 S. on W. face and a stone mound
around post.

50.00 To old cr. to secs. 13, 14, 19 & 24,
which is a post set firmly in the
ground, marked V. 17 N., S. 18 on N. E.
R. 11 E., S. 19 on S. E.

R. 10 E., S. 24 on S. W. and
S. 13 on N. W. faces, with 3 notches on
N. & S. edges and a stone mound
around post.

Land rolling.

Soil 3rd mts.

Traces of Pines & Juniper }
Vegetation bunchgrass.

boundary S. 17 N., R. 11 E., S. 13 & S. R. 11

use

North on a random line, bet. secs. 13th & 18th S.
Va. 14° 35' East.

Descend.

11.00 Cross Wash, 60 lks. wide, course N 80° E,
and ascend.

40.00 To old 14 sec. cor, which is a post set
firmly in the ground, marked N 1/2 on
W. face, with a stone mound around post.

78.00 Top of Ridge, bears S. 80° E. and descend.

80.00 To old cor. to secs. 7, 12, 13th & 18, which
is a post, set firmly in the ground, marked
S. 17 N., S. 7 on N.E.
R. 11 E., S. 18 on S.E.

R. 10 E., S. 13 on S.W. and S. 12 on N.W. faces,
with 4 notches on S. & 2 notches on N.
edges; from which bears:

A Juniper, 12 in. dia, S. 40° W., 31 lks. dist,
marked S. 17 N., R. 10 E., S. 13 B. S.

Land rolling. Soil 3rd rate.

Timber of Juniper.

Vegetation bunchgrass.

W. boundary T. 17 N., R. 11 E., S. 1/2 S. R. 11.

Claims

North on a random line bet. secs. 7 & 12.

Wa. $14^{\circ} 35'$ East.

Descend.

- .30 Cross road, bears N. 85° E.
 - 13.00 Cross Ravine, course N. E. $\frac{3}{4}$ ascend.
 - 26.00 Top of Spur, bears N. E. $\frac{3}{4}$ descend.
 - 40.00 To old $\frac{1}{4}$ sec. cor., which is a post set firmly in the ground, marked $\frac{1}{4}$ sec. on N. face, with a stake around post.
 - 40.70 Cross road, bears N. W. $\frac{3}{4}$ S. E.
 - 50.18 To a point 20 lks. E. of old cor. to secs 1, 6, 7 $\frac{3}{4}$ 12, which is a post set firmly in the ground, marked T. 17 N., S. 6 on N. E. R. 11 E., S. 7 on S. E. R. 10 E., S. 12 on S. W. and S. 1 on N. W. faces, with 5 notches on S. $\frac{3}{4}$ 1 notch on N. edges and a stake around post.
- The return course is therefore 97° E.

W. boundary V. 17 N., R. 11 E., S. 1 and S. R. M.

Claims.

Land mountains.

Soil 3rd rate.

Timber of Juniper.

Vegetation, bunchgrass.

North on a random line, bet. secs. 1st & 6.

Ya. $14^{\circ} 35'$ East.

Our rolling land.

40.00 To a point 20 lks. E. of old $1/4$ sec. cor., which is a post, set firmly in the ground, marked $1/4$ S. on W. face, with a stone mound around post.

The return course is therefore S. 17° E.

80.15 To old cor. to V. ps. 17th and 18th N.,

R. 10th and 11 E., which is a post set firmly in the ground, marked V. 18 N., S. 3/4 and N. E.

R. 10 E., S. 6 and S. E.

V. 17 N., S. 1 and S. W. and

R. 10 E., S. 3/4 and N. W. faces, with

W. boundary of 17 N, R. 11 E, G. Sec. S. R. 11

Chassis

6 notches on each edge and a mound of stone around post;

Draw which runs:

A jumper, 20 vis. dia, S. 10° E, 70 lb. dist,
marked C. 17 N, R. 11 E, S. 6 B. 7

Corner set on top of Spur, runs N-W.

Land mountainous and rolling.

Soil 3rd note.

Timber of Jumper.

Vegetation, bunch grass.

I carefully examined the adjustments
of my solar compass today,
particularly the latitude and
meridian apparatus and found
them correct.

June 6th 1883.

W. boundary T. 16 N., R. 11 E., S. 21 S. R. M.

Chains,

Before proceeding with the retracing of this boundary, I made a change of 25 minutes in the latitude arc of my solar compass by subtracting same from the reading previously given and at noon, verified and corrected same, by observation on the sun, I also further tested instrument by reversing. I took the latitude and found it to be $34^{\circ}42'N$. From the cor. to Tps. 15th and 16th N., R. 10th and 11th E., which is a post set firmly in the ground, marked T. 16 N., S. 31 on N.E. R. 11 E. S. 6 on S.E. R. 10 E., S. 1 on S.W. and S. 36 on N.W. faces, with 6 notches on each edge and a mound of stone around post, I run North on a random line, bet. sec. 31 & 36.

