

1392

BOOK 1392

1392

F I E L D N O T E S

OF
Portion of
The Exterior Lines
of Townships 10, 11, 12, 13,
and 17 N., Ranges 18, 19, 24 and
25 E.,

Gila and Salt River Meridian

ARIZONA.

By

H. A. Cox, Deputy Surveyor,
under his contract of July 25, 1882.
Survey commenced December 26, 1882.
Survey completed April 9th, 1883.

Preliminary Oaths of Assistants.

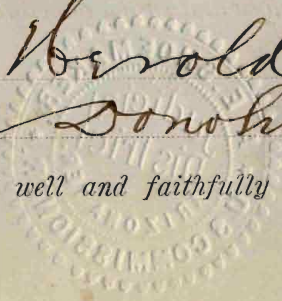
I, _____, do solemnly swear that I will well and truly perform the duties of compassman, according to instructions given me, and to the best of my skill and ability, in the survey of the _____

_____, Compassman.

Subscribed and sworn to before me this _____ day of _____, 188_____.

We, *Henry Berold*
and *Thomas Sonohue*,

do solemnly swear that we will well and faithfully execute the



duties of chain carriers; that we will level the chain upon even and uneven ground and plumb the tally pins, either by sticking or dropping the same; that we will report the true distance to all notable objects, and the true length of all lines that we assist in measuring, to the best of our skill and ability, and in accordance

with instructions given us, in the survey of the Exterior lines of Tps 11+12 N. R 18+19 E. T. 10 N. R 18 E. T. 13 N. R 18 E. T. 10 N. R 24 E + T. 17 N. R 24+25 E. Retractions of a portion of the exterior of Tps 13 N. R. 18+19 E. T. 12 N. R 27 E. T. 13 N. R 25 E and T. 17 N. R 22 E and the subdivisions of Tps 11+12 N. R 18+19 E. T. 10 N. R 18 + 24 E. T. 12 N. R 27 E. T. 13 N. R 25 E. T. 15 N. R 24+25 + T. 17 N. R. 22, 23, 24 + 25 E. T. + S. R. W

Henry Herod, Chainman.

Thomas Donohue, Chainman.

....., Chainman.

....., Chainman.

Subscribed and sworn to before me this 3rd
day of December, 1882

A. E. Shoemaker

U. S. Commissioner, 3d Judicial District,
Arizona Territory.

10

Mr. John Phelan

do solemnly swear that ~~he~~ ^{me} will well and truly perform the duties of axemen, in the establishment of corners and other duties, according to instructions given ~~us~~ ^{me}, and to the best of ~~our~~ ^{my} skill and

ability, in the survey of Exterior lines of Tps 11+12 N R 18+19 E, T. 10 N R 18 E, T. 13 N R 18 E, T. 10 N R 24 E + T. 17 N R 24+25 E, + Retracings of a portion of the exteriors of Tps 13 N R 18+19 E, T. 12 N R 27 E, T. 13 N R 25 E + T. 17 N R 22 E and the subdivisions of Tps 11+12 N R 18+19 E, T. 10 N R 18+24 E, T. 12 N R 27 E, T. 13 N R 25 E, T. 15 N R 24+25 E, T. 17 N, R. 22, 23, 24, 25 E, N. & R.

John Phelan, Axeman.

....., Axeman.

Subscribed and sworn to before me this 3rd
day of December, 1882

A. E. Shoemaker

U. S. Commissioner, 3d Judicial District,
Arizona Territory.

I, George Coleman

, do solemnly swear that I will well and truly perform the duties of flagman, according to instructions given me, and to the best of

my skill and ability, in the survey of the Exterior lines of Tps 11+12 N. R. 18+19 E. T. 10 N. R. 18 E. T. 13 N. R. 18 E. T. 10 N. R. 24 E. + T. 17 N. R. 24+25 E. Retracings of a portion of the exterior of Tps 13 N. R. 18+19 E. T. 12 N. R. 27 E. T. 13 N. R. 25 T. 17 N. R. 22 E. and the subdivisions of Tps 11+12 R. 18+19 E. T. 10 N. R. 18+24 E. T. 12 N. R. 27 E. T. 13 N. R. 25 E. T. 15 N. R. 24+25 E. + Tps 17 N. R. 23. 24+25 E. 21+22 R. 20

George. Coleman, Flagman.

Subscribed and sworn to before me this 3rd day of December, 188 .

A. E. Shoemaker
C. B. Commissioner, 6d Judicial District,
Arizona Territory.

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Survey made with
a Burt's Improved Solar
Compass nearly new and
the first, late order made
by Otto Fennell of Cassel
Germany. This instrument
was adjusted by an
instrument which was
compared on the True
Meridian at Tucson
in May 1882, and found
to be correct.

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

No. 1392

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chains.

From the Cor. to Tps. 9 & 10 N. Rs. 23 & 24 E.,

which is a basalt stone, set firmly
in the ground, marked with 6
notches on each edge and with
a stone mound alongside;

from which

A Yellow Pine 28 ins. diam. bears $S. 14^{\circ} W$, 83 lks. dist.

marked T. 9 N. R. 23 E. S., 1 B. T.

A Yellow Pine 24 ins. diam. bears $N. 58^{\circ} W$, 176 lks. dist.

marked T. 10 N. R. 23 E. S., 36 B. T.

I run North on a random line on W. B. of Tp.

Va. $13^{\circ} 00'$ East.

I set temporary corners at every half mile, and at 6 miles

1.78 chs. I arrive at a point 116 lks. West. of Cor. to Tps,

10 and 11 N., Rs. 23 and 24 E.,

which is a basalt stone, set
firmly in the ground, marked with
6 notches on each edge and with
a mound of stone alongside;

From which corner I run.

W. B. T. 10 N. R. 24 E. G. & S. R. M.

hains,

S. 8' W. on a true line between sections 1 and 6.

Va. 13000' East.

Ascend.

27.59 Top of Spur, bears E. and W. and descend.

41.78 Set a basalt stone 17 x 10 x 6 ins., 11 ins. in the ground, for 1/4 Sec. Cor., marked 1/4 on W. face, and raised a mound of stone. alongside Pits impracticable.

67.68 Cross Wash, 35 lks. wide, Course S. 75/2 and ascend.

81.78 Set a basalt stone 18 x 14 x 6 ins. 12 ins. in the ground for Cor. to Secs. 1, 6, 7 and 12, marked with 5 notches on S. and 1 notch on 2 edges and raised a mound of stone. alongside Pits impracticable. Land mountainous

Soil 3rd rate.

Timber of Juniper.

Vegetation, bunchgrass.

W. B. T. 10 N. R. 24 E. G. & S. R. M.

ains.

N. 8' W. on a true line between sections 7 and 12.

Va. 13° 00' East.

Ascend.

12.58 Cross Road, bears E. 2nd W.

40.00 Set a basalt stone 18 x 14 x 8 ins., 12 ins. in the ground, for 1/4 Sec. Cor., marked 1/4 on W. face, and raised a mound of stone. alongside Pits impracticable.

from which

1 Juniper 24 ins. diam. bears N. 36° E, 27 lbs. dist. marked 1/4 S. B. T.

1 Juniper 16 ins. diam. bears S. 51° W. 103 lbs. dist. marked 1/4 S. B. T.

80.00 Set a basalt stone 18 x 12 x 8 ins. 12 ins. in the ground for Cor. to Secs. 7, 12, 18 and 18, marked 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 Juniper.

Vegetation, bunchgrass.

nains.

S. 8' W. on a true line between sections 13 and 18.

Va. 14° 15' East.

Ascend.

40.00 Set a sand stone 28 x 18 x 3 ins., 21 ins. in the ground, for 1/4 Sec. Cor., marked 1/4 on W. face, and raised a mound of stone. alongside Pits impracticable.

from which

1 Juniper 10 ins. diam. bears N. 55° E., 92 lbs. dist. marked 1/4 S. B. T.

1 Juniper 20 ins. diam. bears N. 31° W., 52 lbs. dist. marked 1/4 S. B. T.

80.00 Set a basalt stone 16 x 7 x 4 ins. 11 ins. in the ground for Cor. to Secs. 13, 18, 19 ^{and 24}, marked with 3 notches on S. and 3 notches on W. edges and raised a mound of stone. alongside Pits impracticable. Land rolling.

Soil 3rd rate.

Timber of Juniper.

Vegetation, bunchgrass.

chains.

S. 8' W. on a true line between sections 19 and 24

Va. 13° 20' East.

Ascend.

24.00 Top of Ridge, bears E. 90° W. and descend.

40.00 Set a basalt stone 17 x 10 x 4 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.

80.00 Set a basalt stone 16 x 10 x 4 ins., 11 ins. in the ground for Cor. to Secs. 19, 24, 25 & 30, marked with 2 notches on S. and 4 notches on E. edges and raised a mound of stone. alongside Pits impracticable.
Land mountainous

Soil 3rd rate.

Timber of Juniper.

Vegetation, bunchgrass.

Chains.

S. 8' W. on a true line between sections 25 and 30.

Va. 14° 16' East.

Descend.

40.00 Set a basalt stone 16 x 12 x 6 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.

7748 Cross Wash, 35 lks. wide, Course 4.62 and ascend.

80.00 Set a basalt stone 16 x 10 x 4 ins. 11 ins. in the ground for Cor. to Secs. 25, 30, 31 ^{quadr.} marked with) notch on S. and 5 notches on E edges and raised a mound of stone. alongside Pits impracticable.
Land mountainous

Soil 3rd rate.

Timber of Juniper.

Vegetation, bunchgrass

chains.

S. 8° W. on a true line between sections 31 and 36.

Va. 15° 00' East.

Descend.

40.00

Set a basaltstone 16 x 10 x 4 ins., 11 ins. in the ground, for $\frac{1}{4}$ Sec. Cor., marked $\frac{1}{4}$ on W. face, dug pits, 18 x 18 x 12 ins., N. and S. of stone $5\frac{1}{2}$ ft. dist., and raised a mound of earth $1\frac{1}{2}$ ft. high, $3\frac{1}{2}$ ft. base. alongside

from which

An Oak 10 ins. diam. bears S. 63° E. 64 lks. dist.
marked $\frac{1}{4}$ S. B. T.

An Oak 8 ins. diam. bears S. 37° W. 77 lks. dist.
marked $\frac{1}{4}$ S. B. T.

60.26

Cross Creek, 40 lks. wide, Course N. 63° W. and ascend.

81.00

The Cor. to Tps. 9 & 10 N. Rs. 23 & 24 E.
from which I started
and rolling.

Soil 3rd rate.

Timber of Pine and Oak.

Vegetation, bunchgrass.

December 26th 1882.

Chains.

Before proceeding further with the exteriors of this Tp., I made a change of 2 / 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 $34^{\circ} 47'$ North.
 From the ^{Standard} Cor. to Tps. 17 N. Rs. 24 & 25^E,
 which is a post, with marked stone, set firmly in the ground, marked S. C. T. 17 N. as N.

R. 25 E, S. 31 on E. and

R. 24 E, S. 36 on W. faces, with 6 notches on N. E. & W. faces and with a mound of stone, covered with earth, around post,

I run North on a random line on W. B. of Tp.

Va. $13^{\circ} 45'$ East.

I set temporary corners at every half mile, and at 6 miles, 62 chs. I arrive at a point 135 lks. West. of Cor. to Tps,

17 & 18 N. Rs. 24 & 25^E, which is a sandstone, set firmly in the

B. T. 17 N. R. 25 E. G. & S. R. M.

ns.

ground, marked with 6 notches
on each edge; with pits
lengthwise on each line N, S, E & W of
stone, 6 ft. dist., and a mound of earth
in good order, along side.

From which corner I run.

S. 10° W. on a true line between sections 1 and 6.

Va. 14° 15' East.

Descend.

18.22 Cross Wash, } lks. wide, Course N. 52° W. and ascend.

40.62 Set a sand stone 18 x 8 x 6 ins., 9
ins. in the ground, for $\frac{1}{2}$ Sec. Cor., marked $\frac{1}{2}$ on W.
face, dug pits, 18 x 18 x 12 ins., N. and S. of stone
 $5\frac{1}{2}$ ft. dist., and raised a mound of earth $1\frac{1}{2}$ ft. high,
 $3\frac{1}{2}$ ft. base. alongside

64.62 Top of Ridge, bears N. 80° W. $\frac{1}{2}$ S. 80° E. and descend.

80.62 Set a sand stone 16 x 12 x 7 ins. 11 ins. in
the ground for Cor. to Secs. 1, 6, } and 12, marked
with 5 notches 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. alongside
Land mountainous.

Soil 3rd rate

Vegetation, bunch grass.

ns.

S. 10' W. on a true line between sections 7 ^{and} 12
Va. 14° 15' East.

Descend.

40.00 Set a sand stone 13 x 8 x 7 ins., 9
ins. in the ground, for $\frac{1}{4}$ Sec. Cor., marked $\frac{1}{4}$ on $\overline{20}$
face, dug pits, 18 x 18 x 12 ins., N. and S. of stone
5 $\frac{1}{2}$ ft. dist., and raised a mound of earth 1 $\frac{1}{2}$ ft. high,
3 $\frac{1}{2}$ ft. base. alongside

0.00 Set a sand stone 13 x 12 x 6 ins. 9 ins. in
the ground for Cor. to Secs. 7, 12, 13 ^{and} 18, marked
with 4 notches on S. and 2 notches 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. alongside
Land rolling.

Soil 3rd rate

Vegetation, bunchgrass

W. B. T. 17 N. R. 25 E. G. & S. R. M.

ains.

S. 10' W. on a true line between sections 13 ^{and} 18.

Va. 14° 15' East.

Descend.

26.50 Cross Wash, 10 lks. wide, Course N 75° W and ascend.

40.00 Set a Sandstone 14 x 10 x 6 ins., 9
ins. in the ground, for $\frac{1}{4}$ Sec. Cor., marked $\frac{1}{4}$ on W.
face, dug pits, 18 x 18 x 12 ins., N. and S. of stone
5 $\frac{1}{2}$ ft. dist., and raised a mound of earth 1 $\frac{1}{2}$ ft. high,
3 $\frac{1}{2}$ ft. base, alongside80.00 Set a Sandstone 15 x 12 x 4 ins., 10 ins. in
the ground for Cor. to Secs. 13, 18, 19 ^{and} 24, marked
with 3 notches on S. and 3 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, alongside
Land rolling.Soil 3rd rate

Vegetation, bunch grass.

W. B. T. 17 N R. 25 E. G. & S. R. M.

ains.

S. 10' W. on a true line between sections 19 ^{and} 24.

Var. 14° 15' East.

Ascend.

