

FIELD-NOTES

No. 1313

OF

The *Exterior* Lines of
 Township 22 North Range 8 East
 Township 16 and 17 North Range 11 East
 Range 15 North
 Range 9 East

Meridian, (Longitude)

4th *Stand* Par N^W (along) S Bdy, T17N, R12E

O. D. Whelan Deputy Surveyor,

under his contract of *July 17th* 1882

Survey commenced *May 8th* 1882

Survey completed *June 20th* 1882

BOOK 1313

Platted by *No. 1313*

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1313

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BOOK 1313

4th Stand Parallel North
along

South Bdy T. 17 N; R. 12 E.

W-E + N-T. 22 N; R 8 E ✓
 N 4 E - " 18 " " 9 " ✓
 N 4 E - " 17 " " 11 " ✓
 E - " 16 " " 11 " ✓

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1811

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BOOK 1313

4th Std. Par. N. - S. of secs 31 and 32, T. 17N R. 12E
pages 40 1/2 and 41

E. B. T. 22 N. R. 8 E. G. & S. R. M.

No. 1313

Chains.

Survey made with Burt's Patent Improved Solar
Compass, nearly new, and in first rate order. Made
by Otto Pennel of Cassel
Germany in 1881

From the Cor. to Tps. 21²² & 22 N. Rs. 8 & 9E,
previously described. 1 run,

North on a true line between sections 31³² and 36.

Va. 14° 07' East.

Descend.

24.00 Cross Wash, 40 lks. wide, Course S. 70° E. and ascend.

40.00 Set a post 3 ft. long, 3 ins. diam. with marked stone.
12 ins. in the ground, for $\frac{1}{2}$ Sec. Cor., marked $\frac{1}{2}$ S. on
W. face, dug pits, 18 x 18 x 12 ins., N. and S. of
post 5 $\frac{1}{2}$ ft. dist., and raised a mound of earth 1 $\frac{1}{2}$ ft.
high, 3 $\frac{1}{2}$ ft. base around post. from which

A Yellow Pine 20 ins. diam. bears S. 65° W. 26 lks. dist.
marked $\frac{1}{2}$ S. B. T.

No other tree within limits.

70.00 Top of Spur, bears N. 20° W. $\frac{1}{2}$ S. 20° E. and descend.

80.00 Set a post 4 ft. long, 4 ins. square, with marked stone.
12 ins. in the ground, for Cor. to Secs. 25, 30, 31³² & 36,
marked T. 22 N. S. 30, on N. E., R. 9E, S. 31
on S. E. S. 36 on S. W. and S. 25 on N. W. faces,
^

E. B. T. 22 N. R. 8 E. G. & S. R. M.

Chains.

with 1 notch on S. and 5 notches on ~~N.~~ edges;
dug pits, 18 x 18 x 12 ins. in each Sec., 5½ ft. dist.,
and raised a mound of earth 2 ft. high, 4½ ft. base
around post.

from which.

A Yellow Pine 30 ins. diam. bears $N. 60^{\circ} E.$, 70 lks. dist.
marked T. 22 N., R. 8 E., S., 30 B. T.

A Yellow Pine 24 ins. diam. bears $S. 40^{\circ} W.$, 80 lks. dist.
marked T. 22 N., R. 8 E., S., 36 B. T.

A Yellow Pine 12 ins. diam. bears $N. 25^{\circ} W.$, 140 lks. dist.
marked T. 22 N., R. 8 E., S., 25 B. T.

No other tree within limits.

Land mountainous

Soil 3rd rate,

Heavy timber of Pine,

Undergrowth of oaks and Juniper.

Chains.

North on a true line between sections 25^{and} 30.Va. 14^{0.07}' East.

Descend.

28.00 Leave Timber, Bears. E. ²/₃ W.

40.00 Set a post 3 ft. long, 3 ins. diam. with marked stone.
12 ins. in the ground, for $\frac{1}{4}$ Sec. Cor., marked $\frac{1}{4}$ S. on
W. face, dug pits, 18 x 18 x 12 ins., N. and S. of
post $5\frac{1}{2}$ ft. dist., and raised a mound of earth $1\frac{1}{2}$ ft.
high, $3\frac{1}{2}$ ft. base around post.

80.00 Set a post 4 ft. long, 4 ins. square, with marked stone.
12 ins. in the ground, for Cor. to Secs. 19, 24, 25^{and} 30,
marked T. 22 N. S. 19, on N. E., R. 9 E, S. 30
on S. E. ^{R. 8 E} S. 25 on S. W and S. 24 on N. W. faces,
with 2 notches on S. and 4 notches on N. edges;
dug pits, 18 x 18 x 12 ins. in each Sec., $5\frac{1}{2}$ ft. dist.,
and raised a mound of earth 2 ft. high, $4\frac{1}{2}$ ft. base
around post.

Land mountainous

Soil 3rd rate.Timber of Pine ^{and} Juniper.

Vegetation, bunchgrass.

Chains.

North on a true line between sections 19 ^Q 24.

Va. 14° 37' East.

Over rolling land.

40.00

Set a post 3 ft. long, 3 ins. diam. with marked stone. 12 ins. in the ground, for 1/4 Sec. Cor., marked 1/4 S. on W. face, dug pits, 18 x 18 x 12 ins., N. and S. of post 5 1/2 ft. dist., and raised a mound of earth 1 1/2 ft. high, 3 1/2 ft. base around post.

80.00

Set a post 4 ft. long, 4 ins. square, with marked stone. 12 ins. in the ground, for Cor. to Secs. 13, 15, 19 ^Q 24, marked T. 22 N. S. 18, on N. E., R. 76, S. 19 on S. E. ^{R. 76} S. 24 on S. W. and S. 13 on N. W. faces; with 3 notches on S. and 3 notches on N. edges; dug pits, 18 x 18 x 12 ins. in each Sec., 5 1/2 ft. dist., and raised a mound of earth 2 ft. high, 4 1/2 ft. base around post.

Land rolling.

Soil *J.M.* rate

Vegetation, bunchgrass.

Chains.

North on a true line between sections 13 ^{and} 18.

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

Over rolling land.

10.00 Leave Valley, bears $N. 70^{\circ} E.$ ^{and} $S. 70^{\circ} W.$ and ascend.

and
Enter Timber, Bears. $N. 70^{\circ} E.$ ^{and} $S. 70^{\circ} W.$

22.00 Top of round knoll, and descend.

40.00 Set a post 3 ft. long, 3 ins. diam. with marked stone.

12 ins. in the ground, for $\frac{1}{4}$ Sec. Cor., marked $\frac{1}{4}$ S. on

W. face, dug pits, 18 x 18 x 12 ins., N. and S. of post $5\frac{1}{2}$ ft. dist., and raised a mound of earth $1\frac{1}{2}$ ft.

high, $3\frac{1}{2}$ ft. base around post. from which

a Yellow Pine 24 ins. diam. bears $S. 60^{\circ} W.$ 43 lks. dist.

marked $\frac{1}{4}$ S. B. T.

No other tree within limits.

50.00 Cross Ravine, Course. $S. 60^{\circ} E.$ and ascend.

80.00 Set a sand stone $20 \times 10 \times 4$ ins. 15 ins. in

the ground for Cor. to Secs. 7, 12, 13 ^{and} 18, marked

with 4 notches on S. and 2 notches on N. edges and

raised a mound of stone. alongside Pits impracticable.

from which

a Yellow Pine 12 ins. diam. bears $S. 35^{\circ} E.$ 3 lks. dist.

marked T. 22 N. R. 9 E., S., 19 B. T.

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

Chains.

A Yellow Pine 40 ins. diam. bears S. 49 $\frac{1}{2}$ ° W, 117 lks. dist.
marked T. 22 N, R. 8 E, S., 13 B. T.

A Yellow Pine 32 ins. diam. bears N. 17 $\frac{1}{2}$ ° W, 150 lks. dist.
marked T. 22 N, R. 8 E, S., 12 B. T.

No other tree within limits. Corner set
on Top of Spur, bears N. 30° E. and S. 30° W.

Land mountainous

Soil *pr* rate,

Heavy timber of Pine.

Undergrowth of same *as* Juniper.

Chains.

North on a true line between sections 7th and 12th.
Va. $14^{\circ} 57'$ East.

Descend:

40.00 Set a post 3 ft. long, 3 ins. diam. 24 ins. in the ground,
for $\frac{1}{2}$ Sec. Cor., marked $\frac{1}{2}$ S. on W. face; from which
a Yellow Pine 14 ins. diam. bears $N. 19^{\circ} 10' W.$, 32 lks. dist.
marked $\frac{1}{2}$ S. B. T.

A Yellow Pine 8 ins. diam. bears $N. 24^{\circ} E.$, 50 lks. dist.
marked $\frac{1}{2}$ S. B. T.

50.00 Cross Ravine, Course. $S. 45^{\circ} W.$ and ascend.

80.00 Set a post 4 ft. long, 4 ins. square, with marked stone.
12 ins. in the ground, for Cor. to Secs. 1, 6, 7th and 12th,
marked T. 22nd N. S. 6, on N. E., R. 9th E., S. 7
^{B. 16.}
on S. E. S. 12 on S. W. and S. 1 on N. W. faces,
with 5 notch 10 on S. and 1 notch on N. edges;
dug pits, 18 x 18 x 12 ins. in each Sec., $5\frac{1}{2}$ ft. dist.,
and raised a mound of earth 2 ft. high, $4\frac{1}{2}$ ft. base
around post.
from which

a Yellow Pine 40 ins. diam. bears $S. 59^{\circ} 10' E.$, 66 lks. dist.
marked T. 22nd N. R. 9th E., S. 7 B. T.

A Yellow Pine 30 ins. diam. bears $N. 19^{\circ} 14' W.$, 15 lks. dist.

E. B. T. 22 N. R. 8 E. G. & S. R. M.

chains.

marked T. 22N, R. 8E, S., 1 B. T.

A Yellow Pine 14 ins. diam. bears $N. 38^{\circ}W$, 114 lks. dist.

marked T. 22N, R. 8E, S., 1 B. T.

Land mountainous

Soil 3rd rate,

Heavy timber of Pine and Juniper,

Undergrowth of same.

North on a true line between sections 1 and 6.

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

Ascend.