Wa. $14^{\circ}32'$ East.

W. boundary V. 16 N., R. 11 E., S. 4 W. S. R. 11.

Behavio

Over rolling land.

- 17.00 Comes low sag and ascend.
- 38.00 Top of S spur, bear N. 70° E. & descend.
- 40.00 Go over 1/4 sec. cor, which is a sandstone, marked 1/4 on W. face with a stone mound alongside.

53.00 Enter Flat, bear E. & W.

80.00 Go over cor to secs. 25, 30, 31 & 36, where I found an earth mound and pits but no post or stones. I set a sandstone 16x10x6 in, 11 in in the ground, marked with 1 notch on S. & 5 notches on N. edges.

Land rolling.

Soil 3rd rate.

Vegetation, bunchgrass.

Abundant of Juniper.

W. boundary of 16 N., R. 11 E., S. 1/4 S. R. M.

Coburn

Flotte on a random line, bet. secs. 25 & 30,

Co. $14^{\circ} 32'$ East.

Over level land.

30.00 Near Flat, bears N. 12° E. and ascends.

40.00 To sec 14 sec cor, which is a sandstone, set firmly in the ground, marked 14 on W. face, with a stone mound along side.

50.00 Top of Spur, bears N. 20° E. and descends.

80.00 To sec cor. to secs. 19, 24, 25 and 30, which is a sandstone, marked with 2 notches on S. and 4 notches on N. edges, with a stone mound along side, in low sag, bears E. and W. Land level and broken.

Soil 3rd rate.

Timber of Pine and Juniper.

Vegetation, bunchgrass.

W. boundary T. 16 N., R. 11 E., G. 2nd S. R. 11.

Chains

North on a random line, bet. secs. 19th & 24th.

Var. 14° 32' East.

Ascend.

35.00 Top of Spur, bears N. 80° E. ⁹⁰W descend

40.00 To old 1/4 sec. cor, which is a sandstone, set firmly in the ground, marked 1/4 on W. face, with a stone mound alongside.

80.00 To old cor. to secs. 13, 18, 19th & 24th, which is a sandstone marked with 3 notches on N. & S. edges, with pits in each sec, 5 1/4 ft. dist, and an earth mound alongside.

Land mountainous.

Soil 3rd rate.

Timber of Juniper.

Vegetation, bunchgrass.

W. boundary T. 16 N., R. 11 E., S. 13rd S. R. 11.

Chanis

North and south line, bet. secs. 13rd & 18.

Var. 14° 32' East.

One level land.

37.00 Beam flat, bears N. 30° W. ^{and} ascend

40.00 To old 1/4 sec. cor, which is a sandstone, set firmly in the ground, marked 14 on W. face, with a stone mound alongside.

77.00 Top of Ridge, bears N. 80° W. ^{and} descend.

80.00 To old cor. to secs. 9, 12, 13rd & 18, which is a sandstone, set firmly in the ground, marked with 4 notches on S. ^{and} 2 notches on N. edges, with a stone mound alongside; from which bears:
A Juniper, 9 in. dia., S. 14° W., 165 lks. dist., marked T. 16 N., R. 10 E., S. 13rd S.

Land level and mountains.

Soil 300 mts.

Timber of Juniper.

Vegetation, bunchgrass.

W. boundary T. 16 N., R. 11 E., S. 1/2 S. R. W.

Chain.

North on a narrow line, bet. sees. 7th & 12,

Wa. $14^{\circ} 32'$ East.

Over rolling land.

40.00 $\frac{1}{4}$ old $\frac{1}{4}$ sec. cor., which is a sandstone, set firmly in the ground, marked $\frac{1}{4}$ on W. face, with a stone mound alongside.

80.00 $\frac{1}{4}$ old cor. to sees. 1, 6, 7th & 12, which is a sandstone set firmly in the ground, marked with 5 notches and 1 notch on N. edge, with a stone mound alongside.

Land rolling.

Soil 3rd rate.

Timber of Juniper.

Vegetation, bunchgrass.

W. boundary, T. 16 N., R. 11 E., G. and S. R. M.

Chain

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

Pa. $14^{\circ} 32'$ East.

Over rolling land.

30.00 Cross road, bears E. and W.

37.00 Cross wash, 130 yds. wide, course E.

40.00 To old 14 sec. cor., where I find
stone mound in good order, but no
post or stone. To re-mark corner I
set a sandstone $15 \times 12 \times 6$ ins. 10 ins.
in the ground, marked 14 on W
face, alongside stone mound.