18.50 Top of Ridge, bears E. $\frac{1}{2}$ W. and descend.

40.00 Set a Sandstone 14 x 11 x 6 ins., 9 ins. in the ground, for $\frac{1}{4}$ Sec. Cor., marked $\frac{1}{4}$ on W. face, dug pits, 18 x 18 x 12 ins., N. and S. of stone $5\frac{1}{2}$ ft. dist., and raised a mound of earth $1\frac{1}{2}$ ft. high, $3\frac{1}{2}$ ft. base.

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. 17 N. S. 19, on N. E., R. 25 E, S. 30 on S. E., S. 25 on S. W. and S. 24 on N. W. face, with 2 notches on S. and 4 notches on 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 rolling.

Soil 3rd rate

Vegetation, bunchgrass.

N. B. T. 17 N. R. 25 E. G. & S. R. M.

S. 10° W. on a true line between sections 25 ^{and} 30.

Va. 14° 10' East.

Descend.

8.00 Cross Wash, 17 lks. wide, Course W. and ascend.

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.

5.00 Top of Ridge, bears N. 70° E. ^{and} S. 70° W. and descend.

80.00 Set a sand stone 6 x 12 x 11 ins., 11 ins. in the ground for Cor. to Secs. 25, 30, 31 ^{and} 36, marked with / notch on S. and \ 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. alongside
Land mountainous.

Soil 3rd rate

Vegetation, bunchgrass.

ains.

S. 10' W. on a true line between sections 31 and 36.

Va. 14° 15' 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
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.

Standard
80.00 The Cor. to Tps. 17 N. Rs. 24 & 256.
from which I started
land rolling.

Soil 3rd rate

Vegetation, bunchgrass.

February 16th 1883.

W. B. T. 17 N. R. 24 E. G. & S. R. M.

ains.

Standard
From the Cor. to Tps. 17 N. Rs. 23 & 24 E,

which is a sandstone, set firmly in the ground, marked with 6 notches on N. E. and W. edges; with pits, crosswise on each line, N. E. and W. of stone, 6 ft. dist., and a mound of earth, in good order, alongside,

I run North on a random line on W. B. of Tp. 17 N
Va. $13^{\circ} 47'$ East.

I set temporary corners at every half mile, and at 6 miles
90 chs. I arrive at a point 58 lks. West. of Cor. to Tps,

17th & 18th N., R. 23rd and 24th E, which is a sandstone, set firmly in the ground, marked with 6 notches on each edge and with a mound of stone, in good order, alongside.

From which corner I run,

S. 4' W. on a true line between sections 1st and 6.

Va. $13^{\circ} 47'$ East.

Ascend.

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W. B. T. 17 N R. 24 E. G. & S. R. M.

Chains.

17.90 Top of Bluff, bears E. $\frac{1}{4}$ N. W. and descend.

37.90 Enter Wash, course N. E.

40.90 Set a sand stone 20 x 10 x 10 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.

49.90 Leave Wash, course N. E. and ascend.

64.90 Top of Spur, bears N. E. $\frac{1}{4}$ S. W. and descend.

75.90 Enter Wash, course N. E.

80.90 Set petrified wood, 20 x 20 x 16 ins. 15 ins. in
the ground for Cor. to Secs. 1, 6, 7 $\frac{1}{4}$ and 12, marked
with 5 notches on S. and 1 notch on ~~R~~ edges and
raised a mound of stone. alongside Pits impracticable.
Land mountainous.

Soil 3^m rate

Vegetation, bunchgrass

C.B. T. 17 N. R. 24 E. G. & S. R. M.

ains.

S. 4' W. on a true line between sections 7th and 12.

Va. 13° 47' East.

- 6.00 Learn Wash course N. E. and ascend.
- 10.50 Top of Hill bears N. ^W S. and descend.
- 40.00 Set a Sand stone 12 x 10 x 10 ins., 8 ins. in the ground, for $\frac{1}{4}$ Sec. Cor., marked $\frac{1}{4}$ on W. face, dug pits, 18 x 18 x 12 ins., N. and S. of stone 5 $\frac{1}{2}$ ft. dist., and raised a mound of earth 1 $\frac{1}{2}$ ft. high, 3 $\frac{1}{2}$ ft. base. alongside low Sag and ascend.
- 80.00 Set a Sand stone 14 x 12 x 10 ins. 9 ins. in the ground for Cor. to Secs. 7, 12, 18th and 18, marked with 4 notches on S. and 2 notches 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. alongside
- Land hilly
- Soil 3^m rate
- Vegetation, bunch grass.

W. B. T. 17 N. R. 24 E. G. & S. R. M.

ains.

S. 4' W. on a true line between sections 13 and 18.

Va. 13° 47' East.

Ascend.

6.00 Top of Hill bears N. E. and S. W. and descend.

27.00 Over rolling land.

40.00 Set a Sand stone 18 x 10 x 5 ins., 12 ins. in the ground, for 1/2 Sec. Cor., marked 1/2 on W. face, dug pits, 18 x 18 x 12 ins., N. and S. of stone 5 1/2 ft. dist., and raised a mound of earth 1 1/2 ft. high, 3 1/2 ft. base. alongside

80.00 Set a Sand stone 20 x 10 x 8 ins., 15 ins. in the ground for Cor. to Secs. 13, 18, 19 and 24, marked 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. alongside

Land rolling.

Soil 3rd rate

Vegetation, bunchgrass

W. B. T. 17 N. R. 24 E. G. & S. R. M.

Chains.

S. H. W. on a true line between sections 7 ^{and} 12.Va. $13^{\circ} 47'$ East.

- 6.00 Leave Wash, come N. E. and ascend.
- 10.50 Top of Hill bears N. ^{W.} S. and descend.
- 40.00 Set a Sand stone $12 \times 10 \times 10$ ins., 8 ins. in the ground, for $\frac{1}{4}$ Sec. Cor., marked $\frac{1}{4}$ on W. face, dug pits, $18 \times 18 \times 12$ ins., N. and S. of stone $5\frac{1}{2}$ ft. dist., and raised a mound of earth $1\frac{1}{2}$ ft. high, $3\frac{1}{2}$ ft. base. alongside low Sag and ascend.
- 80.00 Set a Sand stone $14 \times 12 \times 10$ ins. 9 ins. in the ground for Cor. to Secs. 7, 12, 18 ^{and} 18, marked with 4 notches on S. and 2 notches on N. edges, dug pits $18 \times 18 \times 12$ 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. alongside
- Land hilly
- Soil 3 rate
- Vegetation, bunch grass.

W. B. T. 17 N. R. 24 E. G. & S. R. M.

Chains.

S. 4' W. on a true line between sections 13 and 18.

Va. $13^{\circ}47'$ East.

Ascend.

6.00 Top of Hill bears N. E. and S. W. and descend.

27.00 Over rolling land.

40.00 Set a Sand stone $18 \times 10 \times 5$ ins., 12 ins. in the ground, for $\frac{1}{4}$ Sec. Cor., marked $\frac{1}{4}$ on W. face, dug pits, $18 \times 18 \times 12$ ins., N. and S. of stone $5\frac{1}{2}$ ft. dist., and raised a mound of earth $1\frac{1}{2}$ ft. high, $3\frac{1}{2}$ ft. base. alongside

80.00 Set a Sand stone $20 \times 10 \times 8$ ins., 15 ins. in the ground for Cor. to Secs. 13, 18, 19 and 24, marked with 3 notches on S. and 3 notches on N. edges, dug pits $18 \times 18 \times 12$ 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. alongside

Land rolling.

Soil ~~3rd~~ rate

Vegetation, bunchgrass

W. B. T. 17 N. R. 24 E. G. & S. R. M.

ins.

S. 4' W. on a true line between sections 19th & 24th
 Va. 13° 47' East.

Over rolling land.

40.00

Set a Sand stone 12 x 10 x 4 ins., 8
 ins. in the ground, for $\frac{1}{4}$ Sec. Cor., marked $\frac{1}{4}$ on W,
 face, dug pits, 18 x 18 x 12 ins., N. and S. of stone
 5 $\frac{1}{2}$ ft. dist., and raised a mound of earth 1 $\frac{1}{2}$ ft. high,
 3 $\frac{1}{2}$ ft. base. alongside

80.00

Set a Sand stone 4 x 12 x 10 ins. 9 ins. in
 the ground for Cor. to Secs. 17, 24, 25 & 30, marked
 with 2 notches on S. and 4 notches on N edges and
 raised a mound of stone. alongside Pits impracticable.
 Land rolling.

Soil 3rd rats

Vegetation, bunch grass.

Chains.

S. 4' W. on a true line between sections 25 ^{and} 30

Va. 13° 47' East.

Over rolling land.

40.00 Set a Sand stone 14 x 12 x 10 ins., 9
ins. in the ground, for $\frac{1}{4}$ Sec. Cor., marked $\frac{1}{4}$ on W.
face, dug pits, 18 x 18 x 12 ins., N. and S. of stone
5 $\frac{1}{2}$ ft. dist., and raised a mound of earth 1 $\frac{1}{2}$ ft. high,
3 $\frac{1}{2}$ ft. base. alongside

68.00 Top of Bluff, bears E. $\frac{1}{2}$ W. and descend.

80.00 Set a Sand stone 20 x 16 x 4 ins. 15 ins. in
the ground for Cor. to Secs. 25, 30, 31 ^{and} 36, marked
with / notch on S. and S notches on N edges and
raised a mound of stone. alongside Pits impracticable.
Land rolling. and mountainous.

Soil 3^m ^{to} 4^{to} rate

Vegetation, bunchgrass

W. B. T. 17 N. R. 24 E. G. & S. R. M.

Chains.

S. 41' W. on a true line between sections 31 ^{and 36}
 Va. 18° 47' East.

Descend.

- .20 Cross Wash, 50 lks. wide, Course S. W. and ascend.
- 30.00 Top of Hill bears N. E. ^{and} S. W. and descend.
- 38.44 Cross Wash, 400 lks. wide, Course S. W. and ascend.
- 40.00 Set a Sandstone 30 x 12 x 4 ins., 15 ins. in the ground, for $\frac{1}{4}$ Sec. Cor., marked $\frac{1}{2}$ on W. face, dug pits, 18 x 18 x 12 ins., N. and S. of stone $5\frac{1}{2}$ ft. dist., and raised a mound of earth $1\frac{1}{2}$ ft. high, $3\frac{1}{2}$ ft. base, alongside
- 43.50 Top of Hill bears N. E. ^{and} S. W. and descend.
- 49.38 Cross Wash, 100 lks. wide, Course S. W. and ascend.
- 80.00 ^{Standard} The Cor. to Tps. 17 N. Rs. 23 & 24 E.

Land hilly from which I started
 Soil 3rd rate

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

February 26th 1883.

S. B. T. 10 N. R. 19 E. G. & S. R. M.

Chains.

Before proceeding further with the exteriors of this Tps., I made a change of 36 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° 11' North. From the Cor. to Tps. 9 & 10 N. Rs. 19 & 20E, which is a sandstone, set firmly in the ground, marked with 6 notches on each edge and with a mound of stone alongside, from which

Yellow Pine 24 ins. diam. bears S. 42° E, 68 lks. dist. marked T. 9 N. R. 20E, S., 6 B. T.

A Yellow Pine 14 ins. diam. bears N. 25° E, 49 lks. dist. marked T. 10 N. R. 20E, S., 31 B. T.

An Oak 8 ins. diam. bears S. 88° W, 86 lks. dist. marked T. 9 N., R. 19E, S., 1 B. T.

I run,

West. on a true line between sections 1 and 36.

Va. 14° 30' East.

S. B. T. 10 N. R. 19 E. G. & S. R. M.

Chains.

Ascend.

20.00 Top of Spur, bears $N. \text{ and } S.$ and descend.29.36 Cross Wash, 15 lks. wide, Course $S. E.$ and ascend.40.00 Set a sand stone $22 \times 9 \times 7$ ins., 16 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 White Oak 8 ins. diam. bears $S. 25^{\circ} W.$, 30 lks. dist. marked $\frac{1}{4}$ S. B. T.A Yellow Pine 24 ins. diam. bears $N. 47^{\circ} E.$, 9 lks. dist. marked $\frac{1}{4}$ S. B. T.66.16 Top of Ridge, bears $N. E. \text{ and } S. W.$ and descend.80.00 Set a sand stone $16 \times 8 \times 7$ ins. 11 ins. in the ground for Cor. to Secs. 1, 2, 35 and 36 marked with 5 notch 20 on $N.$ and 1 notch on E. edges and raised a mound of stone. alongside Pits impracticable. from whichA Yellow Pine 5 ins. diam. bears $S. 35^{\circ} W.$, 91 lks. dist. marked T. 9 $N.$, R. 19 $E.$, S., 2 B. T.A White Oak 20 ins. diam. bears $N. 51^{\circ} W.$, 70 lks. dist. marked T. 10 $N.$, R. 19 $E.$, S., 35 B. T.

S. B. T. 10 N. R. 19 E. G. & S. R. M.

Pg 25 NON EXISTANT

Chains.

A White Oak 5 ins. diam. bears $N. 30^{\circ} E$, 75 lks. dist.

marked T. 10 N., R. 19 E., S., 36 B. T.

No other trees within limits.

Land mountainous

Soil 4th rate.Timber of Pine, Oak and Juniper
Vegetation, bunch grass.West. on a true line between sections 2nd and 3rd.Va. $14^{\circ} 00'$ East.

Descend.

12.70 Cross Wash, 17 lks. wide, Course $S. 39^{\circ} W$ and ascend.22.12 Top of Spur, bears $N. 30^{\circ} E$. $E. S. 30^{\circ} W$ and descend.40.00 Set a Sand stone $24 \times 20 \times 6$ ins., 18
ins. in the ground, for $\frac{1}{2}$ Sec. Cor., marked $\frac{1}{2}$ on N .
face, and raised a mound of stone. Pits
impracticable.

from which

A Yellow Pine 30 ins. diam. bears $N. 72^{\circ} E$, 37 lks. dist.
marked $\frac{1}{2}$ S. B. T.A Yellow Pine 20 ins. diam. bears $S. 43^{\circ} E$, 46 lks. dist.
marked $\frac{1}{2}$ S. B. T.

S. B. T. 10 N. R. 19 E. G. & S. R. M.

Chains,

42.50 Cross Wash, 12 lks. wide, Course $\text{N. } 10^{\circ} \text{E}$ and ascend.59.00 Top of Ridge, bears N. and S. and descend.80.00 Set a Sandstone $20 \times 14 \times 9$ ins. 15 ins. in the ground for Cor. to Secs. 2, 3, 34 $\text{and } 35$, marked with 4 notches on W and 2 notches on E . edges and raised a mound of stone. alongside Pits impracticable. from whichA White Oak 18 ins. diam. bears $\text{N. } 33^{\circ} \text{E}$, 49 lks. dist. marked T. 10 N , R. 19 E , S., 35 B. T.A White Oak 12 ins. diam. bears $\text{S. } 51^{\circ} \text{W}$, 38 lks. dist. marked T. 9 N , R. 19 E , S., 3 B. T.A Yellow Pine 36 ins. diam. bears $\text{N. } 60^{\circ} \text{W}$, 45 lks. dist. marked T. 10 N , R. 19 E , S., 34 B. T.

