

1398

BOOK 1398

1398

FIELD NOTES
OF THE SURVEY OF
A PORTION OF THE EXTERIOR LINES OF
Ts. 9, 10, 16 and 17 N., Rs. 20,
21, 22, 23, 30 and 31 E.

Gila and Salt River Meridian,
ARIZONA.

(Retracing a portion of the
Bdy. bet. Arizona & New Mexico.)

By O. D. Wheeler, D. S. under
Contract of July 17, 1882.
Survey commenced Jan. 22, 1883.
Survey completed April 4, 1883.

N + W. T. 9 N,	R. 23 E,
W " 10 "	" 23 "
N W " 9 "	" 22 "
W " 10 "	" 22 "
N " 10 "	" 21 "
N " 9 "	" 21 "
NW " 9 "	" 20 "
E + W " 16 "	" 30 "
<u>Retraced E</u> " 17 "	" 31 "

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For preliminary
 notes and description
 of instrument used
 see book No. 1

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Chains.

Before proceeding further with the exteriors of this Twp., I made a change of 6 minutes in the latitude arc of my solar compass by subtracting same from the reading previously given, and at noon verified and same by observation on the sun. I also furnished instrument by reversing.

1	2	3	4	5	6
7	8	9	10	11	12
13	14	15	16	17	18
19	20	21	22	23	24
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Standard or. to Tps. 9 N. Rs. 22 & 23 E,

set by me. I run,

BOOK 1898 true line between sections 31 and 36.

Va. 130 45' East.

Descend.

12.10 Cross Wash, 8 lks. wide, Course N. 47 1/2 and ascend.

40.00 Set a basalt stone 18 x 10 x 10 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

a Yellow Pine 16 ins. diam. bears S. 17° E, 34 lks. dist. marked 1/4 S. B. T.

a Yellow Pine 14 ins. diam. bears S. 23° W, 31 lks. dist. marked 1/4 S. B. T.

72.50 a Spring, near W, 189 lks. dist.

W. B. T. 9 N. R. 23 E. G. & S. R. M.

Chains.

80.00

Set a Casact stone $15 \times 18 \times 18$ ins. 10 ins. in
the ground for Cor. to Secs. 25, 30, 31 and 32, marked
with / notch on S. and 5 notches on ~~W~~ edges and
raised a mound of stone. alongside. Pits impracticable.
from which

1 Yellow Pine 20 ins. diam. bears $N. 30^{\circ} E.$, 155 lks. dist.
marked T. 9N, R. 23E, S., 30 B. T.

1 Yellow Pine 22 ins. diam. bears $S. 78^{\circ} E.$, 43 lks. dist.
marked T. 9N, R. 23E, S., 31 B. T.

1 Yellow Pine 21 ins. diam. bears $S. 10^{\circ} W.$, 35 lks. dist.
marked T. 9N, R. 22E, S., 36 B. T.

1 Yellow Pine 16 ins. diam. bears $N. 56^{\circ} W.$, 18 lks. dist.
marked T. 9N, R. 22E, S., 25 B. T.

Land mountainous

Soil 3rd rate,

Heavy timber of Pine and Oak.

Undergrowth of same.

W. B. T. 9 N. R. 23 E. G. & S. R. M.

Chains.

North on a true line between sections 25^W 30.

Va. 13° 40' East.

Descend.

7.00 Cross Road, bears, N. W. ^{1/4} S. E.28.20 ^{Spur} Cross Creek, 19 lks. wide, Course N. 44° W. and ascend.40.00 Set a basalt stone 16 x 10 x 10 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.

68.14 Top of Spur, bears N. 80° W. and descend.

80.00 Set a basalt stone 20 x 15 x 9 ins. 15 ins. in the ground for Cor. to Secs. 19, 24, 25^W 30, marked with 2 notches on S. and 4 notches on W. edges and raised a mound of stone. alongside. Pits impracticable. from which

A Juniper 33 ins. diam. bears S. 57° E, 54 lks. dist. marked T. 94, R. 236, S., 30 B. T.

A Yellow Pine 20 ins. diam. bears S. 51° W, 87 lks. dist. marked T. 94, R. 226, S., 25 B. T.

No other trees within limits.

Land mountainous

Soil 3rd rate,

Heavy timber of Pine & Oak.

Undergrowth of same.

Chains.

North on a true line between sections 19^{and} 24.Va. $13^{\circ} 20'$ East.

Descend.

40.00

Set a *lava* stone $15 \times 14 \times 5$ ins., 10 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 40 ins. diam. bears $S. 40^{\circ} E$, 27 lks. dist. marked $\frac{1}{4}$ S. B. T.

A Juniper 16 ins. diam. bears $S. 68^{\circ} W$, 50 lks. dist. marked $\frac{1}{4}$ S. B. T.

67.60

Cross Gulch, 7 lks. wide, Course $N 50^{\circ} W$ and ascend.

75.00

Top of *hill* and descend.

80.00

Set a *lava* stone $14 \times 16 \times 11$ ins. 14 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.

from which

A Yellow Pine 14 ins. diam. bears $N. 61^{\circ} E$, 94 lks. dist. marked T. 9 N., R. 23 E., S., 18 B. T.

A Yellow Pine 9 ins. diam. bears $S. 41^{\circ} E$, 47 lks. dist. marked T. 9 N., R. 23 E., S., 19 B. T.

W. B. T. 9 N. R. 23 E. G. & S. R. M.

chains.

1 Yellow Pine 6 ins. diam. bears $S. 55^{\circ} W$, 45 lks. dist.
marked T. 9 N., R. 22 E., S., 24 B. T.

1 Yellow Pine 5 ins. diam. bears $N. 27^{\circ} W$, 17 lks. dist.
marked T. 9 N., R. 22 E., S., 13 B. T.

Land hilly

Soil 3rd rate,

Heavy timber of Pine, Oak and juniper.

Undergrowth of same.

North on a true line between sections 13rd and 18.

Va. $13^{\circ} 25'$ East.

Descend.

9.84 Cross Brook, 7 lks. wide, Course $N. 82^{\circ} W$ and ascend.

21.00 Cross Road, bears, $N. 52^{\circ} E$

40.00 Set a corner stone $28 \times 13 \times 6$ ins., 17
ins. in the ground, for $\frac{1}{4}$ Sec. Cor., marked $\frac{1}{4}$ on W.
face, and raised a mound of stone. alongside. Pits
impracticable.

from which

1 Yellow Pine 5 ins. diam. bears $N. 67^{\circ} E$, 19 $\frac{1}{2}$ lks. dist.
marked $\frac{1}{4}$ S. B. T.

1 Yellow Pine 30 ins. diam. bears $S. 54^{\circ} W$, 56 lks. dist.
marked $\frac{1}{4}$ S. B. T.

W. B. T. 9 N. R. 23 E. G. & S. R. M.

Chains.

An old corner, bears $N. 86^{\circ} W.$, 7 rods dist.
55.00 Top of Spur, bears $N. 60^{\circ} W.$ and descend.
79.95 Cross Creek, 17 lks. wide, Course $S. 83^{\circ} W.$ and ascend.
80.00 Set a Basalt stone $14 \times 10 \times 8$ ins. 9 ins. in
the ground for Cor. to Secs. 7, 12, 13rd marked
with 4 notches on S. and 2 notches on W edges and
raised a mound of stone. alongside. Pits impracticable.
from which

A Yellow Pine 17 ins. diam. bears $S. 64^{\circ} E.$, 120 lks. dist.
marked T. 9 N., R. 23 E., S., 18 B. T.

A Yellow Pine 5 ins. diam. bears $S. 68^{\circ} W.$, 186 lks. dist.
marked T. 9 N., R. 23 E., S., 13 B. T.

No other trees within limits.

Land mountainous

Soil 3rd rate,

Heavy timber of Pine & Oak.

Undergrowth of same.

W. B. T. 9 N. R. 23 E. G. & S. R. M.

Chains.

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

Va. $13^{\circ}40'$ East.

Ascend.

40.00

Set a *Basalt* stone $15 \times 11 \times 6$ ins., 10 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 White Oak 6 ins. diam. bears $N. 63^{\circ}E$, 94 lks. dist. marked $\frac{1}{4}$ S. B. T.

A White Oak 8 ins. diam. bears $N. 35^{\circ}W$, 52 lks. dist. marked $\frac{1}{4}$ S. B. T.

79.12

Top of *Dunes*, bears $N. 53^{\circ}E$ and descend.

80.00

Set a *Basalt* stone $30 \times 14 \times 5$ ins. 22 ins. in the ground for Cor. to Secs. 1, 6, 7^{and} 12, marked with 5 notches on S. and 1 notch on E. edges and raised a mound of stone. alongside. Pits impracticable. from which

A White Oak 9 ins. diam. bears $N. 12^{\circ}E$, 15 lks. dist. marked T. 74, R. 23E, S., 6 B. T.

A White Oak 11 ins. diam. bears $N. 89^{\circ}W$, 26 lks. dist. marked T. 91, R. 22E, S., 1 B. T.

W. B. T. 9 N. R. 23 E. G. & S. R. M.

Chains.

A Yellow Pine 7 ins. diam. bears $S. 39^{\circ} E.$, 137 lks. dist.
marked T. 9 N., R. 23 E. S., 7 B. T.

No other trees within limits.

Land mountainous

Soil 7^{th} rate,

Heavy timber of Pine and Oak.

Undergrowth of same.

North on a true line between sections 1 & 6.

$V. 13010'$ East.

Descend.

40.00 Set a basalt stone $24 \times 16 \times 6$ ins., 18
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 15 ins. diam. bears $S. 63^{\circ} W.$, 40 lks. dist.
marked $\frac{1}{4}$ S. B. T.

A White Oak 8 ins. diam. bears $S. 39^{\circ} E.$, 56 lks. dist.
marked $\frac{1}{4}$ S. B. T.

80.00 Set a basalt stone $22 \times 14 \times 6$ ins., 16 ins. in the
ground, for Cor. to Tps. 9 and 10 N. R's 22 and
23 E., marked with 6 notches on each edge, and raised a
mound of stone. alongside. Pits impracticable.

Chains.

from which

A Yellow Pine 5 ins. diam. bears $S 57^{\circ} W$, 70 lks. dist.
marked T. 94, R. 22 E, S., 1 B. T.

A Yellow Pine 36 ins. diam. bears $N 82^{\circ} E$, 65 lks. dist.
marked T. 104, R. 23 E, S., 31 B. T.

A White Oak 6 ins. diam. bears $N 46^{\circ} W$, 27 lks. dist.
marked T. 104, R. 22 E, S., 36 B. T.