40.00 Set a post 3 ft. long, 3 ins. diam. 24 ins. in the ground,
for $\frac{1}{2}$ Sec. Cor., marked $\frac{1}{2}$ S. on W. face; from whichA Yellow Pine 24 ins. diam. bears $N. 30^{\circ}W$, 29 lks. dist.marked $\frac{1}{2}$ S. B. T.A Yellow Pine 12 ins. diam. bears $N. 25^{\circ}E$, 120 lks. dist.marked $\frac{1}{2}$ S. B. T.80.00 Set a post, $4\frac{1}{2}$ ft. long, 4 ins. square, 24 ins. in the
ground, for Cor. to Tps. 22 and 23N R's 8 and
9E. marked T. 23N. S. 31 on N. E. R. 9E. S.
6 on S. E. T. 22N. S. 1 on S. W. and R. 8E. S.
36 on N. W. faces, with 6 notches on each edge, from
which

ains.

A Yellow Pine 20 ins. diam. bears N. 29¹/₂° E, 58 lks. dist.
marked T. 23N, R. 9E, S., 31 B. T.

A Yellow Pine 24 ins. diam. bears S. 20° E, 102 lks. dist.
marked T. 22N, R. 9E, S., 6 B. T.

A Yellow Pine 40 ins. diam. bears S. 79¹/₂° W, 16 lks. dist.
marked T. 22N, R. 8E, S., 1 B. T.

A Yellow Pine 18 ins. diam. bears N. 28° W, 122 lks. dist.
marked T. 23N, R. 8E, S., 36 B. T.

Land mountainous

Soil 3rd rate,

Heavy timber of Pine.

Undergrowth of same and Juniper.

I carefully examined the adjustments of my solar
compass to-day, particularly the latitude and revers-
ing apparatus, and found them correct.

May 8th 1883.

W. B. T. 22 N. R. 8 E. G. & S. R. M.

Chains.

From the Cor. to Tps. 21^{and} 22 N. Rs. 7 & 8 E.,
previously described. 1 run,

North on a true line between sections 31^{and} 36.

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

Ascend.

40.00 Set a sand stone $20 \times 14 \times 5$ ins., 15
ins. in the ground, for $\frac{1}{4}$ Sec. Cor., marked $\frac{1}{4}$ on W.
face, and raised a mound of stone. alongside. Pits
impracticable. from which
a Yellow Pine 12 ins. diam. bears $S. 20^{\circ} E.$, 20 lks. dist.
marked $\frac{1}{4}$ S. B. T.

a Yellow Pine 10 ins. diam. bears $N. 71^{\circ} W.$, 34 lks. dist.
marked $\frac{1}{4}$ S. B. T.

44.00 Top of Mountain ^{Grass} $N. 20^{\circ} E.$ ^{and} $S. 20^{\circ} W.$,
and descend.

80.00 Set a sand stone $8 \times 12 \times 6$ ins. 12 ins. in
the ground for Cor. to Secs. 25, 30, 31^{and} 36, marked
with 1 notch on S. and 5 notches on N edges and
raised a mound of stone. alongside. Pits impracticable.
from which

a Yellow Pine 12 ins. diam. bears $N. 32^{\circ} W.$, 27 lks. dist.
marked T. 22 N. R. 7 E., S., 25 B. T.

a Yellow Pine 30 ins. diam. bears $S. 27^{\circ} E.$, 33 lks. dist.

W. B. T. 22 N. R. 8 E. G. & S. R. M.

Chains.

marked T. 22N, R. 8E, S., 31 B. T.

A Yellow Pine 30 ins. diam. bears $N. 44^{\circ} 12' W$, 43 lks. dist.

marked T. 23N, R. 7E, S., 36 B. T.

No other tree within limits.

Land mountainous

Soil 3rd rate,

Heavy timber of Pine and Oak.

Undergrowth of same.

North on a true line between sections 25 and 30.

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

Descend.

40.00 Set a post 3 ft. long, 3 ins. diam. with marked stone.
12 ins. in the ground, for $\frac{1}{4}$ Sec. Cor., marked $\frac{1}{4}$ S. on
N. face and raised a mound of stone $1\frac{1}{2}$ ft. high,
 $3\frac{1}{2}$ ft. base around post. Pits impracticable. from which
A Yellow Pine 28 ins. diam. bears $N. 28^{\circ} 45' W$, 88 lks. dist.
marked $\frac{1}{4}$ S. B. T.

A Yellow Pine 14 ins. diam. bears $N. 36^{\circ} E$, 42 lks. dist.
marked $\frac{1}{4}$ S. B. T.

77.00 Cross Ravine, Course. E. and ascend.

80.00 Set a post 4 ft. long, 4 ins. square, with marked stone.
12 ins. in the ground, for Cor. to Secs. 19, 24, 25 and 30.

12
 W. B. T. 22 N. R. 8 E. G. & S. R. M.

Chains;

marked T. 22 N. S. 19, or N. E., R. 8 E, S. 30
 on S. E., S. 25 on S. W., and S. 24 on N. W. faces,
 with 2 notches on S. and 4 notches on ~~W~~ edges;
 and raised a mound of stone 2 ft. high, 4½ ft. base
 around post. Pits impracticable.

from which

A Yellow Pine 14 ins. diam. bears 429½, 66 lbs. dist.
 marked T. 22 N. R. 7 E, S., 24 B. T.

A Yellow Pine 26 ins. diam. bears 442½, 91 lbs. dist.
 marked T. 22 N. R. 8 E, S., 19 B. T.

A Yellow Pine 15 ins. diam. bears 427½, 77 lbs. dist.
 marked T. 22 N. R. 8 E, S., 30 B. T.

No other tree within limits.

Land mountainous

Soil ~~30~~ rate,

Heavy timber of Pine.

Undergrowth of ~~samel~~ ^{and} Juniper.

W. B. T. 22 N. R. 8 E. G. & S. R. M.

Chains.

North on a true line between sections 19th and 24th,
Va. $14^{\circ} 37'$ East.

Ascend.

30.00 Top of Mountain, bear E. or W. and descend.

40.00 Set a post 3 ft. long, 3 ins. diam. with marked stone,
12 ins. in the ground, for $\frac{1}{4}$ Sec. Cor., marked $\frac{1}{4}$ S. on
W. face, and raised a mound of stone $1\frac{1}{2}$ ft. high,
 $3\frac{1}{2}$ ft. base around post. Pits impracticable.

from which

A Yellow Pine 28 ins. diam. bears N. 60° E., 186 lbs. dist.
marked $\frac{1}{4}$ S. B. T.

No other tree within limits.

68.00 Cross Ravine, Course. E. and ascend.

78.00 Cross Road, bears, N. 80° W. and N. 80° E.

80.00 Set a post 4 ft. long, 4 ins. square, with marked stone,
12 ins. in the ground, for Cor. to Secs. 13, 18, 19th and 24th,
marked T. 22 N. S. 18, on N. E., R. 8 E., S. 19
on S. E. S. 24 on S. W. and S. 13 on N. W. faces,
with 3 notch ∞ on S. and 3 notch ∞ on W. edges;
dug pits, 18 x 18 x 12 ins. in each Sec., $5\frac{1}{2}$ ft. dist.,
and raised a mound of earth 2 ft. high, $4\frac{1}{2}$ ft. base
around post.

from which

W. B. T. 22 N. R. 8 E. G. & S. R. M.

Chains.

A Yellow Pine 24 ins. diam. bears $S. 44^{\circ} 40' W.$, 25 lks. dist.
marked T. 22 N. R. 7 E, S., 24 B. T.

A Yellow Pine 24 ins. diam. bears $N. 30^{\circ} W.$, 61 lks. dist.
marked T. 22 N. R. 7 E, S., 13 B. T.

A Yellow Pine 12 ins. diam. bears $N. 34^{\circ} 10' E.$, 66 lks. dist.
marked T. 22 N. R. 8 E, S., 18 B. T.

No other tree within limits.

Land mountainous

Soil 3rd rate,

Heavy timber of Pine.

Undergrowth of same ^{and} Juniper.

North on a true line between sections 13 ^{and} 18.

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

Ascend.

40.00 Set a sand stone $80 \times 24 \times 10$ ins., 22
ins. in the ground, for $\frac{1}{4}$ Sec. Cor., marked $\frac{1}{4}$ on W.
face, and raised a mound of stone alongside. Pits
impracticable. from which

A Yellow Pine 10 ins. diam. bears $S. 45^{\circ} E.$, 52 lks. dist.
marked $\frac{1}{4}$ S. B. T.

A Yellow Pine 16 ins. diam. bears $N. 45^{\circ} E.$, 58 lks. dist.
marked $\frac{1}{4}$ S. B. T.

W. B. T. 221 N. R. 8 E. G. & S. R. M.

Chains.

80.00

Set a sand stone $30 \times 24 \times 2$ ins. 22 ins. in the ground for Cor. to Secs. 7, 12, 13 ^{and 14}, marked with 4 notches on S. and 2 notches on ~~N~~ edges and raised a mound of stone. alongside. Pits impracticable. from which

1 Yellow Pine 20 ins. diam. bears $N. 73^{\circ} W.$, 77 lks. dist. marked T. 22 ~~N~~, R. 7 ~~E~~, S., 13 B. T.

1 Yellow Pine 24 ins. diam. bears $N. 55^{\circ} W.$, 76 lks. dist. marked T. 22 ~~N~~, R. 7 ~~E~~, S., 12 B. T.

1 Yellow Pine 25 ins. diam. bears $N. 60^{\circ} E.$, 149 lks. dist. marked T. 22 ~~N~~, R. 8 ~~E~~, S., 7 B. T.

No other tree within limits.

Land mountainous

Soil 3rd rate,

Heavy timber of Pine.

Undergrowth of same ^{and} Juniper

Chains.

North on a true line between sections 7 ^{and} 12.
 Va. 14° 37' East.

Ascend.

40.00 Set a post 3 ft. long, 3 ins. diam. 24 ins. in the ground,
 for $\frac{1}{4}$ Sec. Cor., marked $\frac{1}{4}$ S. on W. face; from which
 A Yellow Pine 10 ins. diam. bears N. 87° W, 40 lks. dist.
 marked $\frac{1}{4}$ S. B. T.

A Yellow Pine 20 ins. diam. bears N. 88 $\frac{1}{2}$ ° E, 11 lks. dist.
 marked $\frac{1}{4}$ S. B. T.

80.00 Set a post 4 ft. long, 4 ins. square, 24 ins. in the ground,
 for Cor. to Secs. 1, 6, 7 ^{and} 12, marked T. 22 N.
 S. 6 on N. E., R. 8 E, S. 7 on S. E., S. 12 on
 S. W. and S. 1 on N. W. faces, with 5 notches on
 S. and 1 notch on W edges; from which
 A Yellow Pine 20 ins. diam. bears N. 65° E, 119 lks. dist.
 marked T. 22 N. R. 8 E, S. 6 B. T.