No other trees within limits.

Land mountainous.

Soil H to rate

Vegetation, bunchgrass.

Heavy timber of Pine and Oak.

Chains.

West. on a true line between sections 3 and 34.

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

Descend.

1.55 Cross Wash, 10 lks. wide, Course $S. 10^{\circ} W.$ and ascend.

31.09 Top of Ridge, bears $N. 40^{\circ} E.$ $\frac{1}{2}$ $S. 40^{\circ} W.$ and descend.

40.00 A Yellow Pine 8 ins. diam. which I marked $\frac{1}{4}$ S. on
N. face, for $\frac{1}{4}$ Sec. Cor.; from which

A Yellow Pine 6 ins. diam. bears $S. 75^{\circ} E.$, 18 lks. dist.
marked $\frac{1}{4}$ S. B. T.

A Yellow Pine 8 ins. diam. bears $S. 60^{\circ} W.$, 14 lks. dist.
marked $\frac{1}{4}$ S. B. T.

43.60 Cross Wash, 18 lks. wide, Course $N. 20^{\circ} W.$ and ascend.

62.00 Top of Spur, bears $N. 30^{\circ} W.$ $\frac{1}{2}$ $S. 30^{\circ} E.$ and descend.

76.00 Cross Wash, 19 lks. wide, Course $N. W.$ and ascend.

80.00 Set a sand stone $25 \times 10 \times 7$ ins. 17 ins. in
the ground for Cor. to Secs. 3, 4, 33 and 34, marked
with 3 notch ∞ on W and 3 notch ∞ on E. edges and
raised a mound of stone. alongside Pits impracticable.
from which

A Yellow Pine 5 ins. diam. bears $N. 60^{\circ} E.$, 31 lks. dist.
marked T. 10 N. R. 19 E. S., 34 B. T.

S. B. T. 10 N. R. 19 E. G. & S. R. M.

Chains.

A Yellow Pine 8 ins. diam. bears S. 65° E, 7 lbs. dist.

marked T. 9 N., R. 19 E., S., 3 B. T.

A Yellow Pine 10 ins. diam. bears S. 38° W, 45 lbs. dist.

marked T. 9 N., R. 19 E., S., 4 B. T.

A White Oak 7 ins. diam. bears N. 10° W, 18 lbs. dist.

marked T. 10 N., R. 19 E., S., 33 B. T.

Land mountainous

Soil 4 ^{cts} rate.

Heavy timber of Pine, Oak and Juniper.

Vegetation, bunchgrass.

S. B. T. 10 N. R. 19 E. G. & S. R. M.

Chains.

West on a true line between sections 4 ^{and} 33.Va. $14^{\circ} 15'$ East.

Ascend.

24.14 Top of Spur, bears N. ^{and} S. and descend.39.70 Cross Wash, 25 lks. wide, Course S. 40° W. and ascend.40.00 Set a sand stone $17 \times 14 \times 8$ 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 28 ins. diam. bears N. 20° E, 71 lks. dist. marked $\frac{1}{2}$ S. B. T.A Yellow Pine 21 ins. diam. bears S. 70° E, 50 lks. dist. marked $\frac{1}{2}$ S. B. T.64.50 Top of Spur, bears N. 20° E. ^{and} S. 20° W. and descend.80.00 Set a sand stone $17 \times 13 \times 6$ ins., 11 ins. in the ground for Cor. to Secs. 4, 5, 32 ^{and} 33, marked with 2 notches on N. and 4 notches on E. edges and raised a mound of stone. alongside Pits impracticable.

from which

A Yellow Pine 7 ins. diam. bears S. 74° E, 52 lks. dist. marked T. 94, R. 19 E, S. 4 B. T.

Chains.

A Yellow Pine 9 ins. diam. bears $S. 23^{\circ} W$, 46 lks. dist.
marked T. 7 $\frac{1}{2}$, R. 19E, S., 5 B. T.

A Yellow Pine 14 ins. diam. bears $E. 60^{\circ} W$, 135 lks. dist.
marked T. 10 $\frac{1}{2}$, R. 19E, S., 32 B. T.

No other trees within limits.

Land mountainous

Soil 4th rate.

Heavy timber of Pine and Juniper.

Vegetation, bunch grass.

West. on a true line between sections 5 and 32.

Va. $14^{\circ} 15'$ East.

Descend.

- 9.60 Cross Wash, 24 lks. wide, Course $S.$ and ascend.
23.50 Top of Spur, bears $N. \frac{1}{2} S.$ and descend.
32.30 Cross Wash, 16 lks. wide, Course $S. 10^{\circ} E.$ and ascend.
40.00 Set a Sand stone $18 \times 18 \times 10$ ins., 12
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
from which

Chains.

21 Yellow Pine 12 ins. diam. bears $N. 45^{\circ} E$, 44 lbs. dist.
marked $\frac{1}{2}$ S. B. T.

21 Yellow Pine 10 ins. diam. bears S , 6 lbs. dist.
marked $\frac{1}{2}$ S. B. T.

48.58 Top of Ridge, bears $N. 45^{\circ} E$ $\frac{1}{2}$ $N. 45^{\circ} W$ and descend.

69.95 Cross Wash, 21 lbs. wide, Course $N. 15^{\circ} W$ and ascend.

80.00 Set a sand stone $16 \times 8 \times 4$ ins. 11 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

21 Yellow Pine 13 ins. diam. bears $N. 62^{\circ} E$, 50 lbs. dist.
marked T. 10 N, R. 19 E, S., 32 B. T.

21 Yellow Pine 11 ins. diam. bears $S. 60^{\circ} E$, 23 lbs. dist.
marked T. 9 N, R. 19 E, S., 5 B. T.

21 Yellow Pine 12 ins. diam. bears $S. 65^{\circ} W$, 40 lbs. dist.
marked T. 9 N, R. 19 E, S., 6 B. T.

21 Yellow Pine 14 ins. diam. bears $N. 50^{\circ} W$, 27 lbs. dist.
marked T. 10 N, R. 19 E, S., 31 B. T.

Land mountainous

Soil 4 ~~000~~ rate.

Heavy timber of Pine and Juniper.

Vegetation, bunchgrass.

S. B. T. 10 N. R. 19 E. G. & S. R. M.

Chains.

West. on a true line between sections 6th & 31.Va. $14^{\circ}07'$ East.

Descend.

- 6.60 Cross Wash, 16 lks. wide, Course N. N. W. and ascend.
- 20.00 Top of Spur, bears N. 7° W. E. S. 7° E. and descend.
- 31.40 Cross Wash, 17 lks. wide, Course N. S. W. and ascend.
- 33.00 Top of Spur, bears N. 10° E. E. S. 10° W. and descend.
- 36.00 Cross Wash, 12 lks. wide, Course N. and ascend.
- 40.00 Set a Sandstone $18 \times 14 \times 10$ ins., 12 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
- 1 Yellow Pine 15 ins. diam. bears N. 67° E., 23 lks. dist. marked $\frac{1}{2}$ S. B. T.
- 1 Yellow Pine 15 ins. diam. bears S. 3° W., 14 lks. dist. marked $\frac{1}{2}$ S. B. T.
- 58.75 Cross Wash, 60 lks. wide, Course S. 40° W. and ascend.
- 65.18 Top of Spur, bears N. 30° E. E. S. 30° W. and descend.
- 75.16 Cross Wash, 35 lks. wide, Course S. 58° E. and ascend.
- 79.51 No allow for convergency and

Chains.

Set a sand stone 18 x 11 x 5 ins. 12 ins. in the ground, for Cor. to Tps. 9 and 10 N R's 18 and 19 E., marked with 6 notches on each edge, and raised a mound of stone. ^{alongside} Pits impracticable.

From which

A Yellow Pine 16 ins. diam. bears $N. 35^{\circ} E$, 30 lbs. dist. marked T. 10 N, R. 19 E, S., 31 B. T.

A Yellow Pine 16 ins. diam. bears $S. 44^{\circ} E$, 17 lbs. dist. marked T. 9 N, R. 19 E, S., 6 B. T.

A Yellow Pine 16 ins. diam. bears $S. 64^{\circ} W$, 24 lbs. dist. marked T. 9 N, R. 18 E, S., 1 B. T.

No other trees within limits.

Land mountainous

Soil ~~4th~~ rate.

Heavy timber of Pine, Oak and Juniper.

Vegetation, bunchgrass.

March 29th 1883.

W. B. T. 10 N. R. 19 E. G. & S. R. M.

Chains.

From the Cor. to Tps. 9 & 10 N. Rs. 18 & 19 E,
 just established
 Run,

North on a true line between sections 31 and 36,

Va. $14^{\circ}12'$ East.

Descend.

- 3.30 Cross Wash, 16 lks. wide, Course S. E. and ascend.
- 32.00 Top of Spur, bears E. $\frac{1}{2}$ W. and descend.
- 40.00 Set a lime stone $19 \times 12 \times 8$ ins., 14 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.
- 49.00 Cross Wash, 18 lks. wide, Course S. 70° W. and ascend.
- 63.00 Top of Ridge, bears N. 80° E. $\frac{1}{2}$ S. 80° W. and descend.
- 80.00 Set a sand stone $18 \times 12 \times 10$ ins. 2 ins. in the ground for Cor. to Secs. 25, 30, 31 & 36 marked with / notch on S. and σ notch EO on ~~W~~ edges and raised a mound of stone. alongside Pits impracticable.
 from which
- A Yellow Pine 8 ins. diam. bears S. 73° E., 31 lks. dist. marked T. 10 N., R. 19 E., S., 31 B. T.
- A Yellow Pine 6 ins. diam. bears S. 30° W., 20 lks. dist. marked T. 10 N., R. 18 E., S., 36 B. T.

W. B. T. 10 N. R. 19 E. G. & S. R. M.

Chains.

1 Yellow Pine 12 ins. diam. bears $N. 10^{\circ} W.$, 113 lks. dist.

marked $T. 10 N.$, $R. 18 E.$, $S.$, $25 B. T.$

Land mountainous

Soil H th rate.

Timber of Pine, Oak and Juniper.

Vegetation, bunchgrass.

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

$Va. 14^{\circ} 30'$ East.

Descend.

5.60 Cross Wash, 16 lks. wide, Course $S. 60^{\circ} W.$ and ascend.

15.10 Top of Spur, bears $N. 43^{\circ} E.$ $W. 43^{\circ} W.$ and descend.

39.50 Cross Wash, 25 lks. wide, Course $S. 30^{\circ} W.$ and ascend.

40.00 Set a sand stone $16 \times 12 \times 4$ ins., 11 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

1 Yellow Pine 6 ins. diam. bears $N. 57^{\circ} E.$, 30 lks. dist. marked $\frac{1}{2}$ S. B. T.

1 Yellow Pine 6 ins. diam. bears $S. 24^{\circ} W.$, 10 lks. dist. marked $\frac{1}{2}$ S. B. T.

W. B. T. 10 N R. 19 E. G. & S. R. M.

chains.

48.60 Cross Wash, 20 lks. wide, Course $S. 27^{\circ} E$ and ascend.

- 80.00 A rock in place, $60 \times 48 \times 36$ ft. above the ground, which I marked with X at exact cor. point ^{and} with 2 notches on E. & 4 notches on N. Faces, for cor. to sec. 19, 24, 25 & 30; from which
- 1 Yellow Pine 8 ins. diam. bears $N. 64^{\circ} E$, 59 lks. dist. marked T. 10N, R. 19E, S., 19 B. T.
- 2 Yellow Pine 6 ins. diam. bears $S. 21^{\circ} E$, 22 lks. dist. marked T. 10N, R. 19E, S., 30 B. T.
- 3 Fir 10 ins. diam. bears $S. 68^{\circ} W$, 39 lks. di. marked T. 10N, R. 18E, S., 25 B. T.

No other trees within limits.

Land mountainous

Soil ~~400~~ rate.

Heavy timber of Pine, Fir and Juniper.

Vegetation, bunchgrass.

chains.

North on a true line between sections 19^W 24.
Va. 14° 20' East.

Ascend.

40.00 Set a sand stone 18 x 12 x 9 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 Yellow Pine 30 ins. diam. bears S. 35° E., 27 lbs. dist. marked $\frac{1}{2}$ S. B. T.

A White Oak 8 ins. diam. bears S. 67° W., 12 lbs. dist. marked $\frac{1}{2}$ S. B. T.

60.37 Head of Ravine, Course S. 10° W. and ascend

77.17 Top of Spur, bears N. 27° E. ^{or} V. 27° W. and descend.

80.00 Set a sand stone 16 x 10 x 8 ins. 11 ins. in the ground for Cor. to Secs. 13, 18, 19 & 24, marked with 3 notches on S. and 3 notches on ~~W~~ edges and raised a mound of stone. alongside Pits impracticable.

from which

A Yellow Pine 30 ins. diam. bears S. 16° W., 43 lbs. dist. marked T. 10 N. R. 18 E., S., 24 B. T.

A Yellow Pine 24 ins. diam. bears S. 58° E., 88 lbs. dist. marked T. 10 N. R. 19 E., S., 19 B. T.

ains.

A White Oak 8 ins. diam. bears $N. 20^{\circ} E.$, 48 lks. dist.
marked T. 10 N., R. 19 E., S., 18 B. T.

No other trees within limits.

Land mountainous

Soil 4th rate.

Heavy timber of Pine, Oak and Juniper.

Vegetation, bunchgrass.

North on a true line between sections 13 and 18.

Va. $14^{\circ} 10'$ East.

Descend.

8.56 Cross Wash, 8 lks. wide, Course $S. 30^{\circ} W.$ and ascend.

25.00 Top of Ridge, bears $N. 60^{\circ} E.$ $2/3 S. 60^{\circ} W.$ 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 8 ins. diam. bears $N. 70^{\circ} E.$, 14 lks. dist.
marked $\frac{1}{4}$ S. B. T.

A Yellow Pine 10 ins. diam. bears $N. 65^{\circ} W.$, 40 lks. dist.
marked $\frac{1}{4}$ S. B. T.

W. B. T. 10 N R. 19 E. G. & S. R. M.

ains.

54.70 Cross Wash, 10 lks. wide, Course S. 60° W and ascend.

80.00 Set a sand stone 14 x 10 x 7 ins. 9 ins. in the ground for Cor. to Secs. 7, 12, 13 & 18, marked with 4 notch 50 on S. and 2 notches on ~~W~~ edges and raised a mound of stone. alongside Pits impracticable. from which

A White Oak 20 ins. diam. bears S. 39° W, 48 lks. dist. marked T. 10 N, R. 18 E, S., 13 B. T.