No other trees within limits.

Land mountainous

Soil 3rd rate,

Heavy timber of Pine & Oak.

Undergrowth of same.

U. B. T. 9 N. R. 23 E. G. & S. R. M.

Chains.

Before proceeding further with the exteriors of this Tp., I made a change of 6 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.

From the Cor. to Tps. 9 & 10 N, Rs. 22 & 23 E, ^{pts. established}
 I run East on a random line on U. B. of Tp.
 Pa. 13° 33' East.

I set temporary corners at every half mile, and at 6 miles 2.26chs. I arrive at a point 110 lks. North of Cor. to Tps,

9th & 10th N, Rs. 23rd & 24th E, which is a basalt stone, set firmly in the ground, marked with 6 notches on each edge and with a mound of stone, in good order, along side, from which

1 Yellow Pine 28 ins. diam. bears N. 14° W, 83 lks. dist. marked T. 9 N, R. 23 E, S., 1 B. T.

1 Yellow Pine 24 ins. diam. bears N. 58° W, 170 lks. dist. marked T. 10 N, R. 23 E, S., 36 B. T.

Chains.

From which corner I run.

N. 89° 52' W. on a true line between sections 1st and 36.

Va. 13° 00' East.

Descend.

40.00 Set a basalt stone 15 x 12 x 6 ins., 10 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 14 ins. diam. bears S. 67° E, 84 lks. dist. marked $\frac{1}{4}$ S. B. T.

A Yellow Pine 19 ins. diam. bears N. 32° E, 74 lks. dist. marked $\frac{1}{4}$ S. B. T.

46.40 Cross Wash, 9 lks. wide, Course N. 21° W. and ascend.

70.30 Cross Road, bears, S. W.

80.00 Set a basalt stone 19 x 17 x 10 ins. 12 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 and rolling.

Soil 3rd rate.

Timber of Pine and Oak.

Vegetation, bunchgrass.

N.B. T. 9 N. R. 23 E. G. & S. R. M.

Chains.

N. 89° 52' W. on a true line between sections 2nd & 3rd.

Va. 12° 30' East.

Ascend.

16.00 Top of Spur, bears N. 44° W. and descend.

40.00 Set a Basalt stone 24 x 16 x 9 ins., 18 ins. in the ground, for 1/2 Sec. Cor., marked 1/2 on N. face, and raised a mound of stone. alongside. Pits impracticable.

70.00 Cross Wash, 10 lks. wide, Course N. 46° W. and ascend.

80.00 Set a Basalt stone 24 x 12 x 10 ins. 18 ins. in the ground for Cor. to Secs. 2, 3, 34 & 35 marked with 4 notches on N. and 2 notches on E. edges and raised a mound of stone. alongside Pits impracticable. from which

1 Yellow Pine 17 ins. diam. bears S. 56° W. 182 lks. dist. marked T. 9 N., R. 23 E., S., 3 B. T.

No other trees within limits.

Land mountainous

Soil 3rd rate.

Timber of Pine & Oak.

Vegetation, bunch grass.

N. B. T. 9 N. R. 23 E. G. & S. R. M.

Chains.

N. 89° 52' W. on a true line between sections 3 & 34.

Va. 12° 40' East.

Ascend.

27.09 1 Yellow Pine 13 ins. diam.

40.00 Set a basalt stone 17 x 16 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

1 Yellow Pine 8 ins. diam. bears N. 12° W, 32 lks. dist. marked $\frac{1}{2}$ S. B. T.1 Yellow Pine 18 ins. diam. bears S. 5° E, 59 lks. dist. marked $\frac{1}{2}$ S. B. T.

52.57 1 Yellow Pine 10 ins. diam.

80.00 Set a basalt stone 20 x 11 x 9 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. Land mountainous

Soil 3rd rate.

Timber of Pine and Oak.

Vegetation, bunchgrass.

T. 9 N. R. 23 E. G. & S. R. M.

Chains,

N. 89° 52' W. on a true line between sections 4 ^{and} 33.
Va. 120' 15" East.

Ascend.

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

40.00 Set a Basalt stone 16 x 9 x 7 ins., 11 ins. in the ground, for 1/4 Sec. Cor., marked 1/4 on N. face, and raised a mound of stone. alongside. Pits impracticable.

from which

A Yellow Pine 12 ins. diam. bears N. 40° W, 48 lks. dist. marked 1/4 S. B. T.

A Juniper 17 ins. diam. bears S. 9° W, 92 lks. dist. marked 1/4 S. B. T.

52.03 Cross Wash, 6 lks. wide, Course N. and ascend.

59.00 A Yellow Pine 12 ins. diam.

80.00 Set a Basalt stone 30 x 20 x 10 ins. 22 ins. in the ground for Cor. to Secs. 4, 5, 32 ^{and} 33, marked with 2 notches on W and 4 notches on E. edges and raised a mound of stone. alongside. Pits impracticable. from which

A Yellow Pine 13 ins. diam. bears N. 65° E, 49 lks. dist. marked T. 10 1/4, R. 23 E, S., 33 B. T.

chains.

A Yellow Pine 10 ins. diam. bears $\text{U. } 55^{\circ} \text{E}$, 36 lks. dist.
marked T. 911, R. 23 E, S., 4 B. T.

A Fir 7 ins. diam. bears $\text{U. } 34^{\circ} \text{W}$, 26 lks. dist.
marked T. 911, R. 23 E, S., 5 B. T.

No other trees within limits.

Land mountainous

Soil 3rd rate,

Heavy timber of Pine and Oak,

Undergrowth of same.

$\text{N. } 89^{\circ} 52' \text{W}$ on a true line between sections 5 and 82.

Va. $12^{\circ} 40'$ East.

Ascend.

25.40 Cross Road, bears, $\text{U. } 17^{\circ} \text{E}$.

40.00 Set a Basalt stone $19 \times 12 \times 6$ ins., 14
ins. in the ground, for $\frac{1}{4}$ Sec. Cor., marked $\frac{1}{4}$ on U.
face, and raised a mound of stone. alongside. Pits
impracticable.

from which

A White Oak 11 ins. diam. bears $\text{U. } 27^{\circ} \text{E}$, 50 lks. dist.
marked $\frac{1}{4}$ S. B. T.

A White Oak 21 ins. diam. bears $\text{U. } 22^{\circ} \text{W}$, 49 lks. dist.

T. 9 N. R. 23 E. G. & S. R. M.

ains.

Cha

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

46.90 Top of Spur, bears $N. 30^{\circ} E.$ 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. 5, 6, 31 ~~32~~,
 marked T. 104, S. 32, on N. E., R. 23 E, S. 5
 on S. E., S. 6 on S. W, and S. 31 on N. W. faces,
 with 1 notch on W and 5 notches on E. edges;
 and raised a mound of stone 2 ft. high, 4 $\frac{1}{2}$ ft. base
 around post. Pits impracticable. from which

A White Oak 10 ins. diam. bears $N. 29^{\circ} E.$, 57 lks. dist.
 marked T. 104, R. 23 E, S., 32 B. T.

A White Oak 4 ins. diam. bears $N. 59^{\circ} E.$, 123 lks. dist.
 marked T. 94, R. 23 E, S., 5 B. T.

A Yellow Pine 9 ins. diam. bears $N. 20^{\circ} W.$, 213 lks. dist.
 marked T. 94, R. 23 E, S., 6 B. T.

No other trees within limits
 Land mountainous

Soil 3rd rate,
 Heavy timber of Pine & Oak,
 Undergrowth of same.

No. 1698

ains.

$4.59^{\circ} 52' W$ on a true line between sections 6 and 31.

Va. $12^{\circ} 50'$ East

Descend.

5.37 1 Yellow Pine 15 ins. diam

36.30 1 Yellow Pine 17 ins. diam.

40.00 Set a basalt stone $19 \times 12 \times 9$ ins., 14 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

1 White Oak 10 ins. diam. bears $4.59^{\circ} E$, 23 lks. dist. marked $\frac{1}{4}$ S. B. T.

1 Yellow Pine 7 ins. diam. bears $5.66^{\circ} W$, 28 lks. dist. marked $\frac{1}{4}$ S. B. T.

82.26 The Cor. to Tps. 9 and 10 N. Rs. 22 & 23 E. see page 8

Land rolling.

Soil 3rd rate.

Heavy timber of Pine and Oak.

Undergrowth of same.

January 22nd 1883.

18
W. B. T. 10 N. R. 28 E. G. & S. R. M.

Chains.

From the Cor. to Tps. 9 & 10 N., Rs. 22. & 23 E,
~~recently established by me.~~
I run North on a random line on W. B. of Tp.

Va. 13° 33' East.

I set temporary corners at every half mile, and at 6 miles
, 30 chs. I arrive at a point 69 lks. East. of Cor. to Tps,

10th 11th, Ro. 22nd & 23rd E,
which is a basalt stone, 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. 5° E. on a true line between sections 1st & 6.

Va. 14° 00' East.

Descend.

40. 30 Set a basalt stone 14 x 9 x 6 ins., 9
ins. in the ground, for 1/2 Sec. Cor., marked 1/2 on W.
face, and raised a mound of stone. alongside. Pits
impracticable.

80. 30 Set a basalt stone 18 x 10 x 3 ins. 12 ins. in
the ground for Cor. to Secs. 1, 6, 7th & 12, marked
with 5 notches on S. and 1 notch on E/edges and
raised a mound of stone. alongside. Pits impracticable.

Chains.

from which

1 Yellow Pine 24 ins. diam. bears $N. 5^{\circ} E.$, 67 lks. dist.
marked T. 104, R. 23E, S., 7 B. T.

2 Yellow Pine 5 ins. diam. bears $N. 88^{\circ} W.$, 132 lks. dist.
marked T. 104, R. 22E, S., 1 B. T.

No other trees within limits.

Land rolling.

Soil 3rd rate.

Timber of Pine ^{and} Juniper.

Vegetation, bunchgrass.

S. 5th E. on a true line between sections 7 and 12.

Va. 13th 00' East.

Descend.

85 Cross Creek, 50 lks. wide, Course $N. 15^{\circ} W.$ and ascend.

40.00 Set a lime stone 17 x 9 x 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.

58.55 Cross Wash, 18 lks. wide, Course $N. 9^{\circ} W.$

78.33 Cross Road, bears, $N. 85^{\circ} E.$

chains,

80.00 Set a Basalt stone 24 x 16 x 9 ins. 18 ins. in the ground for Cor. to Secs. 7, 12, 13rd & 18, marked with 4 notches on S. and 2 notches on W edges and raised a mound of stone. alongside, Pits impracticable. Land rolling.