A Yellow Pine 30 ins. diam. bears N. 60° E, 111 lks. dist.
 marked T. 22 N. R. 8 E, S. 7 B. T.

A Yellow Pine 20 ins. diam. bears N. 80° W, 45 lks. dist.
 marked T. 22 N. R. 7 E, S. 12 B. T.

A Yellow Pine 20 ins. diam. bears N. 59 $\frac{1}{2}$ ° W, 40 lks. dist.

W. B. T. 22 N. R. 8 E. G. & S. R. M.

Chains.

marked T. 224 R. 7 E, S., 1 B. T.

Land mountainous

Soil 3rd rate,

Heavy timber of Pine,

Undergrowth of Oamel and Juniper.

North on a true line between sections 1 and 6.

Va. 14° 37' East.

Ascend.

40.00 Set a post 3 ft. long, 3 ins. diam. 24 ins. in the ground, for 1/2 Sec. Cor., marked 1/2 S. on W. face; from which

A Yellow Pine 30 ins. diam. bears S. 40° W, 71 lks. dist. marked 1/2 S. B. T.

A Yellow Pine 15 ins. diam. bears N. 34 1/4° W, 71 lks. dist. marked 1/2 S. B. T.

80.00 Set a post, 4 1/2 ft. long, 4 ins. square, 24 ins. in the ground, for Cor. to Tps. 22 and 23 N, R's 7 and 8 E. marked T. 23 N. S. 31 on N. E. R. 8 E. S. 6 on S. E. T. 22 N. S. 1 on S. W. and R. 7 E. S. 36 on N. W. faces, with 6 notches on each edge, from which

78
 W. B. T. 22 N. R. 8 E. G. & S. R. M.

Chains.

A Yellow Pine 15 ins. diam. bears $N. 29\frac{1}{2}^{\circ} E$, 49 lks. dist.
 marked T. 22 N. R. 8 E, S., 31 B. T.

A Yellow Pine 10 ins. diam. bears $S. 70^{\circ} E$, 84 lks. dist.
 marked T. 22 N. R. 8 E, S., 6 B. T.

A Yellow Pine 12 ins. diam. bears $S. 79\frac{1}{2}^{\circ} W$, 106 lks. dist.
 marked T. 22 N. R. 7 E, S., 1 B. T.

A Yellow Pine 20 ins. diam. bears $N. 38\frac{1}{4}^{\circ} W$, 70 lks. dist.
 marked T. 23 N. R. 7 E, S., 36 B. T.

Land mountainous

Soil 3rd rate,

Heavy timber of Pine and Juniper.

Undergrowth of same.

I carefully examined the adjustments of my solar
 compass to-day, particularly the latitude and revers-
 ing apparatus, and found them correct.

May 9th 1883.

M. A. T. 22 N. R. 8 E. G. & S. R. M.

ains.

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

I made a change of 5 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 further tested instrument by reversing.

I took the latitude and found it to be $35^{\circ}18'N$.

From the Cor. to Tps. 22 & 23 N. Rs. 7 & 8^E,
previously set by me,

I run East. on a random line on N. B. of T^p.

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

I set temporary corners at every half mile, and at 5 miles
79.00 chs. I arrive at a point 84 lks. North of Cor. to Tps.

22 and 23 N. Rs. 8 and 9^E,

previously set by me, From which corner I run.

$N.89^{\circ}54'W$. on a true line between sections 1 and 36,

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

Descend.

40.00 Set a post 3 ft. long, 3 ins. diam. 24 ins. in the ground,
for $\frac{1}{2}$ Sec. Cor., marked $\frac{1}{2}$ S. on N. face; from which

A Yellow Pine 20 ins. diam. bears $N.47\frac{1}{2}^{\circ}E$, 73 lks. dist.

N. B. T. 22 N. R. 8 E. G. & S. R. M.

(Chains.

marked $\frac{1}{2}$ S. B. T.

A Yellow Pine 15 ins. diam. bears $N. 37^{\circ} W.$, 120 lks. dist.

marked $\frac{1}{2}$ S. B. T.

80.00

Set a post 4 ft. long, 4 ins. square, with marked stone,

12 ins. in the ground, for Cor. to Secs. 1, 2, ~~55~~ ⁵⁶

marked T. 23 N. S. 36, on N. E., R. 8 E, S. 1

^{Q. 22 N.} on S. E. S. 2 on S. W. and S. 35 on N. W. faces,

with 5 notch ~~20~~ on W and 1 notch on E. edges;

dug pits, 18 x 18 x 12 ins. in each Sec., $5\frac{1}{2}$ ft. dist.,

and raised a mound of earth 2 ft. high, $4\frac{1}{2}$ ft. base
around post.

from which

A Yellow Pine 40 ins. diam. bears $N. 20^{\circ} E.$, 133 lks. dist.

marked T. 23 N. R. 8 E, S. 36 B. T.

A Yellow Pine 38 ins. diam. bears $N. 69^{\circ} W.$, 123 lks. dist.

marked T. 23 N. R. 8 E, S. 35 B. T.

A Yellow Pine 18 ins. diam. bears $N. 55^{\circ} W.$, 119 lks. dist.

marked T. 22 N. R. 8 E, S. 2 B. T.

No other tree within limits.

Land mountainous

Soil 3rd rate,

Heavy timber of Yellow Pine.

Undergrowth of same 2nd jumper.

M. B. T. 22 N. R. 8 E. G. & S. R. M.

Chains.

N. $89^{\circ} 54' W.$ on a true line between sections 2nd & 3rd.

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

Descend.

40.00 Set a post 3 ft. long, 3 ins. diam. 24 ins. in the ground, for $\frac{1}{2}$ Sec. Cor., marked $\frac{1}{2}$ S. on N. face; from which
A Yellow Pine 22 ins. diam. bears S. $50^{\circ} W.$, 143 lks. dist. marked $\frac{1}{2}$ S. B. T.

A Yellow Pine 15 ins. diam. bears N. $38^{\circ} W.$, 154 lks. dist. marked $\frac{1}{2}$ S. B. T.

80.00 Set a post 4 ft. long, 4 ins. square, with marked stone. 12 ins. in the ground, for Cor. to Secs. 2, 3, 34th & 35th, marked T. 23rd M. S. 35, on N. E., R. 8th E., S. 2nd on S. E. S. ^{N. 22nd M.} 3 on S. W. and S. 34 on N. W. faces, with 4 notches on W. and 2 notches on E. edges; dug pits, 18 x 18 x 12 ins. in each Sec., $5\frac{1}{2}$ ft. dist., and raised a mound of earth 2 ft. high, $4\frac{1}{2}$ ft. base around post.

from which

A Yellow Pine 18 ins. diam. bears S. $17\frac{1}{2}^{\circ} E.$, 158 lks. dist. marked T. 23rd M. R. 8th E., S., 2 B. T.

A Yellow Pine 40 ins. diam. bears N. $59\frac{1}{2}^{\circ} W.$, 162 lks. dist. marked T. 23rd M. R. 8th E., S., 34 B. T.

Ch. Chains.

No other tree within limits.

Land mountainous

Soil 3rd rate,

Heavy timber of Pine,

Undergrowth of same ^{as} Jumper.

N. 89° 54' W. on a true line between sections 3rd and 34.

Va. 14° 37' East.

Over mountainous land

40.00 Set a post 3 ft. long, 3 ins. diam. 24 ins. in the ground,
for $\frac{1}{4}$ Sec. Cor., marked $\frac{1}{4}$ S. on N. face; from which

a Yellow Pine 20 ins. diam. bears N. 10° E, 30 lks. dist.
marked $\frac{1}{4}$ S. B. T.

a Yellow Pine 22 ins. diam. bears $N. 7\frac{1}{4}^{\circ} W.$, 44 lks. dist.
marked $\frac{1}{4}$ S. B. T.

80.00 Set a post 4 ft. long, 4 ins. square, with marked stone.
12 ins. in the ground, for Cor. to Secs. 3, 4, 3rd and 34,
marked T. 23 N. S. 34, on N. E., R. 8 E, S. 3
on S. E. S. 4 on S. W. and S. 3 on N. W. faces,
with 3 notches on W. and 3 notches on E. edges;
dug pits, 18 x 18 x 12 ins. in each Sec., 5 $\frac{1}{2}$ ft. dist.,
and raised a mound of earth 2 ft. high, 4 $\frac{1}{2}$ ft. base
around post.

T. N. R. E. G. & S. R. M.

Chains.

from which

1 Yellow Pine 18 ins. diam. bears N. 69¹/₂° E, 109 lbs. dist.

marked T. 234, R. 8 E, S., 34 B. T.

1 Yellow Pine 20 ins. diam. bears S. 50° W, 79 lbs. dist.

marked T. 224, R. 8 E, S., 4 B. T.

1 Yellow Pine 20 ins. diam. bears N. 45° W, 69 lbs. dist.

marked T. 234, R. 8 E, S., 33 B. T.

No other tree within limits.

Land mountainous

Soil 3rd rate,

Heavy timber of Pine,

Undergrowth of same as Jumper.

2 24
BOOK 1915
N. B. T. 32 N. R. 8 E. G. & S. R. M.

Chains.

N. $89^{\circ} 54' W$, on a true line between sections 4 and 33,

Va. 14037 East

Over mountainous land

40.00 Set a post 3 ft. long, 3 ins. diam. with marked stone.
12 ins. in the ground, for $\frac{1}{2}$ Sec. Cor., marked $\frac{1}{2}$ S. on
N. face, dug pits, 18 x 18 x 12 ins., E. and W. of
post $5\frac{1}{2}$ ft. dist., and raised a mound of earth $1\frac{1}{2}$ ft.
high, $3\frac{1}{2}$ ft. base around post. from which

A Yellow Pine 14 ins. diam. bears N. $30^{\circ} 25'$, 188 lks. dist.
marked $\frac{1}{2}$ S. B. T.

No other tree within limits.

80.00 Set a sand stone 18 x 11 x 4 ins. 12 ins. in
the ground for Cor. to Secs. 4, 5, 32 and 33, marked
with 2 notches on W and 4 notches on E. edges and
raised a mound of stone. alongside Pits impracticable.
from which

A Yellow Pine 24 ins. diam. bears N. $44^{\circ} 10' E$, 72 lks. dist.
marked T. 23 N. R. 8 E, S., 33 B. T.

A Yellow Pine 18 ins. diam. bears S. $29^{\circ} 14' E$, 140 lks. dist.
marked T. 22 N. R. 8 E, S., 4 B. T.