A Juniper 16 ins. diam. bears S. 48° E, 99 lks. dist. marked T. 10 N, R. 19 E, S., 18 B. T.

A Juniper 18 ins. diam. bears N. 32° W, 87 lks. dist. marked T. 10 N, R. 18 E, S., 12 B. T.

No other trees within limits.

Land mountainous

Soil 4 ^{cc} rate.

Heavy timber of Pine and Juniper.

Vegetation, bunchgrass.

W. B. T. 10 N. R. 19 E. G. & S. R. M.

Chains.

North on a true line between sections 7 ^{and} 12.

Va. 14° 15' East.

Ascend.

9.30 Cross Wash, 9 lks. wide, Course S. 60° W. and ascend.

40.00 Set a Sand stone 14 x 10 x 8 ins., 7 ins. in the ground, for 1/4 Sec. Cor., marked 1/4 on W. face, and raised a mound of stone. alongside Pits impracticable.

from which

A Live Oak 5 ins. diam. bears S. 63° E., 48 lks. dist. marked 1/4 S. B. T.

A Live Oak 7 ins. diam. bears S. 57° W., 44 lks. dist. marked 1/4 S. B. T.

47.00 Top of Ridge, bears N. 50° W. & S. 50° E. and descend.

80.00 Set a Sand stone 16 x 12 x 10 ins. 11 ins. in the ground for Cor. to Secs. 1, 6, 7 ^{and} 12, marked with 5 notch ∞ on S. and / notch on E. edges and raised a mound of stone. alongside Pits impracticable.

from which

A Yellow Pine 10 ins. diam. bears S. 53° E., 84 lks. dist. marked T. 104, R. 19 E, S., 7 B. T.

A Yellow Pine 16 ins. diam. bears N. 61° W., 43 lks. dist. marked T. 104, R. 18 E, S. 1 B. T.

W. B. T. 10 N. R. 19 E. G. & S. R. M.

Chains.

A White Oak 6 ins. diam. bears S. 40° W, 50 lks. dist.
marked T. 10 M, R. 18 G, S., 12 B. T.

No other trees within limits.

Land mountainous

Soil 4th rate.

Heavy timber of Pine, Oak and Juniper.
Vegetation, bunchgrass.



North on a true line between sections 1 and 6.

Va. 14° 15' East.

Descend.

18.85 Cross Wash, 10 lks. wide, Course N. 70° E and ascend.

40.00 Set a sand stone 18 x 12 x 10 ins., 12
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 White Oak 12 ins. diam. bears S. 82° E, 32 lks. dist.
marked 1/2 S. B. T.

A White Oak 6 ins. diam. bears N. 70° W, 20 lks. dist.
marked 1/2 S. B. T.

W. B. T. 10 N. R. 19 E. G. & S. R. M.

Chains.

52.08 Top of Spur, bears N. 30° E. and S. 30° W. and descend.

80.00 Set a sand stone 19 x 12 x 8 ins. 14 ins. in the ground, for Cor. to Tps. 10 and 11 N. R's 18 and 19 E., marked with 6 notches on each edge, and raised a mound of stone. Pits impracticable.

from which

A White Oak 6 ins. diam. bears N. 44 W., 31 lks. dist. marked T. 11 N., R. 18 E., S., 36 B. T.

A White Oak 8 ins. diam. bears S. 30° E., 70 lks. dist. marked T. 10 N., R. 19 E., S., 6 B. T.

A Yellow Pine 24 ins. diam. bears S. 45 W., 50 lks. dist. marked T. 10 N., R. 18 E., S., 1 B. T.

A Yellow Pine 40 ins. diam. bears N. 40° E., 85 lks. dist. marked T. 11 N., R. 19 E., S., 31 B. T.

Land mountainous

Soil 4th rate.

Heavy timber of Pine, Oak and Juniper.

Vegetation, bunch grass.

March 30th - 1883.

Chains.

Before proceeding further with the exteriors of this Tps. 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 $34^{\circ} 16'$ North.

From the Cor. to Tps. 10 & 11 N. Rs. 18 & 19,
 just established -
 run,

East. on a true line between sections 6 and 31.

Va. $14^{\circ} 15'$ East.

Ascend.

18.85 Top of Spur, bears $N. 43^{\circ} E.$ $44^{\circ} W.$, and descend.

39.01 Set a sand stone $16 \times 12 \times 9$ 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 $N. 45^{\circ} E.$, 45 lks. dist. marked $\frac{1}{2}$ S. B. T.

A White Oak 6 ins. diam. bears $S. 63^{\circ} W.$, 20 lks. dist. marked $\frac{1}{2}$ S. B. T.

N. B. T. 10 N. R. 19 E. G. & S. R. M.

Chains.

44.85 Cross Wash, 18 lks. wide, Course $N.44^{\circ}E$ and ascend.

66.57 Top of Spur, bears $N.36^{\circ}E$. $N.36^{\circ}W$ and descend.

72.21 Cross Wash, 20 lks. wide, Course $N.20^{\circ}E$ and ascend.

$\frac{1}{2}$ Co. allowed for emergency, at

79.01 Set a Sand stone $18 \times 12 \times 5$ ins. 12 ins. in
the ground for Cor. to Secs. 5, 6, 31 $N. 32$ marked
with / notch on N and 5 notches on E. edges and
raised a mound of stone. alongside Pits impracticable.
from which

A Yellow Pine 18 ins. diam. bears $N.63^{\circ}E$, 49 lks. dist.
marked T. 11 N., R. 19 E., S. 32 B. T.

A Yellow Pine 8 ins. diam. bears $S.78^{\circ}E$, 57 lks. dist.
marked T. 10 N., R. 19 E., S. 5 B. T.

A Yellow Pine 16 ins. diam. bears $S.67^{\circ}W$, 56 lks. dist.
marked T. 10 N., R. 19 E., S. 6 B. T.

A Yellow Pine 16 ins. diam. bears $N.48^{\circ}W$, 23 lks. dist.
marked T. 11 N., R. 19 E., S. 31 B. T.

Land mountainous

Soil 3^m rate.

Heavy timber of Oak and Pine.

Vegetation, bunchgrass.

T. 10 N. R. 19 E. G. & S. R. M.

Chains.

East. on a true line between sections 5th & 32.
Va. 14° 15' East.

Ascend.

26.58 Top of Spur, bears N. 12° E. W. 12° W. and descend.

36.89 Cross Wash, 23 lks. wide, Course S. 80° E. and ascend.

40.00 Set a sandstone 18 x 12 x 10 ins., 12 ins. in the ground, for 1/2 Sec. Cor., marked 1/2 on N. face, and raised a mound of stone. alongside Pits impracticable.
from which

A Yellow Pine 22 ins. diam. bears N. 25° E, 20 lks. dist. marked 1/2 S. B. T.

A Yellow Pine 10 ins. diam. bears S. 35° W, 20 lks. dist. marked 1/2 S. B. T.

49.00 Top of Spur, bears N. 21° W. S. 21° E. and descend.

61.10 Cross Wash, 14 lks. wide, Course S. 15° E. and ascend.

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

80.00 Set a sandstone 20 x 10 x 9 ins. 15 ins. in the ground for Cor. to Secs. 4, 5, 32 & 33 marked with 2 notches on N. and 4 notches on E. edges and raised a mound of stone. alongside Pits impracticable.
from which

Chains.

1 Yellow Pine 24 ins. diam. bears $N. 82^{\circ} E$, 77 lks. dist.
marked T. 11 N, R. 19 E, S., 33 B. T.

1 Yellow Pine 20 ins. diam. bears $S. 61^{\circ} E$, 98 lks. dist.
marked T. 10 N, R. 19 E, S., 4 B. T.

1 Yellow Pine 31 ins. diam. bears $S. 9^{\circ} W$, 17 lks. dist.
marked T. 10 N, R. 19 E, S., 5 B. T.

1 Yellow Pine 8 ins. diam. bears $N. 32^{\circ} W$, 59 lks. dist.
marked T. 11 N, R. 19 E, S., 32 B. T.

Land mountainous

Soil 3rd rate.

Heavy timber of Pine.

Vegetation, bunchgrasses

U. B. T. 10 N. R. 19 E. G. & S. R. M.

Chains.

East. on a true line between sections 4 ^{and} 33.

Va. $14^{\circ} 30'$ East.

Descend.

17.73 Cross Wash, 30 lks. wide, Course $N. 12^{\circ} E$ and ascend.

31.87 Top of Spur, bears $N. 20^{\circ} W.$ ^{and} $S. 20^{\circ} E$ and descend.

40.00 Set a sand stone $24 \times 15 \times 9$ ins., 18 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 6 ins. diam. bears $N. 81^{\circ} E$, 45 lks. dist. marked $\frac{1}{2}$ S. B. T.

A Yellow Pine 10 ins. diam. bears $S. 49^{\circ} E$, 38 lks. dist. marked $\frac{1}{2}$ S. B. T.

57.50 Cross Wash, 42 lks. wide, Course $N. 60^{\circ} W$ and ascend.

80.00 Set a sand stone $20 \times 12 \times 6$ ins. 15 ins. in the ground for Cor. to Secs. 3, 4, 33 ^{and} 34, marked with 3 notches on W and 3 notches on E . edges and raised a mound of stone. alongside Pits impracticable.

from which

A Yellow Pine 20 ins. diam. bears $N. 51^{\circ} E$, 153 lks. dist. marked T. 11 $N.$, R. 19 E , S. 34 B. T.

48

M. B. T. 10 N. R. 19 E. G. & S. R. M.

chains.

1 Yellow Pine 28 ins. diam. bears S. 43° E, 106 lks. dist.
marked T. 10 N., R. 19 E., S., 3 B. T.

2 Yellow Pine 24 ins. diam. bears S. 44° W, 113 lks. dist.
marked T. 10 N., R. 19 E., S., 4 B. T.

3 Yellow Pine 16 ins. diam. bears N. 70° W, 70 lks. dist.
marked T. 11 N., R. 19 E., S., 33 B. T.

Land mountainous

Soil 3rd rate.

Heavy timber of Pines

Vegetation, bunch grass.

N. B. T. 10 N. R. 19 E. G. & S. R. M.

chains.

East. on a true line between sections 3 and 34.
Va. 14° 00' East.

Ascend.

29.24 Top of Hill bears N. 58° W. E. 58° E. and descend.

40.00 Set a sand stone 21 x 10 x 5 ins., 16 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

1 White Oak 5 ins. diam. bears S. 45° W., 49 lks. dist. marked 1/4 S. B. T.

1 Yellow Pine 14 ins. diam. bears N. 12° W., 115 lks. dist. marked 1/4 S. B. T.

55.90 Cross Wash, 16 lks. wide, Course N. 47° W. and ascend.

75.50 Top of Spur, bears N. W. E. and descend.

80.00 Set a sand stone 18 x 14 x 7 ins. 12 ins. in the ground for Cor. to Secs. 2, 3, 34 and 35, marked with 4 notches on W. and 2 notches on E. edges and raised a mound of stone. alongside Pits impracticable.

from which

1 Yellow Pine 12 ins. diam. bears N. 54° E., 42 lks. dist. marked T. 17, R. 19 E. S., 35 B. T.

U. B. T. 10 N. R. 19 E. G. & S. R. M.

ains.

A Yellow Pine 10 ins. diam. bears S. 55° E., 53 lks. dist.

marked T. 104, R. 19 E., S., 2 B. T.

A Yellow Pine 15 ins. diam. bears S. 14° W., 74 lks. dist.

marked T. 104, R. 19 E., S., 3 B. T.

A Yellow Pine 9 ins. diam. bears N. 60° W., 40 lks. dist.

marked T. 114, R. 19 E., S., 34 B. T.

Land mountainous

Soil 3rd rate.

Heavy timber of Pine,

Vegetation, bunchgrass.

East. on a true line between sections 2 and 30.

Va. 14° 15' East.

Descend.

8.16 Head of Ravine, Course N. 15° W. and ascend

18.89 Top of Spur, bears N. 11° E. and S. 11° W. and descend.

40.00 Set a sandstone 20 x 12 x 5 ins., 15 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

U. B. T. 10 N. R. 19 E. G. & S. R. M.

ains.

A Yellow Pine 10 ins. diam. bears S. 24° W, 73 lks. dist.
marked $\frac{1}{2}$ S. B. T.

A Yellow Pine 36 ins. diam. bears N. 75° E, 52 lks. dist.
marked $\frac{1}{2}$ S. B. T.

0.40 Cross Wash, 27 lks. wide, Course N. 17° E and ascend.

4.54 Top of Ridge, bears N. 30° E and S. 30° W and descend.

30.00 Set a sand stone 27x13x5 ins. 19 ins. in
the ground for Cor. to Secs. 1, 2, 35th and 36, marked
with 5 notches on W and 1 notch on E. edges and
raised a mound of stone. alongside Pits impracticable.
from which

A Yellow Pine 8 ins. diam. bears N. 18° E, 55 lks. dist.
marked T. 11 N., R. 19 E., S., 36 B. T.

A Yellow Pine 14 ins. diam. bears S. 23° E, 95 lks. dist.
marked T. 10 N., R. 19 E., S., 1 B. T.

A Yellow Pine 16 ins. diam. bears S. 31° W, 134 lks. dist.
marked T. 10 N., R. 19 E., S., 2 B. T.

A White Oak 9 ins. diam. bears N. 53° W, 84 lks. dist.
marked T. 11 N., R. 19 E., S., 35 B. T.

Land mountainous

Soil 3rd rate.

Heavy timber of Pine and Oak.

Vegetation, bunchgrass.

M. B. T. 10 N. R. 19 E. G. & S. R. M.

chains.

East. on a true line between sections 1 and 36

Va. $14^{\circ}10'$ East.

Descend.

40.00

Set a sand stone $20 \times 10 \times 6$ ins., 15 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 8 ins. diam. bears $N. 49^{\circ} E$, 24 lks. dist. marked $\frac{1}{2}$ S. B. T.

A Yellow Pine 40 ins. diam. bears $S. 10^{\circ} W$, 89 lks. dist. marked $\frac{1}{2}$ S. B. T.

66.43

Cross Wash, 30 lks. wide, Course $N. 53^{\circ} E$ and ascend.

80.00

Set a sand stone $16 \times 10 \times 6$ ins. 11 ins. in the ground, for Cor. to Tps. 10 and 11 N R's 19 and 20 E, marked with 6 notches on each edge, and raised a mound of stone. ^{alongside} Pits impracticable.

from which

A White Oak 6 ins. diam. bears $N. 48^{\circ} E$, 36 lks. dist. marked T. 11 N. R. 20 E. S., 31 B. T.

A Yellow Pine 6 ins. diam. bears $S. 44^{\circ} E$, 47 lks. dist. marked T. 10 N. R. 20 E. S., 6 B. T.