Soil 3rd rate.
 Timber of Pine & Juniper.
 Vegetation, bunch grasses.

S. 5' E. on a true line between sections 13rd & 18.
 Va. 13° 00' East.

Over level land

40.00 Set a Basalt stone 18 x 10 x 4 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.

80.00 Set a Basalt stone 20 x 10 x 4 ins. 15 ins. in the ground for Cor. to Secs. 13, 18, 19th & 24, marked with 3 notches on S. and 3 notches on W edges and raised a mound of stone. alongside. Pits impracticable. Land level.

Soil 3rd rate
 Vegetation, bunch grasses.

ains.

S. 5° E. on a true line between sections 19th & 24th.
Va. 135 30' East.

Over level land

40.00 Set a basalt stone 19 x 12 x 4 ins., 14
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.

64.00 Foot of Ridge, bears E. $2\frac{1}{2}$ W. and ascend.

80.00 Set a basalt stone 15 x 9 x 3 ins. 10 ins. in
the ground for Cor. to Secs. 19, 24, 25th & 30, marked
with 2 notch es on S. and 4 notches on W edges and
raised a mound of stone. alongside, Pits impracticable.
from which

1 Juniper 12 ins. diam. bears S. 24° E., 244 lks. dist.
marked T. 10 N., R. 23 E., S., 30 B. T.

2 Juniper 16 ins. diam. bears S. 50° W., 189 lks. dist.
marked T. 10 N., R. 23 E., S., 35 B. T.

No other trees within limits.

Land level.

Soil 3rd rate.

Timber of Juniper.

Vegetation, bunchgrass.

W. B. T. 10 N. R. 23 E. G. & S. R. M.

Chains.

S. S. E. on a true line between sections 25th and 30.

Va. 130°40' East.

Ascend.

40.00

Set a basalt stone 15 x 9 x 7 ins., 10 ins. in the ground, for $\frac{1}{2}$ Sec. Cor., marked $\frac{1}{2}$ on W. face, and raised a mound of stone. alongside. Pits impracticable.

from which

A Juniper 15 ins. diam. bears N. 78° E., 53 lbs. dist. marked $\frac{1}{2}$ S. B. T.

A Juniper 12 ins. diam. bears N. 55° W., 41 lbs. dist. marked $\frac{1}{2}$ S. B. T.

80.00

Set a basalt stone 27 x 18 x 4 ins. 20 ins. in the ground for Cor. to Secs. 25, 30, 31 and 36, marked with / notch on S. and o notch on N edges and raised a mound of stone. alongside. Pits impracticable.

from which

A Juniper 28 ins. diam. bears N. 81° E., 226 lbs. dist. marked T. 10 N., R. 23 E., S., 30 B. T.

A Juniper 18 ins. diam. bears S. 24° E., 220 lbs. dist. marked T. 10 N., R. 23 E., S., 31 B. T.

A Juniper 18 ins. diam. bears S. 33° W., 2196 lbs. dist.

W.A. T. 10 N. R. 23 E. G. & S. R. M.

hains.

marked T. 10 N., R. 22 E., S., 36 B. T.

A Juniper 12 ins. diam. bears N. 67° W., 37 lks. dist.

marked T. 10 N., R. 22 E., S., 25 B. T.

Land rolling.

Soil 3rd rate,

Heavy timber of Juniper and Oak.

Undergrowth of same.

S. 5° E. on a true line between sections 31 and 36.

Va. 12° 38' East.

Ascend.

40.00 Set a basalt stone 16 x 10 x 5 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 8 ins. diam. bears S. 35° E., 138 lks. dist.

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

A Yellow Pine 14 ins. diam. bears S. 7° W., 97 lks. dist.

marked $\frac{1}{2}$ S. B. T.80.00 The Cor. to Tps. 9 and 10 N. Rs. 22 & 23 E.
Land rolling.Soil 3rd rate,

Heavy timber of Pine, Oak and Juniper.

Undergrowth of same.

W. B. T. 10 N. R. 23 E. G. & S. R. M.

Chains.

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

Jamaica, 23rd 1843.

W. B. T. 9 N. R. 22 E. G. & S. R. M.

Chains.

Before proceeding further with the exteriors of this T.p., I made a change of 6 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.

From the ^{Standard} Cor. to Tps. 9 N. Rs. 21 & 22^E,
previously set by me. I run,

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

Va. $13^{\circ} 50'$ East.

Ascend.

40.00 Set a sand stone $18 \times 13 \times 9$ ins., 12 ins. in the ground, for $\frac{1}{4}$ Sec. Cor., marked $\frac{1}{4}$ on W. face, and raised a mound of stone alongside. Pits impracticable.

from which

A Juniper 6 ins. diam. bears $S. 86^{\circ} W.$ 72 lks. dist. marked $\frac{1}{4}$ S. B. T.

A Yellow Pine 16 ins. diam. bears $N. 60^{\circ} E.$ 119 lks. dist. marked $\frac{1}{4}$ S. B. T.

71.00 Top of Ridge, bears $N. 65^{\circ} W.$ and descend.

80.00 Set a sand stone $26 \times 16 \times 9$ ins. 19 ins. in the ground for Cor. to Secs. 25, 30, 31 ^{and} 36, marked

W. B. T. 9. N. R. 22 E. G. & S. R. M.

Chains.

with / notch on S. and 5 notches on N. edges and
raised a mound of stone. alongside, Pits impracticable.

from which

1 Yellow Pine 21 ins. diam. bears $N. 64^{\circ} W.$, 70 lbs. dist.
marked T. 94, R. 21 E, S., 25 B. T.

2 Yellow Pine 10 ins. diam. bears $S. 70^{\circ} W.$, 81 lbs. dist.
marked T. 94, R. 21 E, S., 36 B. T.

3 White Oak 6 ins. diam. bears $S. 78^{\circ} E.$, 28 lbs. dist.
marked T. 94, R. 22 E, S., 31 B. T.

No other trees within limits.

Land mountainous

Soil 3rd rate,

Heavy timber of Pine and Oak.

Undergrowth of Oak and Mangrove.

W. B. T. 9 N. R. 22 E. G. & S. R. M.

Chains.

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

Va. 13° 33' East.

Descend.

32.11 Cross Creek, 75 lks. wide, Course S. 40° W. and ascend.

40.00 Set a sand stone 18 x 13 x 7 ins., 12 ins. in the ground, for $\frac{1}{4}$ Sec. Cor., marked $\frac{1}{4}$ on W. face, and raised a mound of stone. alongside. Pits impracticable.

from which

A Juniper 8 ins. diam. bears S. 86° W., 71 lks. dist. marked $\frac{1}{4}$ S. B. T.

No other trees within limits.

46.00 Top of Spur, bears N. 53° E. and descend.

80.00 Set a sand stone 21 x 9 x 6 ins. 16 ins. in the ground for Cor. to Secs. 19, 24, 25th & 30, marked with 2 notches on S. and 4 notches on W. edges and raised a mound of stone. alongside. Pits impracticable.

from which

A Yellow Pine 12 ins. diam. bears S. 47° W., 30 lks. dist. marked T. 9 N., R. 21 E., S., 25 B. T.

A Juniper 8 ins. diam. bears S. 29° E., 98 lks. dist. marked T. 9 N., R. 22 E., S., 30 B. T.

W. B. T. 9 N. R. 22 E. G. & S. R. M.

Chains.

A Yellow Pine 14 ins. diam. bears $N. 38^{\circ} W$, 101 lks. dist.
marked T. 94., R. 21 E, S., 24 B. T.

No other trees within limits.

Land mountainous

Soil 3rd rate,

Heavy timber of Pine and Juniper.

Undergrowth of cane.

North on a true line between sections 19 and 24.

Va. $18^{\circ} 20'$ East.

Descend.

8.60 A Yellow Pine 25 ins. diam.

19.15 Cross Creek, 30 lks. wide, Course S.W and ascend.

21.25 Cross Road, bears $N. 44^{\circ} E$.

40.00 Set a Sandstone $28 \times 11 \times 6$ ins., 21
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 White Oak 7 ins. diam. bears $S. 30^{\circ} E$, 84 lks. dist.
marked $\frac{1}{4}$ S. B. T.

W. B. T. 9 N. R. 22 E. G. & S. R. M.

Chains.

A Yellow Pine 12 ins. diam. bears S. 38° W., 90 lks. dist.
marked $\frac{1}{2}$ S. B. T.

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

55.35 Cross Wash, 9 lks. wide, Course S. 16° E. and ascend.

80.00 Set a sandstone 30 x 20 x ins. 22 ins. in
the ground for Cor. to Secs. 13, 18, 19 $\frac{1}{2}$ 24, marked
with 3 notches on S. and 3 notches on $\frac{1}{4}$ edges and
raised a mound of stone. alongside. Pits impracticable.
from which

A Yellow Pine 12 ins. diam. bears N. 17° W., 60 lks. dist.
marked T. 94, R. 21 E., S., 13 B. T.

A Yellow Pine 10 ins. diam. bears S. 85° E., 54 lks. dist.
marked T. 94, R. 22 E. S., 19 B. T.

A White Oak 10 ins. diam. bears S. 19° W., 26 lks. dist.
marked T. 94, R. 21 E., S., 24 B. T.

No other trees within limits.

Land mountainous

Soil 3rd rate,

Heavy timber of Pine $\frac{1}{2}$ Oak,

Undergrowth of same.

W. B. T. 9 N. R. 22 E. G. & S. R. M.

Chains.

North on a true line between sections 13^{and} 18.
Va. 13° 18' East.

Ascend.

40.00

Set a sand stone 15 x 12 x 8 ins., 10 ins. in the ground, for $\frac{1}{4}$ Sec. Cor., marked $\frac{1}{4}$ on W. face, and raised a mound of stone. alongside. Pits impracticable.

from which

1 Live Oak 6 ins. diam. bears $\text{cf. } 10^{\circ} \text{W}$, 18 lbs. dist. marked $\frac{1}{4}$ S. B. T.

1 Yellow Pine 8 ins. diam. bears $\text{cf. } 53^{\circ} \text{E}$, 20 lbs. dist. marked $\frac{1}{4}$ S. B. T.

80.00

Set a sand stone 24 x 16 x 8 ins. 18 ins. in the ground for Cor. to Secs. 7, 12, 13^{and} 18 marked with 4 notches on S. and 2 notch 20 on W edges and raised a mound of stone. alongside Pits impracticable. Land mountainous

Soil 3rd rate.

Timber of Pine and Oak.

Vegetation, bunchgrass.

Chains.

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

Va. 120 12' East.

Ascend.