A Yellow Pine 36 ins. diam. bears S. $75^{\circ} 20'$, 13 lks. dist.
marked T. 32 N. R. 8 E, S., 5 B. T.

Chains.

No other tree within limits.

Land mountainous

Soil *3rd* rate,

Heavy timber of Pine.

Undergrowth of *saw* and *Juniper*.

N. 87° 54' W. on a true line between sections 5 and 32.

Va. 14° 37' East.

Ascend.

40.00

Set a post 3 ft. long, 3 ins. diam. 24 ins. in the ground, for $\frac{1}{2}$ Sec. Cor., marked $\frac{1}{2}$ S. on W. face; from which

a Yellow Pine 40 ins. diam. bears N. 49° 14' E, 39 lks. dist. marked $\frac{1}{2}$ S. B. T.

a Yellow Pine 22 ins. diam. bears S. 28° 1/2' W, 96 lks. dist. marked $\frac{1}{2}$ S. B. T.

80.00

Set a sand stone 20x11 x 6 ins. 15 ins. in the ground for Cor. to Secs. 5, 6, 31 and 32, marked with 1 notch on W and 5 notches on E. edges and raised a mound of stone. alongside. Pits impracticable. from which

a Yellow Pine 20 ins. diam. bears N. 88° E, 50 lks. dist. marked T. 234, R. 8 E, S., 32 B. T.

N.B. T. 22 N. R. 8 E. G. & S. R. M.

Chains.

A Yellow Pine 40 ins. diam. bears $S. 57^{\circ} E$, 119 lks. dist.
marked T. 22 N. R. 8 E, S., 5 B. T.

A Yellow Pine 24 ins. diam. bears $S. 38^{\circ} 14' W$, 130 lks. dist.
marked T. 22 N. R. 8 E, S., 6 B. T.

No other tree within limits.

Land mountainous

Soil 3rd rate,

Heavy timber of Pine.

Undergrowth of saw gum and juniper.

N. 89° 54' W. on a true line between sections 6 and 31,

Va. 14° 37' East.

Ascend.

40.00 Set a sand stone 16 x 10 x 5 ins., 11
ins. in the ground, for $\frac{1}{2}$ Sec. Cor., marked $\frac{1}{2}$ on N.
face, and raised a mound of stone. alongside. Pits
impracticable.

from which

A Yellow Pine 24 ins. diam. bears $S. 9^{\circ} 14' E$, 9 lks. dist.
marked $\frac{1}{2}$ S. B. T.

A Yellow Pine 12 ins. diam. bears $N. 70^{\circ} W$, 17 lks. dist.
marked $\frac{1}{2}$ S. B. T.

N.B. T. 22 N. R. 8 E. G. & S. R. M.

Chains,

79.00 The Cor. to Tps. 22nd & 23rd N. Rs. 7 & 8 E.
 Land mountainous
 Soil 3rd rate,
 Heavy timber of Pine.
 Undergrowth of same and Juniper.
 May 10th 1883.

E. B. T. 18 N. R. 9 E. G. & S. R. M.

Chains.

From the Cor. to Tps. 17^{and} 18 N. Rs. 9 & 10 E,
previously described. I run,

North on a true line between sections 31^{and} 36,

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

Ascend.

40.00 Set a post 3 ft. long, 3 ins. diam. with marked stone.
12 ins. in the ground, for $\frac{1}{2}$ Sec. Cor., marked $\frac{1}{2}$ S. on
W. face, and raised a mound of stone $1\frac{1}{2}$ ft. high,
 $3\frac{1}{2}$ ft. base around post. Pits impracticable.

from which

1 Yellow Pine 24 ins. diam. bears $N. 20^{\circ}W$, 118 lks. dist.
marked $\frac{1}{2}$ S. B. T.

No other tree within limits.

80.00 Set a sand stone $18 \times 12 \times 5$ ins. 12 ins. in
the ground for Cor. to Secs. 25, 30, 31^{and} 36, marked
with 1 notch on S. and 5 notches on W. edges and
raised a mound of stone. alongside, Pits impracticable.

from which

1 Yellow Pine 30 ins. diam. bears $N. 21^{\circ}W$, 196 lks. dist.
marked T. 18 N. R. 9 E, S., 25 B. T.

1 Yellow Pine 36 ins. diam. bears $S. 15^{\circ}W$, 279 lks. dist.
marked T. 18 N. R. 9 E, S., 36 B. T.

E. B. T. 18 N. R. 9 E. G. & S. R. M.

Chains.

No other tree within limits.

Land mountainous

Soil *3rd* rate,

Heavy timber of Pine.

Undergrowth of *Sassa* and *Juniper*.

North on a true line between sections 25 and 30.

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

Ascend.

37.00 Top of Ridge, bears N. E. and S. W. and descend.

40.00 Set a Sand stone $17 \times 9 \times 5$ ins., 11
ins. in the ground, for $\frac{1}{4}$ Sec. Cor., marked $\frac{1}{4}$ on W.
face, and raised a mound of stone alongside. Pits
impracticable.

from which

1 Yellow Pine 20 ins. diam. bears $S. 45^{\circ} E$, 63 lks. dist.
marked $\frac{1}{4}$ S. B. T.

1 Yellow Pine 20 ins. diam. bears $N. 15^{\circ} W$, 55 lks. dist.
marked $\frac{1}{4}$ S. B. T.

in low Sag and ascend.



50.00 Top of Ridge, bears N. W. and S. E. and descend.

78.80 Cross Road, bears $N. 60^{\circ} W$.

E. B. T. 18 N. R. 9 E. G. & S. R. M.

Chains.

80 00

Set a post 4 ft. long, 4 ins. square, with marked stone,
12 ins. in the ground, for Cor. to Secs. 19, 24, 25 & 30,
marked T. 18 N. S. 19, on N. E., R. 10 E., S. 30
^{R. 9 E.}
on S. E., S. 25 on S. W, and S. 24 on N. W. face,
with 2 notch  on S. and 4 notch  on N. edges;
and raised a mound of stone 2 ft. high, 4 1/2 ft. base
around post. Pits impracticable. from which

A Yellow Pine 12 ins. diam. bears $\text{of } 40^{\circ} \text{E}$, 200 lks. dist.

marked T. 18 N. R. 10 E., S., 30 B. T.

No other tree within limits.

Cor. set in low day.

Land mountainous

Soil 3rd rate,

Heavy timber of Pine.

Undergrowth of same and Juniper.

E. B. T. 18 N. R. 9 E. G. & S. R. M.

Chains.

North on a true line between sections 19 ^{and} 24.Va. $14^{\circ}45'$ East.

Ascend.

40.00 Set a post 3 ft. long, 3 ins. diam. 24 ins. in the ground,
for $\frac{1}{2}$ Sec. Cor., marked $\frac{1}{2}$ S. on W. face; from whichA Yellow Pine 20 ins. diam. bears $N.40^{\circ}E$, 63 lks. dist.
marked $\frac{1}{2}$ S. B. T.A Yellow Pine 10 ins. diam. bears $N.27^{\circ}W$, 136 lks. dist.
marked $\frac{1}{2}$ S. B. T.80.00 Set a post 4 ft. long, 4 ins. square, with marked stone.
12 ins. in the ground, for Cor. to Secs. 13, 15, 19 & 24,
marked T. 184. S. 18, on N. E., R. 10 E, S. 19
^{R. 9 E.}
on S. E., S. 24 on S. W, and S. 13 on N. W. faces,
with 3 notches on S. and 3 notches on Edges;
and raised a mound of stone 2 ft. high, $4\frac{1}{2}$ ft. base
around post. Pits impracticable. from whichA Yellow Pine 36 ins. diam. bears $N.35^{\circ}E$, 210 lks. dist.
marked T. 184. R. 10 E, S., 18 B. T.A Yellow Pine 14 ins. diam. bears $S.45^{\circ}E$, 115 lks. dist.
marked T. 184. R. 10 E, S., 19 B. T.A Yellow Pine 9 ins. diam. bears $N.38^{\circ}W$, 196 lks. dist.

E. B. T. 18 N. R. 9 E. G. & S. R. M.

Chains.

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

No other tree within limits.

Land mountainous

Soil 3rd rate,

Heavy timber of Pine.

Undergrowth of same and Juniper.North on a true line between sections 13rd & 18.

Va. 14° 45' East.

Ascend.

40.00

Set a Sand stone 16 x 12 x 5 ins., 11
ins. in the ground, for $\frac{1}{4}$ Sec. Cor., marked $\frac{1}{4}$ on W.
face, and raised a mound of stone alongside. Pits
impracticable.

from which

A Yellow Pine 20 ins. diam. bears $N. 40^{\circ} E.$, 200 lks. dist.
marked $\frac{1}{4}$ S. B. T.

No other tree within limits. Corner set on

Top of Spur, bears E. ^{and} W. and descend.

50.00

Leave Timber, Bears. E. ^{and} W.

56.80

Cross Ravine, Course. S. 70° E. and ascend.

80.00

Set a Sand stone 18 x 14 x 6 ins. 12 ins. in
the ground for Cor. to Secs. 7, 12, 13rd & 18, marked

E. B. T. 18 N R. 9 E. G. & S. R. M.

Chains.

with 4 notches on S. and 2 notches on ~~N~~ edges and raised a mound of stone. alongside, Pits impracticable.

Land mountainous

Soil 3rd rate.

Timber of Pine.

Vegetation, bunchgrass.

North on a true line between sections 7 and 12.

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

Ascend.

40.00 Set a sand stone $14 \times 11 \times 7$ ins., 9 ins. in the ground, for $\frac{1}{4}$ Sec. Cor., marked $\frac{1}{4}$ on W. face, and raised a mound of stone. alongside. Pits impracticable. Corner set on Top of Spur, bears N. W. and S. E. and descend.

72.00 Cross Ravine, Course. S. W. and ascend.

80.00 Set a sand stone $16 \times 15 \times 9$ ins. 11 ins. in the ground for Cor. to Secs. 1, 6, 7 and 12, marked with 5 notches on S. and 1 notch on ~~N~~ edges and raised a mound of stone. alongside. Pits impracticable. Land mountainous.

Soil 3rd rate

Vegetation bunchgrass.

E. B. T. 18 N. R. 9 E. G. & S. R. M.

Chains.

North on a true line between sections 1 and 6.

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

Ascend.

40.00 Set a sand stone $18 \times 9 \times 4$ ins., 12 ins. in the ground, for $\frac{1}{2}$ Sec. Cor., marked $\frac{1}{2}$ on W. face, and raised a mound of stone. alongside. Pits impracticable.