U. B. T. 10 N R. 19 E. G. & S. R. M.

ains.

1 White Oak, 10 ins. diam. bears S. 55 W, 46 lks. dist.
marked T. 104, R. 19 E, S., 1 B. T.

1 Yellow Pine 10 ins. diam. bears N. 60 W, 181 lks. dist.
marked T. 114, R. 19 E, S., 36 B. T.

Land mountainous

Soil 3rd rate.

Heavy timber of Pine & Oak.

Vegetation, bunchgrass.

March 31st 1883.

ains.

Cha

From the Cor. to Tps. 10 & 11 N. Rs. 19 & 20 E,
~~inter established~~
I fun,

North on a true line between sections 31 and 36.

Va. 13° 30' East.

Descend.

19.45 Cross Wash, 20 lks. wide, Course N. 55° E. and

Enter Valley, bears, N. 54° E. & S. 58° W.

33.70 Cross Road, bears, E. & W.

37.85 Cross Wash, 25 lks. wide, Course N. 76° E.

40.00 Set a sand stone 17 x 9 x 3 ins., 11
ins. in the ground, for 1/4 Sec. Cor., marked 1/4 on W.
face, dug pits, 18 x 18 x 12 ins., N. and S. of stone
5 1/2 ft. dist., and raised a mound of earth 1 1/2 ft. high,
3 1/2 ft. base, alongside from which

a Yellow Pine 16 ins. diam. bears N. 70° E., 40 lks. dist.
marked 1/4 S. B. T.

a Yellow Pine 28 ins. diam. bears S. 46° W., 110 lks. dist.
marked 1/4 S. B. T.

47.00 Leave Valley, bears N. 63° E. & S. 63° W. and ascend.

75.00 Top of Ridge, bears N. 70° E. & S. 70° W. and descend.

80.00 Set a sand stone 16 x 10 x 4 ins., 11 ins. in

E. 13, T. 11 N. R. 19 E. G. & S. R. M.

ains.

the ground for Cor. to Secs. 25, 30, 31 & 36, marked
with γ notch on S. and δ notch_{EO} on ∇ edges and
raised a mound of stone. alongside Pits impracticable.

from which

1 Yellow Pine 20 ins. diam. bears δ 69°E, 33 lbs. dist.
marked T. 11N, R. 20E, S., 31 B. T.

1 Yellow Pine 10 ins. diam. bears δ 51°W, 60 lbs. dist.
marked T. 11N, R. 19E, S., 36 B. T.

1 Juniper 12 ins. diam. bears ∇ 42°W, 23 lbs. dist.
marked T. 11N, R. 19E, S., 25 B. T.

No other trees within limits.

Land mountainous and level.

Soil 3rd rate.

Heavy timber of Pine and Juniper.

Vegetation, bunchgrass.

S. B. T. 11 N R. 19 E. G. & S. R. M.

ains.

Cha

North on a true line between sections 25^{and} 30.

Va. 130° 30' East.

Descend.

40.00 Set a sand stone 14 x 10 x 3 ins., 9 ins. in the ground, for $\frac{1}{2}$ Sec. Cor., marked $\frac{1}{2}$ on W. face, dug pits, 18 x 18 x 12 ins., N. and S. of stone $5\frac{1}{2}$ ft. dist., and raised a mound of earth $1\frac{1}{2}$ ft. high, $3\frac{1}{2}$ ft. base. alongside from which
 A Yellow Pine 14 ins. diam. bears S. 82° W, 68 lks. dist. marked $\frac{1}{2}$ S. B. T.

A White Oak 3 ins. diam. bears S. 87° E, 17 lks. dist. marked $\frac{1}{2}$ S. B. T.

45.00 Enter Valley, bears, N. 58° E. and S. 58° W.

80.00 Set a sand stone 16 x 12 x 3 ins., 11 ins. in the ground for Cor. to Secs. 17, 24, 25^{and} 30, marked 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. alongside from which

A Yellow Pine 18 ins. diam. bears N. 32° E, 278 lks. dist. marked T. 11 N, R. 20 E, S., 19 B. T.

A Yellow Pine 28 ins. diam. bears S. 19° E, 105 lks. dist. marked T. 11 N, R. 20 E, S., 30 B. T.

E. B. T. // N. R. 19 E. G. & S. R. M.

ins.

A Yellow Pine 30 ins. diam. bears $N. 59^{\circ} W.$, 23 lks. dist.

marked T. // N., R. 19 E., S., 25 B. T.

No other trees within limits.

Land rolling. and level.

Soil 3rd rate.

Heavy timber of Pine and Oak,

Vegetation, bunchgrass.

North on a true line between sections 19 and 24.

$Va. 13^{\circ} 30'$ East.

Over level land

19.20 Cross Road, bears, $N. 38^{\circ} W.$ and $S. 38^{\circ} E.$

28.00 Leave Valley, bears $N. 30^{\circ} W.$ and $S. 30^{\circ} E.$, and ascend.

37.55 Cross Road, bears, $N. 8^{\circ} E.$ and $S. 8^{\circ} W.$

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., $N.$ 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 Juniper 10 ins. diam. bears $S. 70^{\circ} E.$, 36 lks. dist. marked $\frac{1}{2}$ S. B. T.

E. B. T. 11 N. R. 19 E. G. & S. R. M.

Chains.

A Pine 4 ins. diam. bears S. 60° W, 37 lks. dist.
marked 1/2 S. B. T.

70.00 Top of Ridge, bears N. 20° E. 21/2 W. 20° W and descend.

80.00 Set a sandstone 21 x 13 x 5 ins. 16 ins. on
the ground for Cor. to Secs. 13, 18, 19 and 24, marked
with 3 notches on S. and 3 notches on N edges and
raised a mound of stone. alongside Pits impracticable,
from which

A Yellow Pine 14 ins. diam. bears S. 68° E, 29 lks. dist.
marked T. 11 N., R. 20 E., S., 19 B. T.

A Juniper 6 ins. diam. bears S. 26° W, 28 lks. dist.
marked T. 11 N., R. 19 E., S., 24 B. T.

A Juniper 8 ins. diam. bears N. 20° W, 26 lks. dist.
marked T. 11 N., R. 19 E., S., 13 B. T.

No other trees within limits.

Land rolling.

Soil 3rd rate

Heavy timber of Pine and Juniper.

Vegetation, bunchgrass.

E. B. T. 11 N. R. 19 E. G. & S. R. M.

Chains.

North on a true line between sections 13 and 18.

Va. 13° 30' East.

Descend.

21.50 Head of Ravine, Course N. 70° W. and ascend

37.00 Top of Spur, bears N. 58° W. 200 yds. S. 58° E. and descend.

40.00 Set a sand stone 15 x 8 x 4 ins., 10 ins. in the ground, for 1/4 Sec. Cor., marked 1/4 on W. face, and raised a mound of stone. alongside Pits impracticable.

from which

A Juniper 13 ins. diam. bears S. 73° E., 16 yds. dist. marked 1/4 S. B. T.

A Juniper 10 ins. diam. bears S. 88° W., 63 yds. dist. marked 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. 7, 12, 13 and 18, marked T. 11 N. S. 7, on N. E., R. 20 E, S. 18 on S. E., S. 13 on S. W. and S. 12 on N. W. face, with 4 notches on S. and 2 notches on W. 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.

from which

E. B. T. 11 N R. 19 E. G. & S. R. M.

ains.

Yellow Pine 8 ins. diam. bears $N. 64^{\circ} E$, 70 lbs. dist.
marked T. 11 N, R. 20 E, S. 7 B. T.

Yellow Pine 10 ins. diam. bears $S. 74^{\circ} E$, 157 lbs. dist.
marked T. 11 N, R. 20 E, S. 18 B. T.

Yellow Pine 26 ins. diam. bears $S. 60^{\circ} W$, 91 lbs. dist.
marked T. 11 N, R. 19 E, S. 13 B. T.

Yellow Pine 6 ins. diam. bears $N. 43^{\circ} W$, 108 lbs. dist.
marked T. 11 N, R. 19 E, S. 12 B. T.

Land - mountainous. and rolling.

Soil 3rd rate

Heavy timber of Pine.

Vegetation, bunchgrass

E. B. T. 11 N. R. 19 E. G. & S. R. M.

chains.

North on a true line between sections 7 ^{and} 12.

Va. 13° 30' East.

Descend.

14.00 Cross Wash, 15 lks. wide, Course N. 22° E. and

Enter Valley, bears E. ^{and} W.

40.00 Set a sand stone 15 x 9 x 3 ins., 10 ins. in the ground, for 1/2 Sec. Cor., marked 1/2 on W. face, dug pits, 18 x 18 x 12 ins., N. and S. of stone 5 1/2 ft. dist., and raised a mound of earth 1 1/2 ft. high, 3 1/2 ft. base. alongside from which

A Pine 7 ins. diam. bears V. 69° E., 123 lks. dist. marked 1/2 S. B. T.

A Pine 9 ins. diam. bears N. 65° W., 140 lks. dist. marked 1/2 S. B. T.

73.50 Cross Wash, 15 lks. wide, Course E. and ascend.

80.00 Set a sand stone 15 x 10 x 3 ins., 10 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. from which

A Pine 4 ins. diam. bears N. 79° E., 41 lks. dist. marked T. 114, R. 20 E, S., 6 B. T.

C. B. T. 11 N. R. 19 E. G. & S. R. M.

Chains.

A Pine 4 ins. diam. bears $S. 70^{\circ} E.$, 88 lks. dist.
marked T. 11 N., R. 20 E., S., 7 B. T.

A Pine 7 ins. diam. bears $S. 48^{\circ} W.$, 94 lks. dist.
marked T. 11 N., R. 19 E., S., 12 B. T.

No other trees within limits.

Lana rolling.

Soil 3rd rate.

Heavy timber of Pine.

Vegetation, bunch grass.

North on a true line between sections 1 and 6.

$V. 13^{\circ} 30'$ East.

Ascend.

14.00 Top of Ridge, bears $N. 40^{\circ} E.$ $N. 40^{\circ} W.$ and descend.

40.00 Set a Sandstone $15 \times 7 \times 3$ ins., 10 ins. in the ground, for $\frac{1}{4}$ Sec. Cor., marked $\frac{1}{4}$ on $N.$ face, dug pits, $18 \times 18 \times 12$ ins., $N.$ and $S.$ of stone $5\frac{1}{2}$ ft. dist., and raised a mound of earth $1\frac{1}{2}$ ft. high, $3\frac{1}{2}$ ft. base. alongside

from which

A Pine 9 ins. diam. bears $N. 70^{\circ} E.$, 132 lks. dist.
marked $\frac{1}{4}$ S. B. T.

E. B. T. 11 N. R. 19 E. G. & S. R. M.

Chains.

A Juniper 6 ins. diam. bears S. 52° W., 95 lbs. dist.
marked $\frac{1}{4}$ S. B. T.

59.00 Head of Ravine, Course N. 70° E. and ascend

80.00 Set a Sand stone 20 x 14 x 3 ins. 15 ins. in the
ground, for Cor. to Tps. 11 and 124. R's 19 and
20 E., marked with 6 notches on each edge, and raised a
mound of stone. Pits impracticable.

from which

A Juniper 8 ins. diam. bears N. 60° W., 132 lbs. dist.
marked T. 124, R. 19 E., S., 36 B. T.

A Pine 7 ins. diam. bears N. 70° E., 189 lbs. dist.
marked T. 124 R. 20 E., S., 31 B. T.

No other trees within limits.

Land mountainous

Soil 3rd rate.

Heavy timber of Pine and Juniper.

Vegetation, bunchgrass

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

April 2nd 1883

W. B. T. 11 N. R. 19 E. G. & S. R. M.

Chains.

From the Cor. to Tps. 10 & 11 N. Rs. 18 & 19 E.,
recently established by me.
I run,

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

Va. $14^{\circ} 15'$ East.

Descend.

17.77 Cross Wash, 18 lks. wide, Course E° and ascend.

40.00 Set a sand stone $18 \times 10 \times 8$ 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 Yellow Pine 23 ins. diam. bears $S. 25^{\circ} W.$, 122 lks. dist.
marked $\frac{1}{2}$ S. B. T.

No other trees within limits.

45.12 Top of Ridge, bears $N. 65^{\circ} E.$ $\frac{1}{2}$ of 65^W and descend.

80.00 Set a sand stone $25 \times 18 \times 12$ ins. 19 ins. in
the ground for Cor. to Secs. 25, 30, 31 ^{and} 36, marked
with 1 notch on S. and 5 notches on ~~the~~ edges and
raised a mound of stone. alongside Pits impracticable.

from which

A Yellow Pine 28 ins. diam. bears $S. 70^{\circ} W.$, 60 lks. dist.
marked T. 11 N., R. 18 E., S., 36 B. T.

W. B. T. 11 N. R. 19 E. G. & S. R. M.

Chains.

A Yellow Pine 19 ins. diam. bears $S. 20^{\circ} E.$, 123 lks. dist.
marked T. 11 N., R. 19 E., S., 31 B. T.

A White Oak 16 ins. diam. bears $N. 23^{\circ} W.$, 123 lks. dist.
marked T. 11 N., R. 18 E., S., 25 B. T.

A White Oak 14 ins. diam. bears $N. 50^{\circ} E.$, 65 lks. dist.
marked T. 11 N., R. 19 E., S., 30 B. T.

Land mountainous

Soil 2nd and 3rd rate.

Heavy timber of Pine and Oak.

Vegetation, bunchgrass.

W. B. T. 11 N. R. 19 E. G. & S. R. M.

Chains.

North on a true line between sections 25 ^{and} 30,Va. $13^{\circ}30'$ East.

Descend.

40.00

Set a *granite* stone $5 \times 6 \times 4$ ins., 10 ins. in the ground, for $\frac{1}{4}$ Sec. Cor., marked $\frac{1}{4}$ on W. face, dug pits, $18 \times 18 \times 12$ ins., N. and S. of stone $5\frac{1}{2}$ ft. dist., and raised a mound of earth $1\frac{1}{2}$ ft. high, $8\frac{1}{2}$ ft. base, alongside from which

A White Oak 5 ins. diam. bears S. $80^{\circ}E$, 29 lbs. dist. marked $\frac{1}{4}$ S. B. T.

A White Oak 8 ins. diam. bears S. $28^{\circ}W$, 22 lbs. dist. marked $\frac{1}{4}$ S. B. T.

80.00

Set a *sand* stone $22 \times 20 \times 10$ ins. 16 ins. in the ground for Cor. to Secs. 19, 24, 25 & 30, marked with 2 notch ∞ on S. and 4 notch ∞ on N. edges and raised a mound of stone. alongside Pits impracticable. from which

A Yellow Pine 5 ins. diam. bears N. $51^{\circ}E$, 68 lbs. dist. marked T. 11 N., R. 19 E., S. 19 B. T.