7.00 Top of Hill bears N. W. and descend.

24.40 Cross Wash, 9 lks. wide, Course S 57° E, and ascend.

40.00 Set a sand stone 19 x 4 x 7 ins., 14 ins. in the ground, for $\frac{1}{4}$ Sec. Cor., marked $\frac{1}{4}$ on W. face, and raised a mound of stone. alongside. Pits impracticable.

from which

A Juniper 12 ins. diam. bears S. 62° E, 8 lks. dist. marked $\frac{1}{4}$ S. B. T.

No other trees within limits.

67.40 Top of Ridge, bears N. 47° E, and descend.

80.00 Set a sand stone 18 x 4 x 12 ins., 12 ins. in the ground for Cor. to Secs. 1, 6, 7^{sec} 12, marked with 5 notches on S. and 1 notch on W. edges and raised a mound of stone. alongside, Pits impracticable.

from which

A Yellow Pine 10 ins. diam. bears N. 52° W, 35 lks. dist. marked T. 9 H., R. 21 E., S., 1 B. T.

A Yellow Pine 9 ins. diam. bears S. W., 31 lks. dist.

W. B. T. 9 N. R. 22 E. G. & S. R. M.

chains.

marked T. 94, R. 216, S., 12 B. T.

1 Yellow Pine 6 ins. diam. bears N. 16° E, 36 lks. dist.

marked T. 94, R. 228, S., 6 B. T.

No other trees within limits.

Land mountainous

Soil *poor* rate,

Heavy timber of Pine and Oak.

Undergrowth of same.

North on a true line between sections 1 and 6.

Va. 13° 00' East.

Descend.

40.00

Set a sandstone 19 x 13 x 7 ins., 14 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 Yellow Pine 9 ins. diam. bears S. 40° E, 9 lks. dist. marked 1/4 S. B. T.

1 Yellow Pine 7 ins. diam. bears S. 88° W, 18 lks. dist. marked 1/4 S. B. T.

71.75 Cross Wash, 7 lks. wide, Course N. 72° W and ascend.

W.B. T. 9 N. R. 22 E. G. & S. R. M.

ains.

80.00 Set a sand stone 21 x 13 x 10 ins. 16 ins. in the ground, for Cor. to Tps. 9 and 104. R's 21 and 22E., marked with 6 notches on each edge, and raised a mound of stone. alongside. Pits impracticable. from which

A Yellow Pine 18 ins. diam. bears S. 21° W. 149 lbs. dist. marked T. 911, R. 21E, S., 1 B. T.

A Yellow Pine 10 ins. diam. bears S. 33° E, 133 lbs. dist. marked T. 911, R. 22E, S., 6 B. T.

A Yellow Pine 8 ins. diam. bears N. 60° E, 28 lbs. dist. marked T. 1011, R. 22E, S., 31 B. T.

A Live Oak 7 ins. diam. bears N. 59° W, 43 lbs. dist. marked T. 1011, R. 21E, S., 36 B. T.

Land mountainous

Soil good rate,

Heavy timber of Pine & Oak,

Undergrowth of same.

January 24th 1883.

M. B. T. 9 N. R. 22 E. G. & S. R. M.

Chains.

Before proceeding further with the exteriors of this Tp., I made a change of 6 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.

From the Cor. to Tps. 9 & 10 N., Rs. 21. & 22⁶,
 met established - by me
 I run East. on a random line on N. B. of Tp.

Va. $13^{\circ} 31'$ East.

I set temporary corners at every half mile, and at 5 miles 78.72 chs. I arrive at a point 92 lks. South of Cor. to Tps,

9th & 10 N., Rs. 22nd & 23⁶,

previously set by me. From which corner I run.

$\text{S. } 89^{\circ} 53' 4''$ on a true line between sections 1st & 36

Va. $13^{\circ} 33'$ East.

Ascend.

20.00 Top of Spur, bears N. $34^{\circ} E$. and descend.

40.00 Set a Gasact stone $19 \times 13 \times 7$ ins., 14 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

N. B. T. 9 N. R. 22 E. G. & S. R. M.

Chains:

A White Oak 5 ins. diam. bears N. 56°, 25 lbs. dist.
marked $\frac{1}{2}$ S. B. T.

A Yellow Pine 8 ins. diam. bears S. 56° E., 25 lbs. dist.
marked $\frac{1}{2}$ S. B. T.

57.35 Cross Wash, 9 lbs. wide, Course 7.25 W and ascend.

79.53 Top of Spur, bears N. W. and descend.

80.00 Set a basalt stone 18 x 14 x 10 ins. 12 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 Juniper 14 ins. diam. bears N. 21° E., 45 lbs. dist.
marked T. 10 W, R. 22 E, S., 36 B. T.

A White Oak 5 ins. diam. bears N. 84° W, 40 lbs. dist.
marked T. 10 W, R. 22 E, S., 35 B. T.

A Yellow Pine 16 ins. diam. bears S. 12° E., 109 lbs. dist.
marked T. 9 W, R. 22 E, S., 1 B. T.

No other trees within limits.

Land mountainous

Soil poor rate,

Heavy timber of Pine, Oak & Juniper.

Undergrowth of same.

N. A. T. 9 N. R. 22 E. G. & S. R. M.

Chains.

of $85^{\circ} 53' W$ on a true line between sections 2 ^{and} 35.

Va. $130^{\circ} 50'$ East.

Descend.

40.00

Set a basalt stone $19 \times 14 \times 7$ ins., 14 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 Yellow Pine 10 ins. diam. bears $N. 12^{\circ} E$, 19 lbs. dist. marked $\frac{1}{4}$ S. B. T.

A Juniper 18 ins. diam. bears $N. 60^{\circ} W$, 18 lbs. dist. marked $\frac{1}{4}$ S. B. T.

80.00

Set a basalt stone $16 \times 8 \times 7$ ins. 11 ins. in the ground for Cor. to Secs. 2, 3, 34 ^{and} 35 marked with 4 notches on N and 2 notches on E. edges and raised a mound of stone alongside. Pits impracticable.

from which

A Juniper 14 ins. diam. bears $N. 12^{\circ} E$, 71 lbs. dist. marked T. 10 N., R. 22 E., S., 35 B. T.

A Juniper 18 ins. diam. bears $S. 68^{\circ} E$, 83 lbs. dist. marked T. 9 N., R. 22 E., S., 2 B. T.

A Juniper 12 ins. diam. bears $S. 6^{\circ} W$, 172 lbs. dist.

Chains.

marked T. 9th, R. 22^E, S., 3 B. T.

A Juniper 15 ins. diam. bears N. 68° W., 175 lks. dist.

marked T. 10th, R. 22^E, S., 34 B. T.

Land rolling.

Soil 3rd rate,

Heavy timber of Pine, Oak and Juniper.

Undergrowth of same.

S. 89° 53' W. on a true line between sections 3rd and 34.

Va. 14° 00' East.

Descend.

40.00 Set a basalt stone 21 x 16 x 9 ins., 16 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.

59.55 Cross Creek, 30 lks. wide, Course N. 74° W. and ascend.

80.00 Set a basalt stone 19 x 14 x 7 ins. 14 ins. in the ground for Cor. to Secs. 3, 4, 33rd and 34, marked with 3 notch₂₀ on W and 3 notch₂₀ on E. edges and raised a mound of stone. alongside. Pits impracticable. from which

A Yellow Pine 4 ins. diam. bears S. 22° E., 150 lks. dist.

marked T. 9th, R. 22^E, S., 3 B. T.

N. B. T. 9 N. R. 22 E. G. & S. R. M.

Chains.

A Yellow Pine 6 ins. diam. bears $N. 59^{\circ} W$, 183 lks. dist.
marked T. 104, R. 22 E, S., 33 B. T.

No other trees within limits.

Land rolling.

Soil 3rd rate,

Heavy timber of Pinus Oak,

Undergrowth of same.

$S. 89^{\circ} 53' W$ on a true line between sections 4th 83.

Va. $13^{\circ} 50'$ East.

Ascend.

30.00 Top of Spur, bears $N. 28^{\circ} E$ and descend.

40.00 Set a basalt stone $17 \times 16 \times 8$ ins., 11
ins. in the ground, for $\frac{1}{4}$ Sec. Cor., marked $\frac{1}{4}$ on N.
face, and raised a mound of stone. alongside. Pits
impracticable.

from which

A Yellow Pine 8 ins. diam. bears $S. 22^{\circ} E$, 18 lks. dist.
marked $\frac{1}{4}$ S. B. T.

A Yellow Pine 5 ins. diam. bears $N. 8^{\circ} W$, 32 lks. dist.
marked $\frac{1}{4}$ S. B. T.

N.B. T. 9 N. R. 22 E. G. & S. R. M.

Chains,

80.00

Set a *Capact* stone $24 \times 18 \times 9$ ins. 11 ins. in the ground for Cor. to Secs. 4, 5, 32nd, 33, marked with 2 notches on ~~W~~ and 4 notches on E. edges and raised a mound of stone. alongside. Pits impracticable. from which

A Yellow Pine 20 ins. diam. bears $N. 22^{\circ} E$, 33 lks. dist. marked T. 10th, R. 22^d E, S., 33 B. T.

A Yellow Pine 16 ins. diam. bears $S. 9^{\circ} E$, 99 lks. dist. marked T. 9th, R. 22^d E, S., 4 B. T.

A Yellow Pine 7 ins. diam. bears $N. 40^{\circ} W$, 72 lks. dist. marked T. 10th, R. 22^d E S., 32 B. T.

A Live Oak 10 ins. diam. bears $S. 63^{\circ} W$, 92 lks. dist. marked T. 9th, R. 22^d E, S., 5 B. T.

Land mountainous

Soil 3rd rate.

Heavy timber of Pine & Oak.

Undergrowth of same.

ns.

S. 89° 53' W, on a true line between sections 5th & 32,

Va. 13° 15' East.

Descend.

3.30 Cross Apache to Snowflake road, bears N. 21° W.

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

13.97 Cross Road, bears, N. 20° E.

36.00 Cross Wash, 7 lks. wide, Course N. 33° E.

40.00 Set a sand stone 18 x 13 x 7 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 impracticable.

from which

A Yellow Pine 20 ins. diam. bears N. 35° E, 3 lks. dist. marked $\frac{1}{4}$ S. B. T.A Yellow Pine 28 ins. diam. bears S. 40° W, 3 lks. dist. marked $\frac{1}{4}$ S. B. T.80.00 Set a sand stone 21 x 14 x 8 ins. 16 ins. in the ground for Cor. to Secs. 5, 6, 31th & 32, marked with 1 notch on W and 5 notches on E. edges and raised a mound of stone. alongside. Pits impracticable.

from which

A Yellow Pine 9 ins. diam. bears N. 55° E, 3 lks. dist.

ins.

marked T. 104, R. 22E, S., 32 B. T.