63.00 Top of Ridge, bears E. and W. and descend.

80.00 Set a sand stone $40 \times 24 \times 24$ ins. 30 ins. in the ground, for Cor. to Tps. 18 and 19 N. R's 9 and 10 E., marked with 6 notches on each edge, and raised a mound of stone. alongside. Pits impracticable.

Land mountainous.

Soil 3rd rate

Vegetation, bunch grass.

I carefully examined the adjustments of my solar compass to-day, particularly the latitude and reversing apparatus, and found them correct.

May 28th 1883.

N. B. T. 18 N. R. 9 E. G. & S. R. M.

Chains.

Before proceeding further with the exteriors of this Tp., I made a change of 5 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 further tested instrument by reversing.

I took the latitude and found it to be $34^{\circ} 58'$ North. From the Cor. to Tps. 18 & 19 N., Rs. 8 & 9 E., previously described.

I run East. on a random line on N. B. of Tp. Va. $14^{\circ} 45'$ East.

I set temporary corners at every half mile, and at 5 miles 79.89 chs. I arrive at a point 75 lks. South of Cor. to Tps.

18th & 19th N., Ro. 9th & 10th E., previously set by me. From which corner I run.

$S. 89^{\circ} 55' W.$ on a true line between sections 1st & 36, Va. $14^{\circ} 45'$ East.

Ascend.

40.00 Set a sand stone $16 \times 14 \times 8$ ins., 11 ins. in the ground, for $\frac{1}{4}$ Sec. Cor., marked $\frac{1}{4}$ on N. face, and raised a mound of stone. alongside. Pits impracticable.

U. B. T. 18 N. R. 9 E. G. & S. R. M.

Chains,

57.00 Top of Spur, bears N. and S. and descend.

80.00 Set a sand stone 24 x 16 x 12 ins. / 18 ins. in the ground for Cor. to Secs. 1, 2, 35 and 36, marked with 5 notches on N. and 1 notch on E. edges and raised a mound of stone. alongside. Pits impracticable. Land mountainous.

Soil 3rd rate

Vegetation, bunchgrass.

S. 89° 55' W. on a true line between sections 2 and 35.

Va. 14° 45' East.

Descend.

40.00 Set a sand stone 20 x 8 x 4 ins., 15 ins. in the ground, for 1/2 Sec. Cor., marked 1/2 on N. face, and raised a mound of stone. alongside. Pits impracticable.

60.00 Top of Spur, bears N. and S. and descend.

68.00 Enter Flat bears N. and S.

80.00 Set a post 4 ft. long, 4 ins. square, with marked stone.

12 ins. in the ground, for Cor. to Secs. 2, 3, 34 and 35, marked T. 194. S. 35, on N. E., R. 96, S. 2 on S. E., S. 3 on S. W, and S. 34 on N. W. faces, with 4 notches on N. and 2 notches on E. edges; and raised a mound of stone 2 ft. high, 4 1/2 ft. base around post. Pits impracticable.

U. B. T. 18 N. R. 9 E. G. & S. R. M.

Chains.

Land mountainous. and level.

Soil 3rd rate

Vegetation, bunchgrasses.

S. 89° 55' W. on a true line between sections 3rd and 34,

Va. 14° 45' East.

Over level land

37.00 Leave Flat bears N. 10° W. and S. 10° E. and ascend.

40.00 Set a sand stone 16 x 10 x 8 ins., 11 ins. in the ground, for $\frac{1}{4}$ Sec. Cor., marked $\frac{1}{4}$ on N. face, and raised a mound of stone. alongside. Pits impracticable.

80.00 Set a sand stone 24 x 24 x 10 ins. 18 ins. in the ground for Cor. to Secs. 3, 4, 33 and 34, marked with 3 notches on N. and 3 notches on E. edges and raised a mound of stone. alongside. Pits impracticable. Land level. and mountainous.

Soil 3rd rate

Vegetation, bunchgrasses and sagebrush.

U. B. T. 18 N. R. 9 E. G. & S. R. M.

Chains.

S. $89^{\circ}55'W$, on a true line between sections H ^{9a} 33

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

Ascend.

30.00 Top of Bluff bears N. $45^{\circ}W$. and S. $45^{\circ}E$. and descend.

40.00 Set a sand stone $16 \times 12 \times 5$ ins., 11 ins. in the ground, for $\frac{1}{2}$ Sec. Cor., marked $\frac{1}{2}$ on N. face, and raised a mound of stone alongside. Pits impracticable. from which

A Yellow Pine 20 ins. diam. bears S. $50^{\circ}E$, 178 lks. dist. marked $\frac{1}{2}$ S. B. T.

No other tree within limits.

74.00 Enter Valley, bears, N. $30^{\circ}W$. and S. $30^{\circ}E$.

80.00 Set a post 4 ft. long, 4 ins. square, with marked stone. 12 ins. in the ground, for Cor. to Secs. H, 5, 32nd 33, marked T. 19 N. S. 33, on N. E., R. 9 E, S. 4 on S. E., S. 5 on S. W, and S. 32 on N. W. faces, with 2 notches on N and 4 notches on E. edges; and raised a mound of stone 2 ft. high, $4\frac{1}{2}$ ft. base around post. Pits impracticable.

Land mountainous

Soil 3rd rate.

Timber of Pine.

Vegetation, bunchgrass.

N. B. T. 18 N. R. 9 E. G. & S. R. M.

Chains.

of $89^{\circ}55'W$. on a true line between sections 5^{th} and 32 .

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

Over level land

40.00 Set a post 3 ft. long, 3 ins. diam. with marked stone.
12 ins. in the ground, for $\frac{1}{2}$ Sec. Cor., marked $\frac{1}{2}$ S. on
N. face, dug pits, 18 x 18 x 12 ins., E. and W. of
post $5\frac{1}{2}$ ft. dist., and raised a mound of earth $1\frac{1}{2}$ ft.
high, $3\frac{1}{2}$ ft. base around post.

65.00 Leave Valley, bears N. $22^{\circ}15'$ and ascend.

80.00 Set a post 4 ft. long, 4 ins. square, with marked stone.
12 ins. in the ground, for Cor. to Secs. 5, 6, 31^{th} and 32 ,
marked T. 17th S. 32, on N. E., R. 9^E, S. 5
on S. E., S. 6 on S. W, and S. 31 on N. W. faces;
with 1 notch on N and 5 notch on E. edges;
and raised a mound of stone 2 ft. high, $4\frac{1}{2}$ ft. base
around post. Pits impracticable. from which

A Yellow Pine 24 ins. diam. bears N. $70^{\circ}E$, 76 lks. dist.
marked T. 17th R. 9^E, S., 32 B. T.

A Yellow Pine 40 ins. diam. bears S. $20^{\circ}E$, 19 lks. dist.
marked T. 18th R. 9^E, S., 5 B. T.

A Burr Oak 12 ins. diam. bears S. $70^{\circ}W$, 43 lks. dist.
marked T. 18th R. 9^E, S., 6 B. T.

U. B. T. 18 N. R. 9 E. G. & S. R. M.

Chains.

No other tree within limits.

Land mountainous

Soil 3rd rate,

Heavy timber of Pine and Oak.

Undergrowth of Saw and Juniper.

S. 89° 55' W. on a true line between sections 6 and 31.

Va. 14° 45' East.

Ascend.

33.00 Top of Spur, bears N. and S. and descend.

40.00 Set a post 3 ft. long, 3 ins. diam. 24 ins. in the ground, for 1/2 Sec. Cor., marked 1/2 S. on N. face; from which

a Yellow Pine 10 ins. diam. bears S. 42° E, 140 lks. dist. marked 1/2 S. B. T.

A Yellow Pine 36 ins. diam. bears S. 69 1/2° W, 100 lks. dist. marked 1/2 S. B. T.

77.89 The Cor. to Tps. 18 and 19 N. Rs. 8 & 9 E.

Land mountainous

Soil 3rd rate,

Heavy timber of Pine and Oak.

Undergrowth of Saw and Juniper.

May 24th 1883.

S. B. T. 17 N. R. 12 E. G. & S. R. M.

40A

No. 1313

Chains.

Standard
From the Cor. to Tps. 17 N. Rs. 11 & 12 &
previously described. I run,

East. on a true line on S. B. of Section 31 -
Va. 14° 40' East.

Ascend.

40.00 Set a sand stone 20 x 11 x 4 ins., 15
ins. in the ground, for Standard $\frac{1}{4}$ Sec. Cor., marked S.
C. $\frac{1}{4}$ on N. face, and raised a mound of stone. alongside.
Pits impracticable. from which

A Juniper 20 ins. diam. bears S. 7 $\frac{1}{2}$ ° E. 56 lks. dist.
marked $\frac{1}{4}$ S. B. T. No other tree within limits.

63.50 Top of Ridge, bears N. 7° E. and descend.

80.00 Set a sand stone 20 x 10 x 6 ins. 15 ins. in
the ground for Standard Cor. to Secs. 31 and 32
marked S. C., with 5 notches on E. and 1 notch on
W. edges and raised a mound of stone. alongside.
Pits impracticable. from which

A Juniper 20 ins. diam. bears N. 15° E. 56 lks. dist.
marked T. 17 N. R. 12 E., S., 32 B. T.

No other tree within limits.

Land mountainous

Soil 2nd & 3rd rate.

Timber of Pine & Juniper.

Vegetation grass & sage

Chains.

East. on a true line on S. B. of Section 32

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

Descend.

40.00

Set a sand stone $16 \times 10 \times 4$ ins., 10
ins. in the ground, for ^{Standard} $\frac{1}{4}$ Sec. Cor., marked ^{S. C.} $\frac{1}{4}$ on N.
face, and raised a mound of stone. alongside. Pits
impracticable. from which

A Juniper 14 ins. diam. bears S. $50^{\circ}W$. 53 lks. dist.
marked ^{S. C.} $\frac{1}{4}$ S. B. T. No other tree within limits.

80.00

Set a sand stone $18 \times 12 \times 6$ ins. 12 ins. in
the ground for ^{Standard} Cor. to Secs. 32 & 33 marked S. C.
with 4 notches on S, and 2 notches on W. edges and
raised a mound of stone. alongside. Pits impracticable.
from which

A Pine 18 ins. diam. bears N. $60^{\circ}W$. 84 lks. dist.
marked T. 17 N. R. 12 E. S. 32 B. T.

A Pine 20 ins. diam. bears N. $45^{\circ}E$. 143 lks. dist.
marked T. 17 N. R. 12 E. S. 33 B. T.
No other tree within limits.
Land mountainous

Soil 2nd & 3rd rate,

Heavy timber of *Quercus* & *Juniper*

Undergrowth of same & grass

June 4, 1883.