A Yellow Pine 22 ins. diam. bears S. $43^{\circ}E$, 121 lbs. dist. marked T. 11 N., R. 19 E., S. 30 B. T.

A Yellow Pine 27 ins. diam. bears S. $24^{\circ}W$, 123 lbs. dist.

W. B. T. 11 N. R. 19 E. G. & S. R. M.

Chains.

marked T. 11 N., R. 18 E., S., 25 B. T.

A Yellow Pine 16 ins. diam. bears $N. 41^{\circ} W.$, 62 lks. dist.

marked T. 11 N., R. 18 E., S., 24 B. T.

Land rolling.Soil 3rd rate
Heavy timber of Pine.

Vegetation, bunchgrass.

North on a true line between sections 19th & 24th, $Va. 13^{\circ} 30'$ East.

Descend.

31.36 Cross Wash, 21 lks. wide, Course $N. 40^{\circ}$ and ascend.40.00 Set a sand stone 16 x 8 x 6 ins., 11
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 Yellow Pine 16 ins. diam. bears $S. 19^{\circ} W.$, 68 lks. dist.marked $\frac{1}{2}$ S. B. T.A Yellow Pine 16 ins. diam. bears $N. 74^{\circ} E.$, 74 lks. dist.marked $\frac{1}{2}$ S. B. T.42.00 Top of Spur, bears $N. 50^{\circ} E.$ $\frac{1}{2}$ $S. 50^{\circ} W.$ and descend.

8
 W. B. T. 11 N. R. 19 E. G. & S. R. M.

ains.

Ch

52.25 Cross Wash, 25 lks. wide, Course $N 60^{\circ} E$ and ascend.

80.00 Set a sand stone $28 \times 16 \times 7$ ins. 21 ins. in the ground for Cor. to Secs. 13, 18, 19^W 24, marked with 3 notch ∞ on S. and 3 notch ∞ on N edges and raised a mound of stone. alongside Pits impracticable. from which

21 Yellow Pine 16 ins. diam. bears $N 70^{\circ} E$, 154 lks. dist. marked T. 11 N , R. 19 E , S., 18 B. T.

21 Yellow Pine 25 ins. diam. bears $S 19^{\circ} W$, 61 lks. dist. marked T. 11 N , R. 18 E , S., 24 B. T.

21 Yellow Pine 20 ins. diam. bears $N 44^{\circ} W$, 62 lks. dist. marked T. 11 N , R. 18 E , S., 13 B. T.

No other trees within limits.

Land mountainous

Soil 3rd rate.

Heavy timber of Pine.

Vegetation, bunchgrass.

W. B. T. 11 N R. 19 E. G. & S. R. M.

No. 1392

North on a true line between sections 13^W 18.
Va. 13° 30' East.

Ascend.

6.57 Top of Spur, bears N 41° E. ²/₄ S. 41° W and descend.

40.00 Set a post 3 ft. long, 3 ins. diam. with marked stone.
12 ins. in the ground, for 1/2 Sec. Cor., marked 1/2 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.

47.20 Enter Flat bears E. ²/₄ W.

71.65 Cross Wash, 10 lks. wide, Course E, and ascend.

76.11 Cross Road, bears, E. ²/₄ W.

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, 13^W 18,
marked T. 11 N, S. 7, on N. E., R 19 E, S. 18
on S. E. ^{R 18 E.} S. 13 on S. W and S. 12 on N. W. faces,
with 4 notches on S. and 2 notches on W 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.

from which

A Pine 4 ins. diam. bears N. 26° W, 148 lks. dist
marked T. 11 N. R. 18 E, S. 12 B. T.

W. B. T. 11 N. R. 19 E. G. & S. R. M.

(Chains.

No other trees within limits.

Land rolling.

Soil *3m* rate.

Timber of Pine,

Vegetation, bunchgrass.

North on a true line between sections 7^{and} 12.

Va. 13° 30' East.

Ascend.

2.00 Leave Flat bears E. *2m* 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.

from which

A Pine 5 ins. diam. bears N. 50° E, 31 lks. dist.
marked $\frac{1}{4}$ S. B. T.

A Juniper 10 ins. diam. bears S. 60° E, 68 lks. dist.
marked $\frac{1}{4}$ S. B. T.

47.00 Top of Spur, bears N. E. *2m* S. W. and descend.

W. B. T. 11 N. R. 19 E. G. & S. R. M.

Chains.

10.00

Set a post 4 ft. long, 4 ins. square, with marked stone.
 12 ins. in the ground, for Cor. to Secs. 1, 6, 7th & 12,
 marked T. 11th S. 6, on N. E., R 19th E., S. 7
 on S. E. S. ^{R. 18th E.} 12 on S. W and S. 1 on N. W. faces,
 with 5 notches on S. and 1 notch 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.

from which

A Pine 10 ins. diam. bears S. 39° E., 73 lks. dist.
 marked T. 11th, R. 19th E., S., 7 B. T.

A Juniper 10 ins. diam. bears N. 47° E., 32 lks. dist.
 marked T. 11th, R. 19th E., S., 6 B. T.

A Juniper 3 ins. diam. bears N. 62° W., 34 lks. dist.
 marked T. 11th, R. 18th E., S., 1 B. T.

No other trees within limits.

Land mountainous

Soil 3rd rate.

Heavy timber of Pine and Juniper.

Vegetation, bunchgrass.

W. B. T. 11 N. R. 19 E. G. & S. R. M.

(Chains.

North on a true line between sections 1 and 6.

Va. $13^{\circ}30'$ East.

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 which
A Pine 3 ins. diam. bears $S. 13^{\circ}E$, 23 lks. dist. marked $\frac{1}{2}$ S. B. T.
- A Juniper 6 ins. diam. bears $N. 60^{\circ}W$, 18 lks. dist. marked $\frac{1}{2}$ S. B. T.
- 76.20 Cross Wash, 20 lks. wide, Course $N. 86^{\circ}E$ and ascend.
- 80.00 Set a sand stone 16 x 10 x 4 ins. 11 ins. in the ground, for Cor. to Tps. 11 and 12 R's 18 and 19 $^{\circ}$, marked with 6 notches on each edge, and raised a mound of stone. - Pits impracticable. alongside from which
A Pine 11 ins. diam. bears $S. 21^{\circ}E$, 74 lks. dist. marked T. 11 N, R. 19 E, S., 6 B. T.
- A Pine 8 ins. diam. bears $S. 18^{\circ}W$, 45 lks. dist. marked T. 11 N, R. 18 E, S., 1 B. T.

W. B. T. 11 N. R. 19 E. G. & S. R. M.

Chains.

A Pine 5 ins. diam. bears $N. 40^{\circ} W.$, 36 lbs. dist.
 marked T. 124, R. 186, S., 36 B. T.

A White Oak 6 ins. diam. bears $N. 70^{\circ} E.$, 35 lbs. dist.
 marked T. 124, R. 196, S., 31 B. T.

Land mountainous

Soil 3rd rate.

Heavy timber of Pine & Oak.

Vegetation, bunchgrass.

(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 $34^{\circ} 21' N$.

From the Cor. to Tps. 11 & 12 U, Rs. 18 & 19 E, ^{just established}

I run East. on a random line on U. B. of Tp.

Va. $14^{\circ} 00'$ East.

I set temporary corners at every half mile, and at 5 miles

78.75 chs. I arrive at a point 12 1/2 lks. South of Cor. to Tps, previously set by me.

11 & 12 U. Rs. 19 & 20 E. from which corner I run

S. $89^{\circ} 51' W$ on a true line between sections 1 & 36,

Va. $14^{\circ} 00'$ East.

Ascend.

4.00 Top of Spur, bears $N. 20^{\circ} E$ ~~to~~ S. $30^{\circ} W$ and descend.

40.00 Set a post 3 ft. long, 3 ins. diam. with marked stone. 12 ins. in the ground, for 1/2 Sec. Cor., marked 1/2 S. on U. face, dug pits, 18 x 18 x 12 ins., E. and W. 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.

56.70 Cross Wash, 2 1/2 lks. wide, Course N. and ascend.

N. B. T. 11 N. R. 19 E. G. & S. R. M.

Chains.

80.00

Set a Sand stone $20 \times 13 \times 4$ ins. 15 ins. in
the ground for Cor. to Secs. 1, 2, 35 & 36, marked
with 5 notches on *W* and 1 notch on *E.* edges and
raised a mound of stone. alongside Pits impracticable.
from which

A Pine 8 ins. diam. bears $\phi. 50^{\circ} E$, 234 lbs. dist.
marked T. 11 N., R. 19 E., S., 1 B. T.

A Pine 10 ins. diam. bears $\phi. 61^{\circ} W$, 170 lbs. dist.
marked T. 11 N., R. 19 E., S., 2 B. T.

No other trees within limits.

Land mountainous

Soil - *3rd* rate.

Timber of *Pine*.

Vegetation, bunchgrass.

Chains.

S. 89° 51' W. on a true line between sections 2 and 35,

Va. 130 45' East.

Ascend.

34.00 Top of Ridge, bears N. 40° E. $\frac{1}{2}$ W. 40° 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
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 Juniper 20 ins. diam. bears N. 38° E., 122 yds. dist.
marked $\frac{1}{2}$ S. B. T.

No other trees 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. 2, 3, 34 & 35,
marked T. 12 N. S. 35, on N. E., R. 19 E., S. 2
on S. E. S. 3 on S. W. and S. 34 on N. W. faces,
with 4 notch ∞ on W. and 2 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 Pine 6 ins. diam. bears S. 68° W., 25 yds. dist.
marked T. 11 N., R. 19 E., S. 3 B. T.

N. B. T. 11 N. R. 19 E. G. & S. R. M.

Chains.

A Juniper 10 ins. diam. bears $N. 26^{\circ} E.$, 9 lks. dist.
marked T. 12 N., R. 19 E., S., 35 B. T.

No other trees within limits.

Land mountainous

Soil good rate.

Timber of Pine and Juniper.
Vegetation, bunch grass.

S. $89^{\circ} 51' W.$ on a true line between sections 3rd and 34.

Va. $13^{\circ} 30'$ East.

Descend.

6.00 Cross Wash, 15 lks. wide, Course $N. 60^{\circ} W.$ and ascend.

40.00 Set a lime stone $16 \times 10 \times 9$ 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.

69.50 Top of Spur, bears $N. 48^{\circ} W.$ and $48^{\circ} E.$ 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. 3, 4, 33 & 34,
marked T. 12 N. S. 34, on N. E., R. 19 E., S. 3
on S. E. S. 4 on S. W. and S. 33 on N. W. face,
with 3 notches on W. and 3 notches on E. edges;
and pits, $18 \times 18 \times 12$ ins. in each Sec., $5\frac{1}{2}$ ft. dist.,

78
 U. B. T. 11 N. R. 19 E. G. & S. R. M.

Chains.

and raised a mound of earth 2 ft. high, 4½ ft. base around post.

Land mountainous

Soil 3rd rate.

Timber of Pine and Juniper.

Vegetation, bunchgrass.

S. 89° 51' W. on a true line between sections 4th and 33.

Va. 13° 45' East.

Descend.

26.00 Enter Valley, bears U. and S.

40.00 Set a sand stone 24 x 18 x 12 ins., 18 ins. in the ground, for ½ Sec. Cor., marked ½ on U. face, and raised a mound of stone. alongside Pits impracticable.

45.37 ^{Snowflake} Cross Wash, 100 lks. wide, Course U. 30° E. and ascend.

62.00 Leave Valley, bears U. and S.

80.00 Set a sand stone 20 x 12 x 6 ins. 15 ins. in the ground for Cor. to Secs. 4, 5, 32nd and 33 marked with 2 notches on W and 4 notch 20 on E. edges and raised a mound of stone. alongside Pits impracticable. from which

A Juniper 6 ins. diam. bears S. 74° E., 42 lks. dist.

U. B. T. 11 N. R. 19 E. G. & S. R. M.

chains.

marked T. 11 N., R. 19 E., S., 4 B. T.

A Juniper 5 ins. diam. bears S. 24° W., 35 lks. dist.

marked T. 11 N., R. 19 E., S., 5 B. T.

A Pine 6 ins. diam. bears N. 59° E., 42 lks. dist.

marked T. 12 N., R. 19 E., S., 33 B. T.

No other trees within limits.

Land rolling.

Soil 3rd rate.

Timber of Pine and Juniper.

Vegetation, bunchgrass.

S. 87° 57' W. on a true line between sections 5 and 32.

Va. 13030' East.

Ascend.

14.50 Top of Spur, bears N. E. and S. W. and descend.

24.30 Cross Wash, 12 lks. wide, Course N. 87° E. and ascend.

40.00 Set a Sand stone 16 x 8 x 6 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

U. B. T. 11 N. R. 19 E. G. & S. R. M.

(Chains.

A Pine 6 ins. diam. bears $N. 20^{\circ} W$, 15 lbs. dist.
marked $\frac{1}{2}$ S. B. T.

A Juniper 12 ins. diam. bears $S. 13^{\circ} W$, 34 lbs. dist.
marked $\frac{1}{2}$ S. B. T.

80.00

Set a flint stone $14 \times 9 \times 8$ ins. 9 ins. in
the ground for Cor. to Secs. 5, 6, 31 & 32, marked
with / notch on W and 5 notches on E. edges and
raised a mound of stone. alongside Pits impracticable.
from which

A Yellow Pine 13 ins. diam. bears $N. 53^{\circ} W$, 70 lbs. dist.
marked T. 12 N, R. 19 E, S., 31 B. T.

A Pine 8 ins. diam. bears $S. 51^{\circ} W$, 33 lbs. dist.
marked T. 11 N, R. 19 E, S., 6 B. T.

A Live Oak 7 ins. diam. bears $S. 23^{\circ} E$, 14 lbs. dist.
marked T. 11 N, R. 19 E, S., 5 B. T.

No other trees within limits.

Land mountainous

Soil 3rd rate.

Heavy timber of Pine and Oak.

Vegetation, bunchgrass.

U. S. T. 11 N. R. 19 E. G. & S. R. M.

Chains.

S. 59° 57' W. on a true line between sections 6th and 31.

Va. 14° 00' East.

Ascend.

10.00 Top of Ridge, bears N. 27° E. $\frac{1}{2}$ S. 27 $\frac{1}{2}$ 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
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 20 ins. diam. bears S. 73° E., 50 lks. dist.
marked $\frac{1}{4}$ S. B. T.A Yellow Pine 12 ins. diam. bears N. 70° W., 14 lks. dist.
marked $\frac{1}{4}$ S. B. T.

43.00 Cross Wash, 20 lks. wide, Course N. 30° E. and ascend.

78.75 The Cor. to Tps. 11 & 12 N. Rs. 18 & 19 E.
from which I started -
Dend mountainousSoil 3rd rate.

Heavy timber of Pine,

Vegetation, bunchgrass.