A Yellow Pine 7 ins. diam. bears $\text{S. } 20^{\circ} \text{E.}$, 52 lks. dist.

marked T. 94, R. 22E, S., 5 B. T.

A Yellow Pine 8 ins. diam. bears $\text{S. } 10^{\circ} \text{W.}$, 62 lks. dist.

marked T. 94, R. 22E, S., 6 B. T.

A Yellow Pine 14 ins. diam. bears $\text{N. } 37^{\circ} \text{W.}$, 87 lks. dist.

marked T. 104, R. 22E, S., 31 B. T.

Land mountainous

Soil 300 rate,

Heavy timber of Pine and Oak.

Undergrowth of saw.

$\text{S. } 89^{\circ} 58' \text{W.}$ on a true line between sections 6 and 31.

$\text{Va. } 130^{\circ} 15'$ East.

Ascend.

40.00

Set a sand stone $20 \times 14 \times 6$ ins., 15 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 Yellow Pine 10 ins. diam. bears $\text{N. } 55^{\circ} \text{E.}$, 31 lks. dist.

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

Y. B. T. 9 N. R. 22 E. G. & S. R. M.

Chains.

1 Yellow Pine 9 ins. diam. bears S. 28° W., 20 lks. dist.
marked $\frac{1}{2}$ S. B. T.

43.00 Top of Ridge, bears N. 22° W. and descend.

78.72 The Cor. to Tps. 9th & 10th N. Rs. 21 & 22nd

Land mountainous

Soil 4th rate,

Heavy timber of Pine and Oak.

Undergrowth of same.

January 25th 1883.

48
W. B. T. 10 N. R. 22 E. G. & S. R. M.

From the Cor. to Tps. 9 & 10th, Rs. 21 & 22nd,
I run North on a random line on ~~the~~ B. of Tp.

Va. 130 31' East.

I set temporary corners at every half mile, and at 5 miles
78.16 chs. I arrive at a point 40 lks. West. of Cor. to Tps,

10th & 11th, Rs. 21st & 22nd,
which is a basalt stone, set
firmly in the ground, marked
with 6 notches on each edge
and with a mound of stone
in good order, alongside —

From which cor. from which

A Juniper 14 ins. diam. bears S. 60° W., 43 lks. dist.
marked T. 10th, R. 21st E. S., 1 B. T.

A Juniper 9 ins. diam. bears S. 78° E., 40 lks. dist.
marked T. 10th, R. 22nd E. S., 6 B. T.

A Juniper 9 ins. diam. bears N. 66° E., 82 lks. dist.
marked T. 11th, R. 22nd E. S., 31 B. T.

A Juniper 7 ins. diam. bears N. 9° E., 57 lks. dist.
marked T. 11th, R. 22nd E. S., 31 B. T.

W. B. T. 10 N. R. 22 E. G. & S. R. M.

Chains.

From which corner I run,

S. 3' W. on a true line between sections 1 and 6.

Va. 14° 00' East.

Ascend.

38.16 Set a basalt stone 18 x 15 x 9 ins., 12 ins. in the ground, for $\frac{1}{4}$ Sec. Cor., marked $\frac{1}{4}$ on W. face, and raised a mound of stone, alongside. Pits impracticable.

from which

A Juniper 14 ins. diam. bears S. 87° W., 69 lks. dist. marked $\frac{1}{4}$ S. B. T.

No other trees within limits.

78.16 Set a basalt stone 17 x 12 x 6 ins. 11 ins. in the ground for Cor. to Secs. 1, 6, 7 and 12, marked with 5 notches on S. and 1 notch on W. edges and raised a mound of stone. alongside. Pits impracticable. Land rolling.

Soil 3^m rate.

Timber of Juniper.

Vegetation, bunchgrass.

Chains.

S. 8° W. on a true line between sections 7 and 12.

Va. 13000' East.

Ascend.

10.00 Top of Divide, bears N. 80° W. and descend.

40.00 Set a sand stone 14 x 12 x 7 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.

59.75 Cross Creek, 20 lks. wide, Course W. and ascend.

63.00 Acabin, bears W. 10.24 chs. dist.

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 & 18, marked T. 104. S. 7, on N. E., R. 22 E., S. 18 on S. E. ^{R. 21 E.} S. 13 on S. W. and S. 2 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.

Land mountainous

Soil 3rd rate.

Timber of Pine and Juniper.

Vegetation, Green grass.

Chains.

S. 3' W. on a true line between sections 13 and 18.

Va. 13000' East.

Ascend.

5.75 Cross Road, bears N. 80° E.

31.36 Cross road from Snowflake to Fort Apache, bears N. 80° W.

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

80.00 Set a post 4 ft. long, 4 ins. square, with marked stone.
12 ins. in the ground, for Cor. to Secs. 13, 18, 19 and 24, marked T. 10 N. S. 18, on N. E., R. 22 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.

from which

A Juniper 12 ins. diam. bears S. 90° W., 14 lks. dist.
marked T. 10 N., R. 21 E., S., 24 B. T.

A Juniper 11 ins. diam. bears S. 30° E., 117 lks. dist.
marked T. 10 N., R. 22 E., S., 19 B. T.

W. B. T. 10 N. R. 22 E. G. & S. R. M.

Chains.

No other trees within limits.

Land rolling.

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

Vegetation, bunchgrass.

S. & W. on a true line between sections 19th & 24th.Va. 1300^d East.

Ascend.

40.00 Set a Sand stone 20 x 16 x 10 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.

57.85 A Yellow Pine 30 ins. diam.

54.38 A Yellow Pine 13 ins. diam.

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

80.00 Set a Sand stone 30 x 20 x 4 ins. 22 ins. in the ground for Cor. to Secs. 19, 24, 25 ^{and} 30, marked with 2 notches on S. and 4 notches on N. edges and raised a mound of stone. alongside. Pits impracticable. from which

A Yellow Pine 20 ins. diam. bears S. 65th W. 50 lks. dist.

Chains.

marked T. 10 N. R. 21 E, S., 25 B. T.

A Yellow Pine 21 ins. diam. bears N. 20° W., 29 lks. dist.

marked T. 10 N., R. 21 E, S., 24 B. T.

A Yellow Pine 18 ins. diam. bears S. 80° E., 44 lks. dist.

marked T. 10 N., R. 22 E, S., 30 B. T.

No other trees within limits.
Land mountainous

Soil 3rd rate.

Timber of Pine and Oak.

Vegetation, bunch grass.

S. 3' W. on a true line between sections 25th and 30

Va. 18° 36' East.

Descend.

2.00 Cross Road, bears, E. and W.

3.30 A Yellow Pine 20 ins. diam.

4.40 Cross Wash, 20 lks. wide, Course W. and ascend.

40.00 Set a sand stone 16 x 10 x 9 ins., 11 ins. in the ground, for $\frac{1}{4}$ Sec. Cor., marked $\frac{1}{4}$ on W. face, and raised a mound of stone. alongside. Pits impracticable.

from which

W. B. T. 10 N. R. 22 E. G. & S. R. M.

Chains.

A Yellow Pine 13 ins. diam. bears S. 6° E, 49 lks. dist. marked 1/4 S. B. T.

A White Oak 5 ins. diam. bears S. 50° W, 60 lks. dist. marked 1/4 S. B. T.

80.00

Set a Sand stone 17 x 11 x 6 ins. 11 ins. in the ground for Cor. to Secs. 25, 30, 31 and 36, marked with 1 notch on S. and 5 notches on W edges and raised a mound of stone. alongside. Pits impracticable. from which

A Yellow Pine 13 ins. diam. bears S. 30° E, 45 lks. dist. marked T. 104, R. 22 E, S., 31 B. T.

A Yellow Pine 14 ins. diam. bears S. 48° W, 86 lks. dist. marked T. 104, R. 21 E, S., 36 B. T.

A Yellow Pine 13 ins. diam. bears N. 50° W, 86 lks. dist. marked T. 104, R. 21 E, S., 25 B. T.

A White Oak 10 ins. diam. bears N. 51° E, 57 lks. dist. marked T. 104, R. 22 E, S., 30 B. T.

Land rolling.

Soil 3rd rates,

Heavy timber of Pine and Oak.

Undergrowth of same.

W. B. T. 10 N. R. 22 E. G. & S. R. M.

Chains.

S. 3' W. on a true line between sections 31^{and} 36.

Va. 130° 30' East.

Ascend.

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

39.00 Cross Wash, 20 lks. wide, Course N. 25° W. and ascend.

40.00 Set a sandstone 14 x 10 x 6 ins., 9 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 28 ins. diam. bears N. 50° E, 34 lks. dist. marked $\frac{1}{2}$ S. B. T.A White Oak 6 ins. diam. bears N. 50° W, 33 lks. dist. marked $\frac{1}{2}$ S. B. T.59.88 Top of Spur, bears E. ^{and} W. and descend.80.00 The Cor. to Tps. 9^{and} 10 N. Rs. 21 & 22 E.

Land mountainous

Soil 3rd rate,Heavy timber of Pine ^{and} Oak.

Undergrowth of same.

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

January 26th 1883.

N. B. T. 10 N. R. 21 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 $34^{\circ}16'$ North,

From the Cor. to Tps. 10 & 11 N., Rs. 20. & 21 E., previously set by me.

I run 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 5 miles 7856 chs. I arrive at a point 288 lks. North of Cor. to Tps.

10th & 11 N., Rs. 21st & 22 E.,

previously described,

From which corner I run

$78^{\circ}39'45''$ on a true line between sections 1st & 36.

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

Descend.

40.00 Set a basalt 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.

52
M. B. T. 10 N. R. 21 E. G. & S. R. M.

Chains.

from which

A Yellow Pine 9 ins. diam. bears $S. 72^{\circ} E.$, 29 lks. dist.
marked $\frac{1}{4}$ S. B. T.

A Yellow Pine 10 ins. diam. bears $N. 30^{\circ} E.$, 42 lks. dist.
marked $\frac{1}{4}$ S. B. T.

80.00

Set a Caswell stone $32 \times 18 \times 6$ ins. 24 ins. in
the ground for Cor. to Secs. 1, 2, 35th & 36 marked
with 5 notches on W and 1 notch on E. edges and
raised a mound of stone. alongside, Pits impracticable.

Land rolling.

Soil good rate,

Heavy timber of Pine and Oak.

Undergrowth of same.

N. B. T. 10 N. R. 21 E. G. & S. R. M.

Chains.