E. B. T. 17 N. R. 11 E. G. & S. R. M. 41A

Chains.

Standard
From the Cor. to Tps. 17 N. Rs. 11 & 12 E,
previously described. by me I run,

North on a true line between sections 31nd & 36,
Va. 14° 40' East.

Ascend.

31.00 Top of Ridge, bears \angle . 60° W. ^{and} S. 60° E. and descend.

40.00 Set a sand stone 14 x 12 x 8 ins., 9
ins. in the ground, for $\frac{1}{4}$ Sec. Cor., marked $\frac{1}{4}$ on W.
face, and raised a mound of stone. alongside. Pits
impracticable.

from which

A Juniper 20 ins. diam. bears \angle . 10 $\frac{1}{2}$ ° W, 130 lbs. dist.
marked $\frac{1}{4}$ S. B. T.

No other tree within limits.

80.00 Set a sand stone 36 x 20 x 5 ins. 27 ins. in
the ground for Cor. to Secs. 25, 30, 31nd & 36, marked
with / notch on S. and 5 notches on W edges and
raised a mound of stone. alongside. Pits impracticable.
from which

A Juniper 20 ins. diam. bears \angle . 20° W, 86 lbs. dist.
marked T. 17 N. R. 11 E, S., 36 B. T.

A Pine 8 ins. diam. bears \angle . 15° E, 44 lbs. dist.

E. B. T. 17 N. R. 11 E. G. & S. R. M.

Chains.

marked T. 17 N. R. 12 E., S., 31 B. T.

No other tree within limits.

Land mountainous

Soil 3rd rate,

Heavy timber of Pine and Juniper.

Undergrowth of same.

North on a true line between sections 25th and 30,

Va. $14^{\circ} 38'$ East.

Descend.

40.00 Set a sand stone $15 \times 12 \times 4$ ins., 10 ins. in the ground, for $\frac{1}{2}$ Sec. Cor., marked $\frac{1}{2}$ on W. face, and raised a mound of stone. alongside. Pits impracticable.

from which

A Pine 8 ins. diam. bears $N. 40^{\circ} W.$, 55 lks. dist. marked $\frac{1}{2}$ S. B. T.

A Juniper 24 ins. diam. bears $N. 24^{\circ} E.$, 53 lks. dist. marked $\frac{1}{2}$ S. B. T.

80.00 Set a sand stone $20 \times 11 \times 4$ ins. 15 ins. in the ground for Cor. to Secs. 19, 24, 25th and 30 marked with 2 notches on S. and 4 notches on W. edges and raised a mound of stone. alongside. Pits impracticable.

E. B. T. 17 N. R. 11 E. G. & S. R. M.

Chains.

from which

A Pine 20 ins. diam. bears $N. 15^{\circ} W.$, 150 lks. dist.
marked T. 17 N. R. 12 E. S., 19 B. T.

A Juniper 20 ins. diam. bears $S. 25^{\circ} W.$, 101 lks. dist.
marked T. 17 N. R. 11 E. S., 25 B. T.

No other tree within limits.

Land mountainous

Soil 3rd rate,

Heavy timber of Pine and Juniper.

Undergrowth of Oaves.

North on a true line between sections 19 ^{and} 24.

Va. 140 35' East.

Descend.

20.70 Cross Canon, 350 lks. wide, Course $N. 15^{\circ} E.$ and ascend.

40.00 Set a sand stone $20 \times 11 \times 4$ ins., 15
ins. in the ground, for $\frac{1}{4}$ Sec. Cor., marked $\frac{1}{4}$ on W.
face, and raised a mound of stone alongside. Pits
impracticable. from which

A Juniper 8 ins. diam. bears $N. 30^{\circ} E.$, 66 lks. dist.
marked $\frac{1}{4}$ S. B. T.

A Juniper 18 ins. diam. bears $N. 7^{\circ} W.$, 11 lks. dist.

E. B. T. 17 N. R. 11 E. G. & S. R. M.

Chains.

marked $\frac{1}{4}$ S. B. T.

80.00

Set a Sandstone 18 x 11 x 8 ins. 12 ins. in
the ground for Cor. to Secs. 13, 18, 19 ^{and} 24, marked
with 3 notches on S. and 3 notches on \forall edges and
raised a mound of stone. alongside. Pits impracticable.
from which

A Juniper 12 ins. diam. bears $N. 30^{\circ} E.$, 11 lks. dist.
marked T. 17 N. R. 12 E, S., 18 B. T.

A Juniper 8 ins. diam. bears $S. 14 \frac{1}{2}^{\circ} E.$, 6 lks. dist.
marked T. 17 N. R. 12 E, S., 19 B. T.

A Juniper 12 ins. diam. bears $S. 12^{\circ} W.$, 22 lks. dist.
marked T. 17 N. R. 11 E, S., 24 B. T.

No other tree within limits.

Land mountainous

Soil 3rd rate,

Heavy timber of Pine and Juniper.

Undergrowth of same.

E. B. T. 17 N. R. 11 E. G. & S. R. M.

North on a true line between sections 13th & 18th.

Va. 14° 30' East.

Ascend.

24.00 Top of Ridge, bears E. and W. and descend.

40.00 Set a post 3 ft. long, 3 ins. diam. with marked stone.
12 ins. in the ground, for $\frac{1}{2}$ Sec. Cor., marked $\frac{1}{2}$ S. on
W. face, dug pits, 18 x 18 x 12 ins., N. and S. of
post 5 $\frac{1}{2}$ ft. dist., and raised a mound of earth 1 $\frac{1}{2}$ ft.
high, 3 $\frac{1}{2}$ ft. base around post. from whichA Juniper 24 ins. diam. bears S. 39 $\frac{1}{2}$ ° W., 48 lks. dist.
marked $\frac{1}{2}$ S. B. T.

No other tree within limits.

80.00 Set a post 4 ft. long, 4 ins. square, with marked stone.
12 ins. in the ground, for Cor. to Secs. 7, 12, 13th & 18th
marked T. 17 N. S. 7, on N. E., R. 12 E., S. 18
on S. E. S. 13 on S. W. and S. 12 on N. W. faces;
with 4 notches on S. and 2 notches on N. edges;
dug pits, 18 x 18 x 12 ins. in each Sec., 5 $\frac{1}{2}$ ft. dist.,
and raised a mound of earth 2 ft. high, 4 $\frac{1}{2}$ ft. base
around post.

from which

A Juniper 10 ins. diam. bears N. 9° E., 23 lks. dist.
marked T. 17 N. R. 12 E., S., 7 B. T.

E. B. T. 17 N. R. // E. G. & S. R. M.

C) Chains.

A Juniper 18 ins. diam. bears $N. 19 \frac{1}{2}^{\circ} W.$, 43 lks. dist.
marked T. 17 N. R. // E. S., 13 B. T.

A Juniper 20 ins. diam. bears $N. 34^{\circ} W.$, 60 lks. dist.
marked T. 17 N. R. // E. S., 12 B. T.

No other tree within limits.

Land mountainous

Soil 300 rate,

Heavy timber of Pine and Juniper.

Undergrowth of same.

North on a true line between sections 7 and 12.
Va. $14^{\circ} 05'$ East.

Descend.

40.00 Set a sand stone $18 \times 13 \times 5$ ins., 12
ins. in the ground, for $\frac{1}{2}$ Sec. Cor., marked $\frac{1}{2}$ on W.
face, and raised a mound of stone alongside. Pits
impracticable.

from which

A Juniper 20 ins. diam. bears $N. 15 \frac{1}{2}^{\circ} E.$, 34 lks. dist.
marked $\frac{1}{2}$ S. B. T.

No other tree within limits.

65.00 Cross low Sag and ascend.

E. B. T. 17 N. R. 11 E. G. & S. R. M.

Chains.

80.00

Set a Sand stone $20 \times 11 \times 4$ ins. 15 ins. in
the ground for Cor. to Secs. 1, 6, 7 and 12, marked
with notches on S. and 1 notch on ~~E~~ edges and
raised a mound of stone. alongside. Pits impracticable.
from which

A Juniper 10 ins. diam. bears $N. 8 \frac{1}{2}^{\circ} E$, 40 lks. dist.
marked T. 17 N. R. 12 E, S., 6 B. T.

A Juniper 20 ins. diam. bears $S. 11 \frac{1}{2}^{\circ} W$, 70 lks. dist.
marked T. 17 N. R. 11 E, S., 12 B. T.

No other tree within limits.

Land mountainous

Soil 3rd rate,

Heavy timber of Pine and Juniper,
Undergrowth of same.

E. B. T. 17 N. R. 11 E. G. & S. R. M.

Chains.

North on a true line between sections 1 and 6.

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

Ascend.

21.60 Cross Road, bears, $E. \frac{1}{2} W$

40.00 Set a sand stone $18 \times 11 \times 7$ ins., 12 ins. in the ground, for $\frac{1}{4}$ Sec. Cor., marked $\frac{1}{4}$ on W. face, and raised a mound of stone alongside. Pits impracticable. from which

A Juniper 8 ins. diam. bears $S. 12^{\circ} W$, 16 lks. dist. marked $\frac{1}{4}$ S. B. T.

A Juniper 12 ins. diam. bears $S. 38^{\circ} E$, 96 lks. dist. marked $\frac{1}{4}$ S. B. T.

80.00 Set a post, $4\frac{1}{2}$ ft. long, 4 ins. square, with marked stone 12 ins. in the ground, for Cor: to Tps. 17 and 18 N. R's 11 and 12 E, marked T, 18 N. S. 31 on N. E. R. 12 E. S: 6 on S. E. T. 17 N. S. 1 on S. W, and R, 11 E. S, 36 on N, W, faces, with 6 notches on each edge, dug, pits $24 \times 18 \times 12$ ins., lengthwise on each line, N, S, E, and W, of post, 6 ft, dist, and raised a mound of earth $2\frac{1}{2}$ ft. high, 5 ft. base around post. from which

E. B. T. 17 N. R. 11 E. G. & S. R. M.

Chains.

A Pine 20 ins. diam. bears $N. 50^{\circ} W.$, 93 lbs. dist.
marked T. 184. R. 11 E., S., 36 B. T.

A Pine 22 ins. diam. bears $N. 39^{\frac{1}{2}}^{\circ} E.$, 100 lbs. dist.
marked T. 184. R. 12 E., S., 31 B. T.