April 3rd 1883.

E. B. T. 12 N. R. 19 E. G. & S. R. M.

Chains.

From the Cor. to Tps. 11 & 12 N. Rs. 19 & 20 E.
 (run, ~~is established~~)

North on a true line between sections 31 and 36.

Va. $14^{\circ}30'$ East.

Ascend.

20.00 Top of Ridge, bears $N. 40^{\circ} E.$ $S. 40^{\circ} W.$ and descend.

40.00 Set a sand stone $24 \times 13 \times 5$ ins., 1.8 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 Yellow Pine 10 ins. diam. bears $S. 20^{\circ} E.$, 79 lks. dist. marked $\frac{1}{2}$ S. B. T.

A Yellow Pine 3 ins. diam. bears $N. 65^{\circ} W.$, 70 lks. dist. marked $\frac{1}{2}$ S. B. T.

41.80 Cross Wash, 29 lks. wide, Course E, and ascend.

52.00 Top of Ridge, bears $N. 34^{\circ} E.$ $S. 54^{\circ} W.$ 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, 31 & 36, marked T. 12 M. S. 30, on N. E., R. 20 E., S. 31 on S. E., S. 36 on S. W. and S. 25 on N. W. face, with notch on S. and notch on W. edges; dug pits, $18 \times 18 \times 12$ ins. in each Sec. 51 ft. dist.

E. B. T. 12 N R. 19 E. G. & S. R. M.

Chains.

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

from which

A Pine 6 ins. diam. bears S. 39° E, 105 lbs. dist.

marked T. 124.R. 20 E, S., 31 B. T.

A Juniper 7 ins. diam. bears N. 10° W, 80 lbs. dist.

marked T. 124.R. 19 E, S., 25 B. T.

No other trees within limits.

Land mountainous

Soil good rate.

Timber of Pine and Juniper.

Vegetation, bunch grass.

E. B. T. 12 N R. 19 E. G. & S. R. M.

chains.

North on a true line between sections 25⁴⁰ & 30

Va. 14° 15' East.

Descend.

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., U. 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. 19, 24, 25⁴⁰ & 30, marked T. 12 N. S. 17, on N. E., R. 20 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; 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. from which

A Pine 10 ins. diam. bears U. 75° E, 27 lbs. dist. marked T. 12 N R. 20 E, S., 19 B. T.

A Juniper 8 ins. diam. bears S. 74° W, 7 lbs. dist. marked T. 12 N, R. 19 E, S., 25 B. T.

No other trees within limits. Land rolling.

Soil 3^{me} rate.

Timber of Pine & Juniper.

Vegetation, bunchgrasses.

E. B. T. 12 N. R. 19 E. G. & S. R. M.

chains,

North on a true line between sections 19th and 24th.

Va. 14° 15' 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
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.

46.00 Cross Wash, 20 lks. wide, Course N. 30° E. and ascend

80.00 Set a sand stone 22 x 17 x 4 ins. 16 ins. in
the ground for Cor. to Secs. 13, 18, 19th and 24th, marked
with 3 notches on S. and 3 notches on N. edges and
raised a mound of stone. alongside Pits impracticable.
from which

A Pine 5 ins. diam. bears N. 30° E., 117 lks. dist.

marked T. 12 N. R. 20 G., S., 18 B. T.

No other trees within limits.

Land rolling.

Soil 3rd rate.

Timber of Pine and Juniper.

Vegetation, bunchgrass.

E. B. T. 12 N. R. 19 E. G. & S. R. M.

chains.

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

Va. / 4° 15' East.

Ascend.

- 6.00 Top of Spur, bears \mathcal{N} . 40° E. \mathcal{W} 50.40 W. and descend.
- 20.00 Cross Wash, 18 lks. wide, Course \mathcal{N} . 30° E. and ascend.
- 35.00 Top of Ridge, bears \mathcal{N} . 28° E. \mathcal{S} 28° W. and descend.
- 40.00 Set a sand stone 18 x 10 x 4 ins., 12 ins. in the ground, for $\frac{1}{2}$ Sec. Cor., marked $\frac{1}{2}$ on \mathcal{W} . face, and raised a mound of stone. Pits impracticable.

from which

A Pine 11 ins. diam. bears \mathcal{S} . 45° E, 68 lks. dist. marked $\frac{1}{2}$ S. B. T.

A Juniper 6 ins. diam. bears \mathcal{N} . 35° W, 130 lks. dist. marked $\frac{1}{2}$ S. B. T.

- 80.00 Set a sand stone 20 x 13 x 7 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 \mathcal{N} edges and raised a mound of stone. alongside Pits impracticable. Land mountainous

Soil 3^m rate.

Timber of Pine & Juniper.

Vegetation, bunchgrass.

E. B. T. 12 N. R. 19 E. G. & S. R. M.

Chains.

North on a true line between sections 7 and 12.

Va. $14^{\circ} 15'$ East.

Descend.

7.00 Cross Wash, 20 lks. wide, Course $N. 20^{\circ} E.$ and ascend.40.00 Set a granite stone $16 \times 8 \times 3$ 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.43.30 Top of Spur, bears $N. 27^{\circ} E.$ $E. S. 27^{\circ} W.$ and descend.64.60 Cross Wash, ^{Small? 22 lks} 75 lks. wide, Course $S. 87^{\circ} E.$ and ascend.80.00 Set a sand stone $8 \times 10 \times 3$ ins. 12 ins. in the ground for Cor. to Secs. 1, 6, 7 and 12, marked with \int notch E on S. and $/$ notch on H edges and raised a mound of stone. alongside Pits impracticable.
Land mountainousSoil 3rd rate.

Timber of Pine and Juniper.

Vegetation, bunchgrass.

Chains.

North on a true line between sections 1 and 6.

Va. $14^{\circ} 17'$ East.

Ascend.

- 7.22 Cross Road, bears N. $65^{\circ} E$ and S. $65^{\circ} W$.
- 34.00 Top of Hill 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 $\frac{1}{4}$ Sec. Cor., marked $\frac{1}{4}$ S. on W face, dug pits, $18 \times 18 \times 12$ 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.
- 46.25 Intersect the 3rd Standard Parallel North at a point 16.00 chs. East of the Standard Cor. to Tps. 13 N., R. 19th and 20th E., which is a post, set firmly in the ground, with marked stone, marked S. E. T. 13 N. on N.; R. 20 E., S. 31 on E. and R. 19 E., S. 36 on W. faces, with 6 notches on N. E. and W. faces; with pits N. E. and W. of post and a mound of earth in good order around post; from which
 A Pine \nearrow ins. diam. bears N. $80^{\circ} W$, 25 chs. dist.

E. B. T. 12 N. R. 19 E. G. & S. R. M.

Chains.

marked T. 13N, R. 19E, S., 36 B. T.

A Juniper 8 ins. diam. bears N. 15° E, 45 lks. dist.

marked T. 13N, R. 20E, S., 31 B. T.

A Juniper 8 ins. diam. bears S. 12° E, 20 lks. dist.

marked T. 12N, R. 20E, S., 6 B. T.

and

Set a post 4 1/2 ft. long, 4 ins. square, with marked stone 12 ins. in the ground, for Closing Cor. to Tps. 12N., R's 19 and 20E, marked C. C.

T: 12N. on S. R. 20E. S. 6, on E. and R. 19E, S. 1 on W faces with 8 notches on S, E. & W faces, dug pits, 24 x 18 x 12 ins, crosswise on each line, S, E. & W of post, 6 ft. dist, and raised a mound of earth 2 1/2 ft. high, 5 ft. base, around post,

Land rolling.

Soil 3rd rate.

Timber of Pine and Juniper.

Vegetation, bunchgrass.

April 4th 1883.

W. B. T. 12 N. R. 19 E. G. & S. R. M.

Chains.

From the Cor. to Tps. 11 & 12 N. Rs. 18 & 19 G,
 newly established by me -
 I run,

North on a true line between sections 31 and 36.

Va. $14^{\circ} 00'$ East.

Ascend.

6.24 Top of Spur, bears $N. 40^{\circ} E.$ $\frac{3}{4}$ S. $40^{\circ} W.$ and descend.

31.84 Cross Wash, 30 lks. wide, Course $N 50^{\circ} E$ and ascend.

40.00 Set a Sand stone $20 \times 12 \times 10$ 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 8 ins. diam. bears $S. 11^{\circ} E.$, 107 lks. dist.
 marked $\frac{1}{4}$ S. B. T.

No other trees within limits.

66.16 Top of Spur, bears $N. 30^{\circ} E.$ $\frac{3}{4}$ S. $30^{\circ} W.$ and descend.

80.00 Set a Sand stone $16 \times 8 \times 6$ ins. 11 ins. in
 the ground for Cor. to Secs. 25, 30, 31 $\frac{3}{4}$ S. 36 marked
 with 1 notch on S. and 5 notches on W. edges and
 raised a mound of stone. alongside Pits impracticable.

from which

A Yellow Pine 3 ins. diam. bears $S. 40^{\circ} W.$, 12 lks. dist.

W. B. T. 12 N. R. 19 E. G. & S. R. M.

Chains.

marked T. 12 N., R. 18 E., S., 36 B. T.

No other trees within limits.

Land mountainous

Soil 3rd rate.

Timber of Pine and Juniper.

Vegetation, bunchgrass.

North on a true line between sections 25 and 30.

Va. $14^{\circ} 00'$ East.

Descend.

40.00 Set a sandstone $16 \times 12 \times 8$ ins., 11 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 12 ins. diam. bears $N. 57^{\circ} E.$, 7 lks. dist. marked $\frac{1}{2}$ S. B. T.

A Juniper 6 ins. diam. bears $S. 85^{\circ} W.$, 2 1/2 lks. dist. marked $\frac{1}{2}$ S. B. T.

74.12 Cross Wash, 16 lks. wide, Course $N. 27^{\circ} E.$ and ascend

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

W. B. T. 12 N. R. 19 E. G. & S. R. M.

Chains.

12 ins. in the ground, for Cor. to Secs. 19, 24, 25⁴⁰ and 30,
 marked T. 12 N. S. 19, on N. E., R. 19 E., S. 30
 on S. E., S. 25 on S. W. and S. 24 on N. W. face,
 with 2 notches on S. and 4 notches on 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 Juniper 5 ins. diam. bears S 53° W., 41 lks. dist.
 marked T. 12 N., R. 19 E., S., 25 B. T.

A Juniper 6 ins. diam. bears N. 1½° E., 78 lks. dist.
 marked T. 12 N., R. 19 E., S., 19 B. T.

No other trees within limits.

Land rolling.

Soil 3rd rate.

Timber of Pine and Juniper.
 Vegetation, bunchgrass.

W. B. T. 12 N. R. 19 E. G. & S. R. M.

Chains.

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

Va. 10° 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, 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 Juniper 8 ins. diam. bears N. 83° W., 105 yds. dist marked $\frac{1}{2}$ S. B. T.

No other trees within limits.

65.00

Top of Ridge, bears N. 25° E. E. S. 25° 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. 13, 18, 19 & 24, marked T. 12 N. S. 18, on N. E., R 196, S. 19 on S. E. S. 24 on S. W. and S. 13 on N. W. face, with 3 notch 20 on S. and 3 notch 20 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.

W. B. T. 12 N. R. 19 E. G. & S. R. M.

Chains.

North on a true line between sections 13 and 18

Va. $13^{\circ}45'$ 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
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.

46.00 Enter Valley, bears, E. $\frac{3}{4}$ W.67.50 Cross Road, bears, E. $\frac{3}{4}$ W.

80.00 Set a sand stone $16 \times 10 \times 9$ 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 W. edges and
raised a mound of stone. alongside Pits impracticable,
from which

A Juniper 10 ins. diam. bears N. $13^{\circ}E$, 120 lks. dist.
marked T. 12 N., R. 19 E., S., 7 B. T.

A Juniper 8 ins. diam. bears S. $60^{\circ}E$, 71 lks. dist.
marked T. 12 N., R. 19 E., S., 18 B. T.

No other trees within limits.

Land rolling.

Soil $\frac{3}{4}$ rate.

Timber of Pine $\frac{3}{4}$ Juniper.
Vegetation, bunchgrass.

W. B. T. 12 N. R. 19 E. G. & S. R. M.

ains.

North on a true line between sections 7^{and} 12.
Va. 130° 5' East.

Descend.

2.16 Cross Wash, 26 lks. wide, Course N. 10° E.

18.80 Cross ^{same} Wash, 26 lks. wide, Course N. 30° W.

23.10 Cross ^{same} Wash, 26 lks. wide, Course N. 60° E. and ascend.

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.

76.00 Leave Valley, bears N. 80° E. and S. 80° W.

80.00 Set a lime stone 24 x 16 x 8 ins. 18 ins. in
the ground for Cor. to Secs. 1, 6, 7 ^{and} 12, marked
with 5 notch on S. and 1 notch on ~~N~~ edges and
raised a mound of stone. alongside Pits impracticable.
from which

A Pine 6 ins. diam. bears N. 50° E., 67 lks. dist.
marked T. 12 N., R. 19 E., S., 6 B. T.

A Pine 4 ins. diam. bears S. 56° E., 26 lks. dist.
marked T. 12 N., R. 19 E., S., 7 B. T.

A Pine 10 ins. diam. bears S. 87° W., 32 lks. dist.

W. B. T. 12 N. R. 19 E. G. & S. R. M.

Chains.

marked T. 12 N., R. 18 E., S., 12 B. T.

No other trees within limits.

Land rolling.

Soil 3rd rate.Timber of Pine & Juniper
Vegetation, bunchgrass.North on a true line between sections 1st and 6.Va. $13^{\circ}45'$ East.

Ascend.

40.00 Set a post 3 ft. long, 3 ins. diam. with marked stone.
12 ins. in the ground, for $\frac{1}{4}$ 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.

43.00 Intersect the 3rd Standard Parallel North at a
point 21.69 chs. East of the Standard Cor. to

7th Sec. 13 N., R. 18th and 19th E., which is a
post, with marked stone, set
firmly in the ground, marked
S. E. of 13 N. on N.; R. 19 E. S. 31 on E.
and R. 18 E., S. 36 on W. faces, with

W. B. T. 12 N. R. 19 E. G. & S. R. M.

Chains

Notches on N, E & W faces, with pits
 N, E & W of post in a mound of earth
 in good order around the post, and
 Set a post $4\frac{1}{2}$ ft. long, 4 ins. square, with marked
 stone 12 ins. in the ground, for Closing Cor. to
 Tps. 12N., R's 18 and 19E marked O. C.
 T: 12 N. on S. R. 19E . S. 6, on
 E, and R. 18E S., 1 on W. faces with 6
 notches on S, E & W faces, dug pits, 24 x 18 x
 12 ins, crosswise on each line, S, E & 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

A Pine 6 ins. diam. bears $\phi. 33^{\circ}W$, 7 lks. dist.
 marked T. 12N, R. 18E, S., 1 B. T.