N 89° 39' W, on a true line between sections 2nd & 35.
Va. 13000' East.

Descend.

40.00 Set a Gasquet stone 22 x 12 x 7 ins., 16 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 Juniper 12 ins. diam. bears S. 32° W, 40 lks. dist. marked 1/2 S. B. T.

A Juniper 10 ins. diam. bears S. 40° E, 59 lks. dist. marked 1/2 S. B. T.

72.05 ^{Shaw Creek} Cross Creek, 30 lks. wide, Course N. 10° E. and ascend.

80.00 Set a Gasquet stone 40 x 20 x 6 ins. 30 ins. in the ground for Cor. to Secs. 2, 3, 34th & 35 marked with 4 notches on W and 2 notches on E. edges and raised a mound of stone. alongside. Pits impracticable.

from which

A Yellow Pine 22 ins. diam. bears N. 86° E, 32 lks. dist. marked T. 11 N., R. 21 E., S. 35 B. T.

A Juniper 30 ins. diam. bears N. 20° W, 140 lks. dist. marked T. 11 N., R. 21 E., S. 34 B. T.

54

N. B. T. 10 N. R. 21 E. G. & S. R. M.

chains.

No other trees within limits.
Land rolling.

Soil 3rd rate.

Timber of Pine & Juniper.

Vegetation, bare grasses.

N. 89° 39' W. on a true line between sections 3rd & 34.

Va. 13000' East.

Descend.

29.30 Cross road from Snowflake to
Camp Apache, bears N and S.

40.00 Set a lime stone 18 x 15 x 9 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
impracticable.

from which

A Yellow Pine 20 ins. diam. bears N. 55° W., 146 lks. dist.
marked $\frac{1}{4}$ S. B. T.

No other trees within limits.

60.00 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, 33rd & 34,
marked $\frac{1}{4}$ N. S. 34, on N. E., R. 21st E., S. 3
on S. E. S. 4 on S. W. and S. 33 on N. W. faces

N. B. T. 10 N. R. 21 E. G. & S. R. M.

Chains.

with 3 notch 20 on W and 3 notch 20 on E. 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 6 ins. diam. bears $\text{S. } 67^{\circ} \text{ W.}$, 113 lks. dist.
 marked T. 10 N., R. 21 E., S., 4 B. T.

A Juniper 5 ins. diam. bears $\text{S. } 34^{\circ} \text{ E.}$, 75 lks. dist.
 marked T. 10 N., R. 21 E., S., 3 B. T.

No other trees within limits.

Land rolling.

Soil 3rd rate.

Timber of Pine & Juniper.
 Vegetation, bunchgrass.

U. B. T. 10 N. R. 21 E. G. & S. R. M.

ains.

N. 89° 39' W. on a true line between sections 4th & 33rd

Va. 13° 00' East.

Ascend.

20.14 Top of Spur, bears N. and W. and descend:

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

A Juniper 40 ins. diam. bears N. 10° E., 202 lks. dist. marked 1/2 S. B. T.

No other trees within limits.

80.00 Set a Sand stone 16 x 16 x 9 ins. 11 ins. in the ground for Cor. to Secs. 4, 5, 32nd & 33rd, marked with 2 notches on W. and 4 notches on E. edges and raised a mound of stone. alongside Pits impracticable. Land rolling.

Soil 3rd rate.

Timber of Pine & Juniper.

Vegetation, bunchgrasses.

No. 1398

Chains.

N. 89° 39' W. on a true line between sections 5th and 32.

Va. 10° 00' East.

Descend.

- 9.70 Cross Wash, 10 lks. wide, Course N. E. and ascend.
- 22.71 Top of Spur, bears N. and S. and descend.
- 36.12 Cross Wash, 7 lks. wide, Course S 60° E, and ascend.
- 40.00 Set a basalt stone 14 x 12 x 6 ins., 9 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
- 1 Yellow Pine 16 ins. diam. bears S 72° W, 156 lks. dist. marked $\frac{1}{4}$ S. B. T.
- 1 Yellow Pine 16 ins. diam. bears N. 50° E, 124 lks. dist. marked $\frac{1}{4}$ S. B. T.
- 70.00 Top of Spur, bears N. and S. and descend.
- 80.00 Set a sand stone 16 x 10 x 7 ins. 11 ins. in the ground for Cor. to Secs. 5, 6, 31st and 32, marked with 1 notch on N and 5 notches on E. edges and raised a mound of stone. alongside. Pits impracticable. from which
- 1 Juniper 8 ins. diam. bears N. 30° E, 91 lks. dist. marked T. 114, R. 21 E, S., 32 B. T.

N. B. T. 10 N. R. 21 E. G. & S. R. M.

Chains.

1 Yellow Pine 6 ins. diam. bears $S. 21^{\circ} E$, 29 lks. dist.
marked T. 10 N., R. 21 E., S., 5 B. T.

No other trees within limits.

Land mountainous

Soil 3rd rate.

Timber of Pine ^{or} Juniper.

Vegetation, bunchgrass.

$N. 89^{\circ} 39' W$ on a true line between sections 6 ^{and} 31.

Va. $12^{\circ} 00'$ East.

Descend.

14.10 Cross Wash, 7 lks. wide, Course $S. 12^{\circ} E$ and ascend.

38.00 Top of Spur, bears $N. \frac{1}{2} S$ 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. from which

1 White Oak 8 ins. diam. bears $N. 1^{\circ} E$, 96 lks. dist.
marked $\frac{1}{4} S. B. T.$

1 Juniper 6 ins. diam. bears $S. 3^{\circ} W$, 60 lks. dist.

N. B. T. 10 N. R. 21 E. G. & S. R. M.

Chains.

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

53.91 Cross Wash, 5 lks. wide, Course S. E. and ascend.

77.65 Top of Spur, bears N. $\frac{1}{2}$ S. and descend.

78.56 The Cor. to Tps. 10 ^{and} 11 N. Rs. 20 & 21 E.

Land mountainous

Soil 3rd rate.

Timber of Pine $\frac{1}{2}$ Spruce.

Vegetation, bunchgrass.

January 27th 1883.

U. B. T. 9 N. R. 21 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 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.

From the Cor. to Tps. 9 & 10 N., Rs. 20 & 21 E., previously set by me.

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

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

I set temporary corners at every half mile, and at 5 miles 79.15 chs. I arrive at a point 156. lks. North of Cor. to Tps,

9th & 10 N., Rs. 21st & 22 E.,

previously set by me. From which corner I run.

N. $89^{\circ}49'W$ on a true line between sections 1st & 36.

Va. $13^{\circ}31'$ East.

Descend.

39.90 Cross Wash, 9 lks. wide, Course $N. 51^{\circ}W$ and ascend.

40.00 Set a sand stone $12 \times 10 \times 4$ ins., 8 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

N. B. T. 9 N. R. 2, E. G. & S. R. M.

chains.

A Yellow Pine 19 ins. diam. bears S. 55° W, 90 lbs. dist.
marked $\frac{1}{2}$ S. B. T.

A Yellow Pine 11 ins. diam. bears N. 53° W, 100 lbs. dist.
marked $\frac{1}{2}$ S. B. T.

57.00 Cross Wash, 7 lks. wide, Course N.

57.30 Cross road from Snowflake to
Forest Dale, Pass N. and S.

80.00 Set a sand stone 19x12x7 ins. 14 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 White Oak 5 ins. diam. bears S. 45° E, 37 lbs. dist.
marked T. 94, R. 21 E, S., 1 B. T.

A Yellow Pine 9 ins. diam. bears S. 23° W, 44 lbs. dist.
marked T. 94, R. 21 E, S., 2 B. T.

A Yellow Pine 10 ins. diam. bears N. 18° E, 80 lbs. dist.
marked T. 104, R. 21 E, S., 36 B. T.

A Yellow Pine 6 ins. diam. bears N. 24° W, 126 lbs. dist.
marked T. 104, R. 21 E, S., 35 B. T.

Land rolling.

Soil 3rd rate,

Heavy timber of Pine & Oak

Undergrowth of oame.

U. S. T. 9 N. R. 21 E. G. & S. R. M.

Chains.

N. 89° 49' W. on a true line between sections 2 and 35.
Va. 13000' East.

Ascend.

40.00

Set a sand stone 18 x 13 x 5 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
impracticable.

from which

A Yellow Pine 7 ins. diam. bears N. 50° E, 31 lks. dist.
marked $\frac{1}{4}$ S. B. T.

A Yellow Pine 7 ins. diam. bears S. 25° W, 63 lks. dist.
marked $\frac{1}{4}$ S. B. T.

42.73 Top of Spur, bears N. 10° E. and descend.

80.00

Set a sand stone 20 x 12 x 10 ins. 15 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

A Yellow Pine 9 ins. diam. bears N. 42° E, 50 lks. dist.
marked T. 10 N. R. 21 E, S., 35 B. T.

A Yellow Pine 10 ins. diam. bears S. 55° E, 88 lks. dist.
marked T. 9 N. R. 21 E, S., 2 B. T.

U. B. T. 9 N. R. 21 E. G. & S. R. M.

Chains.

A Yellow Pine 12 ins. diam. bears $S. 62^{\circ} W.$, 48 lks. dist.
marked T. 9 H., R. 21 E., S., 3 B. T.

A Yellow Pine 16 ins. diam. bears $N. 37^{\circ} W.$, 128 lks. dist.
marked T. 10 H., R. 21 E., S., 34 B. T.

Land mountainous

Soil 3rd rate,

Heavy timber of Pine & Oak,

Undergrowth of cane.

$N. 87^{\circ} 49' W.$ on a true line between sections 3rd & 34.

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

Descend.

7.70 Cross Wash, 10 lks. wide, Course $N.$ and ascend.

40.00 Set a sand stone $15 \times 10 \times 6$ ins., 10
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 Pine 13 ins. diam. bears $N. 10^{\circ} E.$, 57 lks. dist.
marked $\frac{1}{2}$ S. B. T.

A Pine 7 ins. diam. bears $S. 77^{\circ} W.$, 95 lks. dist.
marked $\frac{1}{2}$ S. B. T.

N. B. T. 9 N. R. 21 E. G. & S. R. M.

Chains.