A Juniper 11 ins. diam. bears $N. 30^{\circ} W.$, 96 lbs. dist.
marked T. 174. R. 11 E., S., 1 B. T.

No other tree within limits.

Land mountainous

Soil 3rd rate,

Heavy timber of Pine and Juniper.

Undergrowth of same.

I carefully examined the adjustments of my solar
compass to-day, particularly the latitude and revers-
ing apparatus, and found them correct.

June 5th 1883.

U. B. T. 17 N. R. 11 E. G. & S. R. M.

Chains.

Before proceeding further with the exteriors of this T^p, I made a change of 5 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 further tested instrument by reversing.

I took the latitude and found it to be $34^{\circ} 53' N$.

From the Cor. to Tps. 17 & 18 N, Rs. 10 & 11 E, previously described. *By me*

I run East. on a random line on U. B. of T^p.

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

I set temporary corners at every half mile, and at 5 miles 79.90 chs. I arrive at a point 50 lks. North of Cor. to Tps.

17 and 18 N, Ro. 11 and 12 E,

previously set by me. From which corner I run.

$N. 89^{\circ} 56' 10''$ on a true line between sections 1 and 36.

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

Descend.

40.00 Set a sand stone $16 \times 12 \times 5$ ins., 11 ins. in the ground, for $\frac{1}{4}$ Sec. Cor., marked $\frac{1}{4}$ on N. face, and raised a mound of stone alongside. Pits impracticable.

U. B. T. 17 N. R. // E. G. & S. R. M.

Chains.

from which

~~A Pine 14 ins. diam. bears $N. 16^{\circ} E$, 24 lbs. dist.
marked $\frac{1}{2}$ S. B. T.~~

No other tree within limits.

80.00

A Juniper 12 ins. diam. which I marked
T. 184. S. 36, on N. E. R. $11^{\circ} E$ S. 1 on
³¹⁷⁴
S. E. S. 2, on S. W. and S. 35 on N. W. faces,
with 5 notches on ~~N~~ and 1 notch on E. edges,
dug pits 18 x 18 x 12 ins. in each sec. $5\frac{1}{2}$ ft. dist. and
raised a mound of earth around tree, for cor. to secs.

1-2-35-36 from which

A Juniper 8 ins. diam. bears $N. 4\frac{1}{2}^{\circ} E$, 3 lbs. dist.
marked T. 184. R. $11^{\circ} E$, S., 36 B. T.

A Juniper 9 ins. diam. bears $S. 20\frac{1}{2}^{\circ} E$, 20 lbs. dist.
marked T. 174, R. $11^{\circ} E$, S., 1 B. T.

No other tree within limits.

Land mountainous

Soil 3rd rate,

Heavy timber of Pine and Juniper,
Undergrowth of same.

U. B. T. 17 N. R. 11 E. G. & S. R. M.

Chains.

N. $89^{\circ} 56' W$ on a true line between sections 2 and 35.
Va. $14^{\circ} 38'$ East.

Descend.

40.00 Set a sand stone $17 \times 11 \times 6$ ins., 11 ins. in the ground, for $\frac{1}{4}$ Sec. Cor., marked $\frac{1}{4}$ on N. face, and raised a mound of stone. alongside. Pits impracticable.

from which

A Pine 20 ins. diam. bears S. $20^{\circ} E$, 20 lks. dist.
marked $\frac{1}{4}$ S. B. T.

No other tree within limits.

60.00 Descend. abruptly.

76.00 Cross Canon, 300 lks. wide, Course N. and ascend.

80.00 Set a sand stone $20 \times 10 \times 5$ ins. 15 ins. in the ground for Cor. to Secs. 2, 3, 34 and 35 marked with 4 notch^{es} on N. and 2 notch^{es} on E. edges and raised a mound of stone. alongside. Pits impracticable.
from which

A Pine 10 ins. diam. bears N. $15^{\circ} W$, 103 lks. dist.
marked T. 1811, R. 11 E, S., 34 B. T.

A Juniper 8 ins. diam. bears N. $6\frac{1}{2}^{\circ} W$, 32 lks. dist.
marked T. 1811, R. 11 E, S., 34 B. T.

W. B. T. 17 N. R. 11 E. G. & S. R. M.

Chains.

A Juniper 9 ins. diam. bears S. 37 1/2° E, 92 lks. dist.
marked T. 174, R. 11 E, S., 2 B. T.

No other tree within limits.

Land mountainous

Soil 3rd rate,

Heavy timber of Pine and Juniper.

Undergrowth of same.

N. 89° 56' W. on a true line between sections 3 and 34,

Va. 14° 35' East.

Ascend.

3.00 Top of Spur, bears N. 15° W. and S. 15° E, and descend.

8.50 Cross Canon, 175 lks. wide, Course S. 30° E.

15.00 ^{same} Cross Canon, 175 lks. wide, Course N. 30° E, and ascend.

40.00 Set a sand stone 14 x 11 x 8 ins., 7
ins. in the ground, for 1/4 Sec. Cor., marked 1/4 on N.
face, and raised a mound of stone. alongside. Pits
impracticable.

from which

A Pine 20 ins. diam. bears S. 7 1/2° W, 34 lks. dist.
marked 1/4 S. B. T.

A Pine 9 ins. diam. bears S. 29° E, 84 lks. dist.

U. B. T. 17 N. R. 11 E. G. & S. R. M.

Chains.

marked $\frac{1}{4}$ S. B. T.

80.00

Set a post 4 ft. long, 4 ins. square, with marked stone.
 12 ins. in the ground, for Cor. to Secs. 3, 4, 33^W 34,
 marked T. 18 N. S. 34, on N. E., R. 11^E, S. 3
 on S. E. S. ^{5.17 N.} 4 on S. W. and S. 33 on N. W. faces,
 with 3 notches on W. and 3 notches on E. edges;
 dug pits, 18 x 18 x 12 ins. in each Sec., 5 $\frac{1}{2}$ ft. dist.,
 and raised a mound of earth 2 ft. high, 4 $\frac{1}{2}$ ft. base
 around post.

from which

A Juniper 20 ins. diam. bears N. 20 $^{\circ}$ E., 174 lks. dist.

marked T. 18 N. R. 11^E, S., 34 B. T.

A Juniper 12 ins. diam. bears N. 37 $^{\circ}$ W., 188 lks. dist.

marked T. 18 N. R. 11^E, S., 33 B. T.

No other tree within limits.

Land mountainous

Soil 3rd rate,

Heavy timber of Pine and Juniper.

Undergrowth of Oame.

U. B. T. 17 N. R. 11 E. G. & S. R. M.

Chains.

- U. 89° 56' W. on a true line between sections 4th and 33, Va. 14° 35' East.
- Ascend.
- 40.00 Set a sand stone 14 x 11 x 9 ins., 9 ins. in the ground, for $\frac{1}{4}$ Sec. Cor., marked $\frac{1}{4}$ on W. face, and raised a mound of stone. alongside. Pits impracticable. from which
- A Juniper 20 ins. diam. bears N. 20° W, 36 lbs. dist. marked $\frac{1}{4}$ S. B. T.
- A Juniper 18 ins. diam. bears S. 7 $\frac{1}{2}$ ° W, 10 lbs. dist. marked $\frac{1}{4}$ S. B. T.
- 60.00 Top of Spur, bears U. and S. and descend.
- 80.00 Set a sand stone 30 x 14 x 9 ins. 22 ins. in the ground for Cor. to Secs. 4, 5, 32nd and 33, marked with 2 notches on W and 4 notches on E. edges and raised a mound of stone. alongside. Pits impracticable. from which
- A Juniper 8 ins. diam. bears N. 10 $\frac{1}{2}$ ° E, 36 lbs. dist. marked T. 18 N, R. 11 E, S., 33 B. T.
- A Juniper 20 ins. diam. bears S. 6 $\frac{1}{2}$ ° W, 30 lbs. dist. marked T. 17 N. R. 11 E, S., 5 B. T.
- A Yellow Pine 24 ins. diam. bears S. 15° E, 123 lbs. dist.

N. B. T. 17 N. R. 11 E. G. & S. R. M.

Chains.

marked T. 17 N. R. 11 E, S., 4 B. T.

No other tree within limits.

Land mountainous

Soil 3rd rate,

Heavy timber of Pine and Juniper.
Undergrowth of same.

N. 89° 36' W. on a true line between sections 5th and 32.

Va. 14° 35' East.

Ascend.

25.00 Top of Spur, bears N. 20° W. ^{and} S. 20° E. and descend.

40.00 Set a sand stone 16 x 9 x 5 ins., 11 ins. in the ground, for 1/4 Sec. Cor., marked 1/4 on N. face, and raised a mound of stone. alongside. Pits impracticable.

from which

A Juniper 20 ins. diam. bears N. 39° E., 77 lks. dist. marked 1/4 S. B. T.

No other tree within limits.

62.00 Cross Canon, 200 lks. wide, Course N. E. and ascend.

80.00 Set a sand stone 18 x 14 x 6 ins. 12 ins. in the ground for Cor. to Secs. 5, 6, 31 ^{and} 32, marked with 1 notch on N. and 5 notches on E. edges and raised a mound of stone. alongside. Pits impracticable.

N. B. T. 17 N. R. 11 E. G. & S. R. M.

Chains.

from which

A Pine 8 ins. diam. bears N. 20° W, 33 lbs. dist.

marked T. 184, R. 11 E, S., 31 B. T.

A Juniper 9 ins. diam. bears N. 6 1/2° E, 15 lbs. dist.

marked T. 184, R. 11 E, S., 32 B. T.

A Juniper 10 ins. diam. bears S. 8° W, 20 lbs. dist.

marked T. 174, R. 11 E, S., 6 B. T.

No other tree within limits.

Land mountainous

Soil 3rd rate,

Heavy timber of Pine and Juniper.

Undergrowth of same.

N.B. T. 17 N. B. 11 E. G. & S. R. M.

Chains.

N. 89° 56' W on a true line between sections 6th & 8th.

Va. 14° 30' East.

Ascend.

40.00

Set a Sand stone 20 x 12 x 5 ins., 15 ins. in the ground, for 1/4 Sec. Cor., marked 1/4 on N. face, and raised a mound of stone. alongside. Pits impracticable. from which

A Juniper 8 ins. diam. bears N. 29 1/2° E, 96 lks. dist. marked 1/4 S. B. T.

A Juniper 12 ins. diam. bears N. 6 1/2° W, 33 lks. dist. marked 1/4 S. B. T.

79.90

The Cor. to Tps. 17th & 18th N. Rs. 10 & 11 E.

Land mountainous

Soil 3rd rate,

Heavy timber of Pine and Juniper.