A Pine 4 ins. diam. bears $N. 37^{\circ}E$, 71 lks. dist.
 marked T. 13N, R. 19E, S., 31 B. T.

No other trees within limits.

Land rolling.

Soil 3rd rate.

Timber of Pine & Juniper.

Vegetation, bunchgrass.

April 5th 1880.

98
E. B. T. 13 N R. 18 E. G. & S. R. M.

chains.

Standard
From the Cor. to Tps. 13 N. Rs. 18 & 19 E,

previously described, from
North on a true line between sections 31 and 36,
Va. 14° 15' East.

Ascend.

- 25.00 Top of Ridge, bears E. and W. and descend.
- 40.00 Set a Sand stone 24 x 16 x 4 ins., 18
ins. in the ground, for $\frac{1}{2}$ Sec. Cor., marked $\frac{1}{2}$ on W.
face, and raised a mound of stone. Pits
impracticable.
- 44.00 Head of Ravine, Course N. E. and ascend
- 72.00 Top of Ridge, bears N. E. and S. W. 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, 31, 36,
marked T. 13 N. S. 30, on N. E., R. 19 E, S. 31
on S. E. S. 36 on S. W. and S. 25 on N. W. faces,
with 1 notch on S. and 5 notches on ~~W~~ 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.
Land rolling. and mountainous.
Soil 3rd rate
Vegetation, bunchgrass.

E. B. T. 13 N. R. 18 E. G. & S. R. M.

Chains.

North on a true line between sections 25 ^{and} 30.

Va. 14°00' East.

Descend.

36.00 Cross Wash, 9 lks. wide, Course 71.10° E.

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.

69.50 Cross Wash, 15 lks. wide, Course N. W.

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. 13 N. S. 19, on N. E., R. 18 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 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 rolling.

Soil 3rd rate

Vegetation, bunchgrass.

00
 E. B. T. 13 N. R. 18 E. G. & S. R. M.

ains.

Ch

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

Va. 13°45' 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

W. face, dug pits, 18 x 18 x 12 ins., E. 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. 13, 18, 19 & 24,

marked T. 18 N. S. 18, on N. E., R. 18 E., S. 19

on S. E. S. 24 on S. W. and S. 13 on N. W. faces,

with 3 notches on S. and 3 notches 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.

Land rolling.

Soil fine rate

Vegetation, bunchgrass.

E. B. T. 13 N. R. 18 E. G. & S. R. M.

ains.

North on a true line between sections 13 and 18.

V. 18° 30' East.

Ascend.

30.00 Top of Ridge, bears N. 20° E. and S. 20° 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.

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

12 ins. in the ground, for Cor. to Secs. 7, 12, 13 & 18,
marked T. 13 N. S. 7 on N. E., R 19 E, S. 18
on S. E. ^{R. 18 E} S. 13 on S. W and S. 12 on N. W. face,
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.

Land rolling. And mountainous.

Soil 3rd rate

Vegetation, bunchgrass.

E. B. T. 13 N. R. 18 E. G. & S. R. M.

Chains.

North on a true line between sections 7 ^{and 12},

Va. 13° 50' East.

Descend.

2.50 Cross Wash, 10 lks. wide, Course N. 25° 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
NW. 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. 1, 6, 7 ^{and 12},
marked T. 13 N. S. 6, on N. E., R. 18 E., S. 7
on S. E. ^{R. 18 E.} S. 12 on S. W. and S. 1 on N. W. faces,
with 5" notch ϵ 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.

Land rolling.

Soil 3rd rate

Vegetation, bunch grass.

E. B. T. 13 N. R. 18 E. G. & S. R. M.

Chains.

North on a true line between sections 1 and 6.

Va. 14° 00' East.

Ascend.

35.00 Top of Ridge, bears N. 27° E. $\frac{1}{2}$ of 27' 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.

59.00 Cross Wash, 10 lks. wide, Course N. 30° E. and ascend.

80.00 Set a sand stone 40 x 12 x 8 ins. in the ground, for Cor. to Tps. 13 and 14 N. R's 18 and 19 E., marked with 6 notches on each edge, and raised a mound of stone. ^{alongside} Pits impracticable.

Land rolling.

Soil 3rd rate

Vegetation, bunchgrass.

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

April 7th 1883.

706
W. B. T. 13 N. R. 18 E. G. & S. R. M.

Chains.

80.00

Set a Sand stone $22 \times 12 \times 4$ ins. 16 ins. in
the ground for Cor. to Secs. 19, 24, 25 & 30, marked
with 2 notches on S. and 4 notches on $\frac{N}{E}$ edges and
raised a mound of stone. alongside Pits impracticable
from which

A Juniper 6 ins. diam. bears $N. 70^{\circ} E.$, 36 lks. dist.
marked T. 13 $\frac{N}{4}$, R. 18 E , S., 19 B. T.

A Juniper 3 ins. diam. bears $S. 35^{\circ} W.$, 41 lks. dist.
marked T. 13 N , R. 17 E , S., 20 B. T.

No other trees within limits.

Land mountainous

Soil 3rd rate.

Timber of Juniper.

Vegetation, bunchgrass

W. B. T. 13 N. R. 14 E. G. & S. R. M.

Chains.

North on a true line between sections 19 and 24.
Va. 13°30' East.

Descend.

40.00

Set a line stone 20 x 16 x 6 ins., 15 ins. in the ground, for 1/4 Sec. Cor., marked 1/4 on W. face, and raised a mound of stone. alongside Pits impracticable.

from which

A Juniper 4 ins. diam. bears S. 75° W., 25 lks. dist. marked 1/4 S. B. T.

A Pine 7 ins. diam. bears S. 35° E., 17 lks. dist. marked 1/4 S. B. T.

69.50

Cross Wash, 16 lks. wide, Course N. E. and ascend.

80.00

Set a line stone 28 x 18 x 8 ins. 21 ins. in the ground for Cor. to Secs. 17, 18, 19 & 24, marked with 3 notches on S. and 3 notches on N. edges and raised a mound of stone. alongside Pits impracticable.

from which

A Pine 8 ins. diam. bears N. 30° E., 3 lks. dist. marked T. 13 W., R. 14 E., S. 18 B. T.

A Pine 5 ins. diam. bears S. E., 34 lks. dist. marked T. 13 W., R. 18 E., S. 19 B. T.

Chains.

A Pine 7 ins. diam. bears N. 38° W., 61 lks. dist. marked T. 13 W., R. 17 E., S., 13 B. T.

No other trees within limits.

Land mountainous

Soil 3rd rate.

Heavy timber of Pine.

Vegetation, bunchgrass.

North on a true line between sections 13 and 14.

Var. 13° 30' East.

Ascend.

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

21.60 Cross Wash, 12 lks. wide, Course N. 50° E. and ascend.

40.00 Set a Sandstone 26 x 18 x 8 ins., 19 ins. in the ground, for 1/4 Sec. Cor., marked 1/4 on W. face, and raised a mound of stone. alongside Pits impracticable.

from which

A Pine 14 ins. diam. bears N. 38° E., 63 lks. dist. marked 1/4 S. B. T.

A Pine 8 ins. diam. bears S. 15° W., 80 lks. dist.

Chains.

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

80.00

Set a sand stone $30 \times 20 \times 10$ ins. 22 ins. in the ground for Cor. to Secs. 7, 12, 13 & 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 Pine 5 ins. diam. bears $N. 35^{\circ} E.$, 26 lks. dist. marked T. 13 N, R. 14 E, S., 7 B. T.

A Pine 4 ins. diam. bears $S. 42^{\circ} W.$, 66 lks. dist. marked T. 13 N, R. 17 E, S., 13 B. T.

No other trees within limits.

Land mountainous

Soil 3rd rate.

Heavy timber of Pine.

Vegetation, bunchgrass.

W. B. T. 13 N. R. 18 E. G. & S. R. M.

Chains.

North on a true line between sections 7 and 12.

Va. 13° 30' East.

Ascend.

25.00 Top of Spur, 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 1/4 Sec. Cor., marked 1/4 S. on SW. 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.

65.00 Cross Wash, 8 lks. wide, Course E. and ascend.

80.00 Set a lime stone 27 x 20 x 4 ins. 20 ins. in the ground for Cor. to Secs. 1, 6, 7 and 12, marked with 5 notches on S. and 1 notch on W. 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. alongside

Land mountainous

Soil good rate.

Timber of Pine.

Vegetation, bunchgrass

Chains.

North on a true line between sections 1 ^{and 6.}
 Va. 13° 30' East.

Ascend.

1.00 Top of Spur, bears E. and W. and descend.

33.31 Cross Creek, 25 lks. wide, Course N. W. and ascend.

40.00 Set a limestone 20 x 8 x 7 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 13 ins. diam. bears S. 86° E., 55 lks. dist. marked $\frac{1}{2}$ S. B. T.

A Pine 4 ins. diam. bears N. 54° W., 20 lks. dist. marked $\frac{1}{2}$ S. B. T.

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

80.00 Set a limestone 21 x 15 x 9 ins. 16 ins. in the ground, for Cor. to Tps. 13 and 14 N. R's 17 and 18 E., marked with 6 notches on each edge, and raised a mound of stone. alongside Pits impracticable.

Land mountainous

Soil 3rd rate.

Timber of Pine.

Vegetation, bunchgrass.

N. B. T. 13 N. R. 18 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 $34^{\circ} 31'$ North,
From the Cor. to Tps. 13 & 14 N., Rs. 17. & 18 E.
I ~~run~~ ^{just set by me.} East. on a random line on N. B. of Tp.

Va. $13^{\circ} 30'$ East.

I set temporary corners at every half mile, and at 6 miles 5.12 chs. I arrive at a point 290 lks. South of Cor. to Tps, previously set by me.
13 & 14 N., Rs. 18 & 19 E. from which corner I run S. $89^{\circ} 39'$ W. on a true line between sections 1 & 36.

Va. $14^{\circ} 00'$ East.

Ascend.

27.00 Top of Ridge, bears N. $20^{\circ} E.$ ^{Qu. N. 20 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 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.

53.15 Cross Wash, 20 lks. wide, Course N. and ascend.

U. B. T. 13 N. R. 18 E. G. & S. R. M.

Chains.

80.00

Set a Sand stone $24 \times 16 \times 4$ ins. 18 ins. in
 the ground for Cor. to Secs. 1, 2, 35th and 36, marked
 with 5 notches on W and 1 notch on E. edges and
 raised a mound of stone. alongside Pits impracticable.
 Land mountainous
 Soil 3rd rate.
 Timber of Juniper
 Vegetation, bunchgrass.

S. 89° 39' W. on a true line between sections 2nd and 35.
 Va. 14° 00' East.

Ascend.

34.50

Top of Spur, bears N. 27° E. ⁹⁰ S. 27° 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
 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.

54.25

Cross Wash, 8 lks. wide, Course N. E. and ascend.

80.00

Set a sand stone $14 \times 10 \times 8$ ins. 7 ins. in
 the ground for Cor. to Secs. 2, 3, 34th and 35, marked
 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. alongside

U. B. T. 13 N. R. 18 E. G. & S. R. M.

Chains.

Land mountainous

Soil 3rd rate.

Timber of Juniper and Cedar.

Vegetation, bunchgrass.

S. 89° 39' W on a true line between sections 3 and 34.

Va. 13° 50' East.

Ascend.

- 9.00 Top of Ridge, bears N. ⁴⁴/₄ S. and descend.
- 40.00 Set a line stone 16 x 10 x 7 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.
- 41.50 Cross Wash, 10 lks. wide, Course N. 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. 3, 4, 33 & 34, marked T. 14 N. S. 34, or N. E., R 18 E., S. 3 on S. E. S. 4 on S. W. and S. 33 on N. W. face, 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.
- Land mountainous.
- Soil 3rd rate
- Vegetation, bunchgrass.

U. B. T. 13 N. R. 18 E. G. & S. R. M.

Chains.

S. 89° 39' W on a true line between sections 4 ^{and} 33.

Va. 13° 50' East.

Ascend.

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, 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.

46.00 Top of Ridge, bears N. and S. and descend.

78.50 Cross Wash, 10 lks. wide, Course 71.27 E. and ascend.

80.00 Set a lime stone 24 x 16 x 10 ins. 18 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.

Land mountainous.

Soil 3rd rate

Vegetation bunchgrass

11.13 T. 13 N. R. 18 E. G. & S. R. M.

Chains.

S. $89^{\circ} 39' W$ on a true line between sections 5 and 32.

Va. $13^{\circ} 58'$ 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

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 Cedar 8 ins. diam. bears S. $70^{\circ} E$, 41 lks. dist.

marked $\frac{1}{2}$ S. B. T. No other trees within limits.

66.00

Top of Spur, bears N. $42^{\circ} S$ 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. 5, 6, 31 & 32,

marked T. 14 N. S. 32, on N. E., R. 18 E., S. 5

on S. E. ^{S. 12 N.} 6 on S. W. and S. 31 on N. W. faces,

with 1 notch on W and 5 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 Pine 6 ins. diam. bears S. $58^{\circ} E$, 105 lks. dist.

marked T. 13 N., R. 18 E., S. 5 B. T.

A Pine 5 ins. diam. bears N. $76^{\circ} W$, 56 lks. dist.

marked T. 14 N., R. 18 E., S. 31 B. T.

U. B. T. 13 N. R. 18 E. G. & S. R. M.

chains.

A Cedar 4 ins. diam. bears S. 60° W., 70 lks. dist.
marked T. 134, R. 18 E, S., 6 B. T.

No other trees within limits.

Land mountainous

Soil 3rd rate.

Heavy timber of Pine and Cedar.

Vegetation, bunchgrass.

S. 89° 39' W. on a true line between sections 6 and 31.

Va. 13050' East.

Descend.

40.00 Set a post 3 ft. long, 3 ins. diam. with marked stone.
12 ins. in the ground, for 1/2 Sec. Cor., marked 1/2 S. on
N. face, dug pits, 18 x 18 x 12 ins., E. and W. 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.

85.12 The Cor. to Tps. 13 & 14 N. Rs. 17 & 18E,
from which I started -
land mountainous

Soil 3rd rate.

Timber of Pine and Cedar.

Vegetation, bunchgrass.

April 9th 1883.

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U. S. Surveyor General's Office,

Tucson, Arizona, July 31, 1883

The foregoing Field Notes of the Survey of ~~the~~ a
portion of the Exterior Lines
of Townships 10. 11. 12 & 17 North
Ranges 18. 19. 24 & 25. East

Of the Gila and Salt River Base and Meridian, Arizona, execu-
ted by H. A. Cox

Deputy Surveyor, under his contract of the 25th

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

J. W. Peckham
Surveyor General.