41.50 Intersect 4^{th} Standard Line N., at
a point 8.00 chs. N. of the Standard
 14 sec. cor. on S. boundary sec. 33,
T. 17 N., R. 11 E., previously described,
at old closing cor. to Tps. 16 N.,
R. 10 and 11 E., which is a
sandstone set firmly in the ground
marked E. C. with 6 notches on
S., E. and W. edges and a stone
quarry along side; from which bears:

W. boundary S. 16 N., R. 11 E., S. 1 B. 7

Schairs

A yellow Pine, 15 in. dia, S. 72° W., 18 ft. dia,
marked S. 16 N., R. 10 E., S. 1 B. 7

Land rolling.

Soil 3rd rate.

Timber of Pine and Juniper.

Vegetation, bunchgrass.

June 18th 1883.

S. boundary T. 16 N., R. 11 E., S. 31 and S. R. W.

Chanis.

From the corner to Upo. 15th and 16th,
R. 11th and 12th E., which is a post
set firmly in the ground, marked

T. 16 N., S. 31 on N.E.

R. 12 E., S. 6 on S.E.

T. 15 N., S. 1 on S.W. and

R. 11 E., S. 36 on N.W. faces, with 6
notches at each edge and a mound
of stone around post;

from which bears:

A Yellow Pine, 29 ins. dia., N. 42° W., 181 lbs. dia.,
marked T. 16 N., R. 12 E., S. 31 R. 11.

A Yellow Pine, 30 ins. dia., S. 40° W., 255 lbs. dia.,
marked T. 15 N., R. 11 E., S. 1 B. 1.

A Yellow Pine, 40 ins. dia., N. 67° W., 145 lbs. dia.,
marked T. 16 N., R. 11 E., S. 36 R. 11, from

West on a random line, bet. secs. 1st and 36.

Ca. 14° 32' East.

Descend.

21.00 Cross Wash, 50 lbs. wide, course
S. 10° E. and ascend.

S. boundary, T. 16 N., R. 11 E., S. 36 on D. R. M.

Chambers

30.00 Top of Spur, cross S. 15° E. and descend.

40.00 To old 74 sec. cor., which is a post set firmly in the ground, marked 14 S. on N. face; from which cross: a Nut Pine, 20 ins. dia, N. 10 1/4° E., 8 lks. dist, marked 14 S. B. V.

a Nut Pine, 18 ins. dia, S. 25° W., 45 lks. dist, marked 14 S. B. V.

54.40 Comes Wash. 70 lks. wide, course S. 10° E. and ascend.

80.00 To old cor. to secs. 1, 2, 35 and 36, which is a post, set firmly in the ground, marked T. 16 N., S. 36 on N. E.

R. 11 E., S. 1 on S. E.

S. 15 N., S. 2 on S. W. and S. 35 on N. W. faces with 1 notch on E. and 5 notches on W. edges, with a stone mound around post; from which cross:

a Yellow Pine, 14 ins. dia, N. 64 1/4° E., 17 1/2 lks. dist, marked T. 16 N., R. 11 E., S. 36 B. V.

a Yellow Pine, 30 ins. dia, S. 62° E., 38 1/2 lks. dist,

S. boundary T. 16 N., R. 11 E., S. 1 B. 1.

Chanis

marked T. 15 N., R. 11 E., S. 1 B. 1.

Land rolling & mountainous.

Soil 3rd rate.

Timber of Pine & Juniper.

Vegetation, bunchgrass.

West on a random line, bet. secs. 2nd & 3rd.

Var. $14^{\circ} 32'$ East.

Ascend gradually.

40.00 To old 14 sec. cor, which is a sandstone,
set firmly in the ground, marked 14 on the
face, with a stone mound along side.

53.00 Top of spur, bears S. 30° E. & descend.

80.00 To old cor. to secs. 2, 3, 34 & 35, which
is a sandstone, marked with 2 notches
on E. & 4 notches on W. edges, with
a stone mound along side.

Land mountainous.

Soil 3rd rate.

Timber of Pine & Juniper.

Vegetation, bunchgrass.

S. boundary of 16 N., R. 11 E., T. 9 S. R. 11 W.

Chains.

West over random line, bet. secs. 3rd & 34.C₁ Va. 14° 32' East.

Descend.

- 7.00 Cross low sag and ascend.
- 25.00 Top of spur, trans N. 20° W. ⁴th descend.
- 40.00 To old '14 sec. cor., which is a sandstone, set firmly in the ground, marked '14 on N. face, with a stone mound alongside.
- 80.00 To old cor. to secs. 3, 4, 33rd & 34, which is a post set firmly in the ground, marked C. 16 N., S. 34 on N. E.

R. 11 E., S. 3 on S. E.

T. 15 N., S. 4 on S. W. and S. 33 on N. W. faces, with 3 notches on E. ⁴th W. edges and a mound of stones around post.

Land mountains.

Soil 3rd rate.Timber of Pine ⁴th Juniper.