Undergrowth of same.

June 7th 1883

E. B. T. 16 N. R. 11 E. G. & S. R. M.

Chains.

From the Cor. to Tps. 15th & 16th N. Rs. 11 & 12^E,
previously described, by *me* I run,

North on a true line between sections 31st & 36th.

Va. 14° 32' East.

Ascend.

40.00 Set a Sand stone 20 x 10 x 4 ins., 15
ins. in the ground, for $\frac{1}{2}$ Sec. Cor., marked $\frac{1}{2}$ on W.
face, and raised a mound of stone. alongside. Pits
impracticable.

from which

A Pine 12 ins. diam. bears $\text{of } 7\frac{1}{2}^{\circ}\text{E}$, 15 lks. dist.
marked $\frac{1}{2}$ S. B. T.

No other tree within limits.

69.00 Top of Ridge, bears E. ^{2d} W. and descend.

80.00 Set a Sand stone 20 x 12 x 6 ins., 15 ins. in
the ground for Cor. to Secs. 25, 30, 31st & 36th, marked
with 1 notch on S. and 5 notches on ~~W~~ edges and
raised a mound of stone. alongside. Pits impracticable.

from which

A Pine 8 ins. diam. bears $\text{N. } 9\frac{1}{2}^{\circ}\text{W}$, 64 lks. dist.
marked T. 16th R. 11^E, S., 25 B. T.

A Pine 12 ins. diam. bears $\text{N. } 25^{\circ}\text{E}$, 20 lks. dist.

E. B. T. 16 N. R. 11 E. G. & S. R. M.

Chains.

marked T. 16 N. R. 12 E. S. 30 B. T.

No other tree within limits.

Land mountainous

Soil 30th rate,

Heavy timber of Pine and Juniper.

Undergrowth of same.

North on a true line between sections 25th and 30.

Va. 14° 32' East.

Descend.

34.60 Cross Wash, 80 lks. wide, Course S 75° W and ascend.

40.00 Set a sand stone 24 x 14 x 7 ins. 1/8 ins. in the ground, for 1/2 Sec. Cor., marked 1/2 on W. face, and raised a mound of stone. alongside. Pits impracticable.

from which

A Pine 14 ins. diam. bears N. 9° W, 12 lks. dist. marked 1/2 S. B. T.

No other tree within limits.

80.00 Set a sand stone 24 x 13 x 7 ins. 1/8 ins. in the ground for Cor. to Secs. 19, 24, 25th and 30, marked with 2 notches on S. and 4 notches on W. edges and raised a mound of stone. alongside. Pits impracticable.

E. B. T. 16 N. R. 11 E. G. & S. R. M.

Chains.

from which

A Pine 17 ins. diam. bears $N. 60^{\circ} E.$, 130 lks. dist.
marked T. 16 N. R. 12 E, S., 19 B. T.

A Pine 18 ins. diam. bears $S. 35^{\circ} E.$, 175 lks. dist.
marked T. 16 N. R. 12 E, S., 30 B. T.

A Pine 8 ins. diam. bears $N. 57^{\circ} W.$, 170 lks. dist.
marked T. 16 N. R. 11 E, S., 24 B. T.

No other tree within limits.

Land mountainous

Soil 3rd rate,

Heavy timber of Pine and Juniper.

Undergrowth of same.

E. B. T. 16 - N. R. 11 E. G. & S. R. M.

Chains.

North on a true line between sections 19² & 24.

Va. 14032' East.

Ascend.

2.00 Top of Spur, bears N. E. ² & S. W. and descend.

28.00 Cross low Sag and ascend.

40.00 Set a sand stone 16 x 9 x 7 ins., //
ins. in the ground, for $\frac{1}{4}$ Sec. Cor., marked $\frac{1}{4}$ on W.
face, and raised a mound of stone. alongside. Pits
impracticable.

from which

A Pine 12 ins. diam. bears N. 15° E, 24 lbs. dist.
marked $\frac{1}{4}$ S. B. T.

No other tree within limits.

54.50 Top of Spur, bears E. ² & W. and descend.80.00 Set a sand stone 24 x 12 x 7 ins. 18 ins. in
the ground for Cor. to Secs. 12, 18, 19 & 24, marked
with 3 notch 20 on S. and 3 notches on W edges and
raised a mound of stone. alongside. Pits impracticable.
from whichA Juniper 18 ins. diam. bears S. 8 1/2° E, 28 lbs. dist.
marked T. 16 N. R. 12 E, S., 19 B. T.

A Pine 8 ins. diam. bears S. 15° W, 66 lbs. dist.

E. B. T. 16 N. R. 11 E. G. & S. R. M.

Chains.

marked T. 16 N. R. 11 E., S., 24 B. T.

A Pine 20 ins. diam. bears $N. 50^{\circ} W.$ 154 lks. dist.

marked T. 16 N., R. 11 E., S., 13 B. T.

No other tree within limits.

Land mountainous

Soil 3rd rate,

Heavy timber of Pine and Juniper,

Undergrowth of same.

North on a true line between sections 13th and 18.Va. $14^{\circ} 32'$ East.

Descend.

6.00 Cross Wash, 100 lks. wide, Course E. and ascend.

37.00 Top of Mountain, bears $N. W. \text{ and } E.$ and descend.40.00 Set a Sand stone $20 \times 11 \times 5$ ins., 15
ins. in the ground, for $\frac{1}{2}$ Sec. Cor., marked $\frac{1}{2}$ on W.
face, and raised a mound of stone. alongside. Pits
impracticable. from whichA Pine 12 ins. diam. bears $N. 15^{\circ} E.$ 43 lks. dist.marked $\frac{1}{2}$ S. B. T.A Pine 18 ins. diam. bears $N. 30^{\circ} W.$ 33 lks. dist.marked $\frac{1}{2}$ S. B. T.

E. B. T. 16 N. R. 11 E. G. & S. R. M.

Chains.

- 80.00 Set a Sand stone $16 \times 12 \times 7$ ins. 11 ins. in the ground for Cor. to Secs. 7, 12, 13 and 18, marked with 4 notches on S. and 2 notches on N edges and raised a mound of stone. alongside. Pits impracticable. from which
- A Juniper 20 ins. diam. bears $S. 20^{\circ} W$, 39 lks. dist. marked T. 16 N., R. 11 E., S., 13 B. T.
- A Pine 10 ins. diam. bears $N. 10 \frac{1}{2}^{\circ} W$, 37 lks. dist. marked T. 16 N., R. 11 E., S., 12 B. T.
- A Pine 12 ins. diam. bears $S. 8^{\circ} E$, 33 lks. dist. marked T. 16 N., R. 12 E., S., 18 B. T.
- No other tree within limits.
- Land mountainous
- Soil 3rd rate,
- Heavy timber of Pine and Juniper.
- Undergrowth of same.

E. B. T. 16 N. R. 11 E. G. & S. R. M.

Chains.

North on a true line between sections 7th & 12.

Va. 140 32' East.

~~Descend~~9.50 Descend. *almpetty*

40.00 Set a Sand stone 16 x 11 x 5 ins., 11
ins. in the ground, for $\frac{1}{4}$ Sec. Cor., marked $\frac{1}{4}$ on W.
face, and raised a mound of stone. alongside. Pits
impracticable.

from which

A Pine 12 ins. diam. bears N. 12° E, 45 lbs. dist.
marked $\frac{1}{4}$ S. B. T.

A Juniper 14 ins. diam. bears S. 10 $\frac{1}{2}$ W, 14 lbs. dist.
marked $\frac{1}{4}$ S. B. T.

68.00 Cross Road, bears, E. $\frac{1}{2}$ W

80.00 Set a Sand stone 24 x 15 x 7 ins. 18 ins. in
the ground for Cor. to Secs. 1, 6. 7th & 12, marked
with 5 notches on S. and 1 notch on W edges and
raised a mound of stone. alongside. Pits impracticable.

from which

A Juniper 15 ins. diam. bears N. 20 $\frac{1}{2}$ E, 127 lbs. dist.
marked T. 16 N. R. 12 E, S., 6 B. T.

A Pine 8 ins. diam. bears N. 30 W, 96 lbs. dist.

E. B. T. 16 N. R. 11 E. G. & S. R. M.

Chains.

marked T. 164, R. 11 E, S., 1 B. T.

A Juniper 8 ins. diam. bears S. 8° W, 60 yds. dist.

marked T. 164, R. 11 E, S., 12 B. T.

No other tree within limits.

Land mountainous

Soil 3rd rate,

Heavy timber of Pine & Juniper.

Undergrowth of same.

North on a true line between sections 1 and 6.

Va. 14° 32' East.

Descend.

40.00

Set a sand stone 14 x 11 x 5 ins., 9 ins. in the ground, for $\frac{1}{4}$ Sec. Cor., marked $\frac{1}{4}$ on W. face, and raised a mound of stone. alongside. Pits impracticable.

from which

A Juniper 10 ins. diam. bears N. 60° W, 65 yds. dist.

marked $\frac{1}{4}$ S. B. T.

A Pine 20 ins. diam. bears S. 15° E, 45 yds. dist.

marked $\frac{1}{4}$ S. B. T.

42.25

Intersect the 4th Standard Parallel North, at a

E. B. T. 16 N. R. 11 E. G. & S. R. M.

Chains.

point 31.30 chs. East of the Standard Cor. to
Secs. 32 and 33 . T. 17 N. R. 11 E.
previously set by me, and

Set a sand stone 15 x 10 x 8 ins. 10 ins. in the
ground, for ^{Closing} Cor. to Tps. 16 N., R's 11 and
12 E., marked C. C. with 6 notches on S, E. & W. edges,
and raised a mound of stone, alongside.

Pits impracticable,

Land mountainous

Soil 3rd rate,

Heavy timber of Pine ^{and} Juniper,

Undergrowth of same.

I carefully examined the adjustments of my solar
compass to-day, particularly the latitude and revers-
ing apparatus, and found them correct.

June 20th 1883.

U. S. Surveyor General's Office,

Tucson, Arizona, June 17, 1884

a portion of
The foregoing Field Notes of the Survey of the

Exterior Lines of

Township 22 N. R. 8 East

Townships 16 & 17 N. R. 11 East

Township 18 North

Range 9 East

Of the Gila and Salt River Base and Meridian, Arizona, executed by

O. W. Wheeler

Deputy Surveyor, under his contract of the 17th day of

July

17th

1884, having been critically examined and the necessary corrections and explanations made, the said Field Notes and the surveys they describe are hereby approved

Royce Johnson
Surveyor General.