- 53.12 Top of Ridge, bears $N. 10^{\circ} W.$ and descend.
- 77.42 A Yellow Pine 13 ins. diam.
- 80.00 Set a Basalt stone $14 \times 12 \times 8$ ins. 7 ins. in the ground for Cor. to Secs. 3, 4, 33rd 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 12 ins. diam. bears $N. 42^{\circ} W.$ 48 lks. dist. marked T. 104, R. 21 E, S., 33 B. T.
- A Yellow Pine 11 ins. diam. bears $S. 21^{\circ} W.$ 53 lks. dist. marked T. 94, R. 21 E, S., 4 B. T.
- A Juniper 15 ins. diam. bears $S. 44^{\circ} E.$ 157 lks. dist. marked T. 94, R. 21 E, S., 3 B. T.
- A White Oak 7 ins. diam. bears $S. 55^{\circ} E.$ 55 lks. dist. marked T. 94, R. 21 E, S., 3 B. T.
- Land mountainous
- Soil 3rd rate,
- Heavy timber of Pine and Oak.
- Undergrowth of same.

N. B. T. & N. R. 2, E. G. & S. R. M.

Chains.

N. 87° 49' W. on a true line between sections 4 and 33.

Var. 13° 00' East.

Descend.

30.76 Head of Wash, course S. 50° W. and descend.

40.00 a Yellow Pine 10 ins. diam. which I marked 1/2 S. on N. face, for 1/2 Sec. Cor.; from which

A White Oak 6 ins. diam. bears N. 20° W, 58 lks. dist. marked 1/2 S. B. T.

a Yellow Pine 9 ins. diam. bears S. 7° W, 71 lks. dist. marked 1/2 S. B. T.

80.00 Set a Sand stone 20x17x 9 ins. 15 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 rolling.

Soil 3rd rate.

Timber of Pine and Oak.

Vegetation, bunchgrasses.

N. B. T. 9 N. R. 21 E. G. & S. R. M.

chains.

N. 89° 49' W. on a true line between sections 5 ^{and} 32
Va. 13° 00' East.

Descend.

40.00 Set a sand stone 24 x 18 x 7 ins., 18
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 White Oak 9 ins. diam. bears N. 32° W., 25 lks. dist.
marked 1/2 S. B. T.

A Yellow Pine 14 ins. diam. bears S. 30° W., 83 lks. dist.
marked 1/2 S. B. T.

78.90 Cross Wash, 7 lks. wide, Course N 62° W and ascend.

80.00 Set a sand stone 23 x 16 x 7 ins. 19 ins. in
the ground for Cor. to Secs. 5, 6, 31 ^{and} 32, marked
with 1 notch on N and 5 notches on E. edges and
raised a mound of stone. alongside. Pits impracticable.
from which

A Yellow Pine 8 ins. diam. bears N. 17° E., 26 lks. dist.
marked T. 10 N., R. 21 E., S., 32 B. T.

No other trees within limits.
Land hilly

Soil 3rd rate.

Timber of Pine and Oak.

Vegetation, bunchgrass.

U. B. T. 9 N. R. 21 E. G. & S. R. M.

Chains.

N. 89° 49' W, on a true line between sections 6^{and} 31,
Va. 13° 00' East.

Descend.

6.20 Cross Wash, 8 lks. wide, Course S. 70° W, and descend.

18.42 Cross Wash, 9 lks. wide, Course S. 50° E, and ascend.

40.00 Set a Sand stone 24 x 12 x 6 ins., 18
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.

60.17 Top of Spur, bears N. 20° E. and descend.

79.15 The Cor. to Tps. 9^{and} 10 N. Rs. 20 & 21^E

Land rolling.

Soil good rate.

Timber of Pine and Oak.

Vegetation, bunchgrasses.

January 29th 1883.

W. B. T. 9 N. R. 20 E. G. & S. R. M.

Chains.

Before proceeding further with the exteriors of this T^p., I made a change of 6 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.

From the ^{Standard} Cor. to T^{ps}. 9 N. Rs. 19 & 20 E, previously set by me. I run:

North on a true line between sections 31⁴⁰ & 36.

Va. 14° 15' East.

Descend.

40.00 Set a Sand stone 20 x 12 x 10 ins. 10 ins. in the ground, for $\frac{1}{2}$ Sec. Cor., marked $\frac{1}{2}$ on W. face, and raised a mound of stone alongside. Pits impracticable.

from which

A Live Oak 20 ins. diam. bears S. 75° W. 90 lbs. dist. marked $\frac{1}{2}$ S. B. T.

A Live Oak 12 ins. diam. bears N. 60° E. 55 lbs. dist. marked $\frac{1}{2}$ S. B. T.

57.50 Cross Wash, 6 lks. wide, Course 780° E. and ascend

80.00 Set a Sand stone 19 x 8 x 6 ins. 14 ins. in

Chains.

the ground for Cor. to Secs. 25, 30, 31 & 36, marked with / notch on S. and \ notch on N. edges and raised a mound of stone. alongside, Pits impracticable.

from which

A Juniper 6 ins. diam. bears S. 46° W, 03 lks. dist.
marked T. 94, R. 19 E., S., 36 B. T.

A Juniper 8 ins. diam. bears S. 32° E, 40 lks. dist.
marked T. 94, R. 20 E., S., 31 B. T.

A Juniper 5 ins. diam. bears N. 10° E, 47 lks. dist.
marked T. 94, R. 20 E., S., 30 B. T.

No other trees within limits.

Land mountainous

Soil *FX* rate.

Timber of Pine & Juniper.

Vegetation, bunchgrass.

W. B. T. 9 N. R. 20 E. G. & S. R. M.

Chains.

North on a true line between sections 25 and 30.

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

Ascend.

40.00 Set a sand stone $16 \times 8 \times 4$ 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

A Yellow Pine 6 ins. diam. bears $S. 66^{\circ} W.$, 25 lks. dist. marked $\frac{1}{2}$ S. B. T.

A Yellow Pine 12 ins. diam. bears $S. 42^{\circ} E.$, 19 lks. dist. marked $\frac{1}{2}$ S. B. T.

51.18 Head of Wash, course $S. 70^{\circ} E.$ ^{2d} still around.

80.00 Set a sand stone $18 \times 9 \times 6$ ins. 12 ins. in the ground for Cor. to Secs. 19, 24, 25 and 30, marked with 2 notches on S. and 4 notches on W. edges and raised a mound of stone. alongside. Pits impracticable.

from which

A Yellow Pine 12 ins. diam. bears $S. 38^{\circ} E.$, 63 lks. dist. marked T. 94, R. 20 E, S., 30 B. T.

A Yellow Pine 9 ins. diam. bears $S. 28^{\circ} W.$, 87 lks. dist. marked T. 94, R. 19 E, S., 25 B. T.

W. B. T. 9 N. R. 20 E. G. & S. R. M.

Chains.

A Yellow Pine 16 ins. diam. bears $N. 66^{\circ} E$, 55 lks. dist,
marked T. 9th, R. 20th, S., 19 B. T.

A Juniper 6 ins. diam. bears $N. 41^{\circ} W$, 59 lks. dist.
marked T. 9th, R. 19th, S., 24 B. T.

Land mountainous

Soil 3rd rate,

Heavy timber of Pine & Juniper.

Undergrowth of same.

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

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

Ascend.

23.30 Top of Ridge, bears $S. 20^{\circ} W$. and descend.

40.00 Set a sand stone $22 \times 10 \times 8$ ins., 16
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.

65.20 Cross Gulch, 17 lks. wide, Course $S. 37^{\circ} W$, and ascend.

80.00 Set a sand stone $16 \times 8 \times 6$ ins., 11 ins. in
the ground for Cor. to Secs. 13, 18, 19th & 24th, marked
with 3 notches on S. and 3 notches on W. edges and
raised a mound of stone. alongside. Pits impracticable.
from which

W. B. T. 9 N. R. 20 E. G. & S. R. M.

C Chains.

A Yellow Pine 20 ins. diam. bears $S. 45^{\circ} E$, 63 lks. dist.
marked T. 9 N., R. 20 E., S., 19 B. T.

No other trees within limits.

Land mountainous

Soil 3rd rate.

Timber of Pine.

Vegetation *Sambucus*.

North on a true line between sections 13^{and} 15.

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

Ascend.

38.00 Top of Ridge, bears $N. 50^{\circ} W$ and descend.

40.00 Set a *Saur* stone 18 x 10 x 9 ins., 12
ins. in the ground, for $\frac{1}{4}$ Sec. Cor., marked $\frac{1}{4}$ on W .
face, and raised a mound of stone. alongside. Pits
impracticable.

from which

A Yellow Pine 8 ins. diam. bears $S. 87^{\circ} W$, 36 lks. dist.
marked $\frac{1}{4}$ S. B. T.

A Yellow Pine 10 ins. diam. bears $N. 51^{\circ} E$, 17 lks. dist.
marked $\frac{1}{4}$ S. B. T.

W. B. T. 9 N. R. 20 E. G. & S. R. M.

Chains,

57.00 Cross low Sag and ascend.

70.00 Top of Spur, bears $N. 30^{\circ} E.$ and descend.

80.00 Set a sand stone $16 \times 8 \times 6$ ins. 11 ins. in
the ground for Cor. to Secs. 7, 12, 13 and 14, marked
with 4 notches on S. and 2 notches on ~~N.~~ edges and
raised a mound of stone. alongside. Pits impracticable.
from which

A Yellow Pine 14 ins. diam. bears $N. 56^{\circ} W.$, 63 lks. dist.
marked T. 94, R. 19 E, S., 12 B. T.

A Yellow Pine 10 ins. diam. bears $N. 20^{\circ} E.$, 34 lks. dist.
marked T. 94, R. 20 E, S., 7 B. T.

A Yellow Pine 8 ins. diam. bears $S. 65^{\circ} W.$, 39 lks. dist.
marked T. 94, R. 19 E, S., 13 B. T.

A Burr Oak, 6 ins. diam. bears $S. 4^{\circ} E.$, 15 lks. dist.
marked T. 94, R. 20 E, S., 18 B. T.

Land mountainous

Soil 3rd rate.

Heavy timber of Pine and Oak,

Undergrowth of same.

W. B. T. 9 N. R. 20 E. G. & S. R. M.

Chains.

North on a true line between sections 7 and 12.

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

Descend.

19.50 Cross Wash, 18 lks. wide, Course N.E. and ascend.

30.00 Top of Spur, bears N.E. and descend.

40.00 Set a sand stone $18 \times 10 \times 8$ ins., 12 ins. in the ground, for $\frac{1}{4}$ Sec. Cor., marked $\frac{1}{4}$ on W. face, and raised a mound of stone. alongside. Pits impracticable. from whichA Yellow Pine 20 ins. diam. bears N. $57^{\circ}W$, 56 lks. dist. marked $\frac{1}{4}$ S. B. T.A Yellow Pine 6 ins. diam. bears N. $45^{\circ}E$, 51 lks. dist. marked $\frac{1}{4}$ S. B. T.63.20 Cross Wash, 18 lks. wide, Course N. $20^{\circ}E$ and ascend.80.00 Set a sand stone $16 \times 12 \times 6$ ins., 11 ins. in the ground for Cor. to Secs. 1, 6, 7 and 12, marked with 5 notch on S. and 1 notch on W. edges and raised a mound of stone. alongside. Pits impracticable. from whichA Yellow Pine 20 ins. diam. bears N. $32^{\circ}W$, 57 lks. dist. marked T. 94, R. 17 E, S., 1 B. T.A Burr Oak, 8 ins. diam. bears S. $48^{\circ}W$, 57 lks. dist.