Vegetation, bunchgrasses.

S. boundary T. 16 N., R. 11 E., G. & S. R. M.

Chambers

West on a random line, bet. secs. 4th & 33.

Var. $14^{\circ} 32'$ East.

Descend.

40.00 To sec. 14 sec. cor., which is a sandstone set firmly in the ground, marked 14 on N. face, with a stone mound along side.

80.00 To old cor. to secs. 4, 5, 33rd & 33, which is a post set firmly in the ground, marked T. 16 N., S. 33 on N.E.

R. 11 E., S. 4 on S.E.

T. 15 N., S. 5 on S.W. and S. 32 on N.W. faces, with 2 notches on W. and 4 notches on E. edges, with a stone mound around post; from which pass:

A Yellow Pine, 6 ins. dia, N. 52° E., 38 lks. dist.,

marked T. 16 N., R. 11 E., S. 33 B. C.

A Yellow Pine, 8 ins. dia, S. 53° E., 34 lks. dist.,

marked T. 15 N., R. 11 E., S. 4 B. C.

A Yellow Pine, 7 ins. dia, S. 58° W., 8 lks. dist.,

marked T. 15 N., R. 11 E., S. 5 B. C.

S. Boundary T. 16 N., R. 11 E., S. 32 R. 9

Claims

N Yellow Pine, 20 vis. div, N. 56 $\frac{1}{4}$ ° W, 39 lks dist,
marked T. 16 N., R. 11 E., S. 32 R. 9

Sand rolling.

Soil 3rd rate.

Heavy timber of Yellow Pine and
undergrowth of same.

West on a random line, bet. secs. 5th & 32,
Var. 14° 32' East.

Over rolling land.

40.00 To old 14 sec. cor, which is a post
set firmly in the ground, marked
14 S. on N. face, with pits E. & W.
of post, 5 $\frac{1}{2}$ ft. dist, and a mound of
earth around post.

70.00 Top of Spur, bear N. E. & descend.

80.00 To old cor. to secs. 5, 6, 31st & 32, which
is a post, set firmly in the ground,
marked T. 16 N., S. 32 on N. E.
R. 11 E., S. 5 on S. E.
T. 16 N., S. 6 on S. W. and

S. boundary T. 16 N., R. 11 E., G. 4 W. S. R. 24

Chains

S. 31 on N.W. faces, with 5 notches
on E. & 1 notch on W. edges, with
a stone mound around post;

from which bears:

a Yellow Pine, 80 ins. dia., N. $10^{\circ} 14'$ E., 130 lks. dist.,
marked T. 16 N., R. 11 E., S. 31 B. C.

a Yellow Pine, 24 ins. dia., S. $40^{\circ} 10'$ E., 16 lks. dist.,
marked T. 15 N., R. 11 E., S. 5 B. C.

a Yellow Pine, 36 ins. dia., S. $51^{\circ} 14'$ W., 62 lks. dist.,
marked T. 15 N., R. 11 E., S. 6 B. C.

a Yellow Pine, 24 ins. dia., N. $85^{\circ} 14'$ W., 200 lks. dist.,
marked T. 16 N., R. 11 E., S. 31 B. C.

Land mountainous and rolling.

Soil 3rd rate.

Heavy timber of Yellow Pine and
undergrowth of same.

S. boundary T. 16 N., R. 11 E., E. & S. R. M.

Lohanis,

West on a random line, bet. sec. 6 & 8,
 Va. $14^{\circ} 32'$ East.

Over rolling land.

- 4.00 Cross low sag and ascend.
 30.00 Top of Spur, bear N.E. and descend.
 40.09 To old 14 sec. cor, which is a post
 set firmly in the ground, marked
 14 S. on N. face, with a stone mound
 around post.
 80.25 To old cor. to Tps. 15th and 16 N.,
 R. 10th and 11 E., previously described by me
 Land mountainous.

Soil 3rd rate.

Timber of Pine and Juniper.

Vegetation, bunchgrass.

I carefully examined the adjustments
 of my solar compass today,
 particularly the latitude and
 mirring apparatus and found
 them correct.

June 19th 1883.

BOOK 1389

The final Auths See Book No 19

U. S. Surveyor General's Office,

Tucson, Arizona, June 17, 1884,

^{Retracting}
 The foregoing Field Notes of the a portion of
 the Exterior lines of
 Townships 16 & 17 North Range 11 East
 Township 18 North, Range 9 East,
 and Township 22 North
 Range 8 East

Of the Gila and Salt River Base and Meridian, Arizona, execu-
 ted by O. S. Wheeler

Deputy Surveyor, under his contract of the 17th

day of July, 1882, having been

critically examined and the necessary corrections and explana-

tions made, the said Field Notes and the surveys they describe

are hereby approved

Royal Johnson
 Surveyor General.