W. B. T. 9 N. R. 20 E. G. & S. R. M.

Chains.

marked T. 94, R. 19 E, S., 12 B. T.

A Burr Oak, 8 ins. diam. bears $N. 64^{\circ} E$, 56 lks. dist.

marked T. 94, R. 20 E, S., 6 B. T.

A Burr Oak, 12 ins. diam. bears $S. 33^{\circ} E$, 86 lks. dist.

marked T. 94, R. 20 E, S., 7 B. T.

Land mountainous

Soil 3rd rate,

Heavy timber of Pine & Oak.

Undergrowth of same.

North on a true line between sections 1 and 6.

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

Ascend.

- 2.00 Top of Spur, bears $N. 20^{\circ} E$. and descend.
- 7.63 Cross Wash, 16 lks. wide, Course $N. 70^{\circ} E$, and ascend.
- 15.70 Top of Spur, bears $E. \frac{1}{2} W.$ and descend.
- 25.40 Cross Creek, 20 lks. wide, Course $S. 80^{\circ} E$, and ascend.
- 38.00 Top of Spur, bears $S. E$, and descend.
- 40.00 Set a sand stone $16 \times 8 \times 4$ 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

Chains.

1 Yellow Pine 20 ins. diam. bears $N. 86^{\circ} W$, 56 lks. dist.
marked $\frac{1}{2}$ S. B. T.

1 Yellow Pine 12 ins. diam. bears $N. 12^{\circ} E$, 98 lks. dist.
marked $\frac{1}{2}$ S. B. T.

53.47 Cross Wash, 20 lks. wide, Course $N. E.$ and ascend.

80.00 Set a sand stone $1 \frac{1}{2} \times 12 \times 12$ ins. in the
ground, for Cor. to Tps. 9 and 10 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

1 Yellow Pine 24 ins. diam. bears $S. 42^{\circ} E$, 68 lks. dist.
marked T. 9 N., R. 20 E., S., 6 B. T.

1 Yellow Pine 14 ins. diam. bears $N. 23^{\circ} E$, 49 lks. dist.
marked T. 10 N., R. 20 E., S., 31 B. T.

1 Burr Oak, 8 ins. diam. bears $S. 88^{\circ} W$, 86 lks. dist.
marked T. 9 N., R. 19 E., S., 1 B. T.

No other trees within limits.

Land mountainous

Soil 3rd rate,

Heavy timber of Pine and Oak.

Undergrowth of same.

January 30th 1883.

N. B. T. 9 N. R. 20 E. G. & S. R. M.

Chains.

Before proceeding further with the exterior of this Tps. I made a change of 6 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.

From the Cor. to Tps. 9 & 10 N., Rs. 19 & 20, previously set by me,

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

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

I set temporary corners at every half mile, and at 6 miles ^{lks} I arrive at a point 230 lks. North of Cor. to Tps,

9th & 10th N., R. 20th & 21st E.,

previously set by me. From which corner I run.

N. $89^{\circ} 44'$ W. on a true line between sections 1st & 36.

Va. $18^{\circ} 00'$ East.

Descend.

16.90 Cross Wash, 15 lks. wide, Course S. 48° W. and ascend.

83.00 Top of Spur, bears S. 45° W. and descend.

40.00 Set a sand stone $8 \times 10 \times 3$ 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 impracticable.

N. B. T. 9 N. R. 20 E. G. & S. R. M.

Chains,

from which

A Burr Oak, 5 ins. diam. bears N. 78° E., 67 lks. dist.
marked $\frac{1}{2}$ S. B. T.

A Burr Oak 4 ins. diam. bears S. 5° E., 60 lks. dist.
marked $\frac{1}{2}$ S. B. T.

57.60 Cross Wash, 20 lks. wide, Course S. 72° W. and ascend.

64.00 Top of Spur, bears N. ²⁰ W. and descend.

67.35 Cross Wash, 18 lks. wide, Course S. and ascend.

75.50 Top of Spur, bears S. 23° W. and descend.

80.00 Set a sand stone 8 x 10 x 4 ins. 12 ins. in
the ground for Cor. to Secs. 1, 2, 35 ^W 36 marked
with 5 notch ^W on W and 1 notch on E. edges and
raised a mound of stone. alongside. Pits impracticable.
from which

A Yellow Pine 10 ins. diam. bears N. 27° E., 71 lks. dist.
marked T. 104, R. 20 E, S., 36 B. T.

A Yellow Pine 20 ins. diam. bears N. 65° W., 54 lks. dist.
marked T. 104, R. 20 E, S., 35 B. T.

A Yellow Pine 8 ins. diam. bears S. 24° E., 47 lks. dist.
marked T. 94, R. 20 E, S., 1 B. T.

A Burr Oak 5 ins. diam. bears S. 22° W., 72 lks. dist.

N. B. T. 9 N. R. 20 E. G. & S. R. M.

Chains.

marked T. 9th, R. 20^E, S., 2 B. T.

Land mountainous

Soil poor rate,

Heavy timber of Pine and Oak,

Undergrowth of same.

N. 89° 44' W. on a true line between sections 2nd and 3rd.

Va. 13° 18' East.

Descend.

10.95 Cross Wash, 21 lks. wide, Course S, and ascend.

26.00 Top of Spur, bears S. 18° W. and descend.

40.00 Set a sand stone 18 x 10 x 3 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

A Juniper 10 ins. diam. bears N. 24° E, 30 lks. dist. marked $\frac{1}{2}$ S. B. T.

A Burr Oak 6 ins. diam. bears S. 13° E, 14 lks. dist. marked $\frac{1}{2}$ S. B. T.

56.30 Cross Wash, 18 lks. wide, Course S 66° E and ascend.

80.00 Set a sand stone 22 x 16 x 4 ins. 16 ins. in the ground for Cor. to Secs. 2, 3, 34th and 35th marked with 4 notches on S^W and 2 notches on E. edges and raised a mound of stone. alongside. Pits impracticable.

N. B. T. 9 N. R. 20 E. G. & S. R. M.

Chains.

from which

A Yellow Pine 10 ins. diam. bears $N. 58^{\circ} E$, 40 lks. dist.
marked T. 104, R. 20 E, S., 35 B. T.

A Yellow Pine 8 ins. diam. bears $N. 41^{\circ} W$, 59 lks. dist.
marked T. 104, R. 20 E, S., 34 B. T.

A Juniper 6 ins. diam. bears $S. 70^{\circ} E$, 24 lks. dist.
marked T. 94, R. 20 E, S., 2 B. T.

No other trees within limits.

Land mountainous

Soil 3rd rate,

Heavy timber of Pine & Juniper.

Undergrowth of same.

U. S. T. 9 N. R. 20 E. G. & S. R. M.

Chains.

N. 89° 44' W. on a true line between sections 33 and 34.

Va. 13' 32' East.

Ascend.

18.11 Top of Spur, bears S. 18° E. and descend.

40.00 Set a Sand stone 18 x 10 x 4 ins., 12 ins. in the ground, for 1/4 Sec. Cor., marked 1/4 on N. face, and raised a mound of stone. alongside. Pits impracticable. from which

A Yellow Pine 8 ins. diam. bears N. 66° E, 16 lks. dist. marked 1/4 S. B. T.

A Yellow Pine 6 ins. diam. bears S. 57° W, 39 lks. dist. marked 1/4 S. B. T.

55.40 Cross Wash, 20 lks. wide, Course S. 43° W.

62.70 Cross Wash, 30 lks. wide, Course S. 18° E. and ascend.

77.00 Top of Spur, bears N. 22° E. and descend.

80.00 Set a Sand stone 18 x 8 x 3 ins. 12 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 Burr Oak, 12 ins. diam. bears N. 64° W, 46 lks. dist. marked T. 10 W, R. 20 E, S., 33 B. T.

U. B. T. 9 N. R. 20 E. G. & S. R. M.

Chains,

A Burr Oak 14 ins. diam. bears $S. 13^{\circ} E.$, 23 lks. dist.
marked T. 94, R. 20 E, S., 3 B. T.

A Burr Oak 10 ins. diam. bears $S. 74^{\circ} W.$, 69 lks. dist.
marked T. 94, R. 20 E, S., 4 B. T.

No other trees within limits.

Land mountainous

Soil 3rd rate,

Heavy timber of Pine & Burr Oak.

Undergrowth of Sassa.

N. 89° 44' W. on a true line between sections 4 and 33.

Va. 13° 30' East.

Descend.

.75 Cross Wash, 11 lks. wide, Course N. E. and ascend.

No. 00 Set a sand stone 16 x 8 x 6 ins., 11
ins. in the ground, for $\frac{1}{4}$ Sec. Cor., marked $\frac{1}{4}$ on N.
face, and raised a mound of stone. alongside. Pits
impracticable. from which

A Yellow Pine 16 ins. diam. bears N. 5° W., 53 lks. dist.
marked $\frac{1}{4}$ S. B. T.

A Burr Oak 10 ins. diam. bears $S. 58^{\circ} E.$, 43 lks. dist.
marked $\frac{1}{4}$ S. B. T.

U. B. T. 9 N. R. 20 E. G. & S. R. M.

Chains.

46.00 Top of Spur, bears $S. 30^{\circ} E.$ and descend.

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

80.00 Set a sand stone $14 \times 10 \times 8$ ins. 7 ins. in the ground for Cor. to Secs. 4, 5, 32nd 83, 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 22 ins. diam. bears N. W. 47 lks. dist. marked T. 104, R. 20 E, S., 82 B. T.

A Yellow Pine 10 ins. diam. bears $S. 68^{\circ} W.$ 45 lks. dist. marked T. 94, R. 20 E, S., 5 B. T.

An Oak 8 ins. diam. bears $S. 82^{\circ} E.$ 56 lks. dist. marked T. 94, R. 20 E, S., 4 B. T.

No other trees within limits.

Land mountainous

Soil 3rd rate,

Heavy timber of Pine and Oak,

Undergrowth of same.

Chains.

N. 89° 44' W. on a true line between sections 5th and 32.

Va. 130° 30' East.

Ascend.

56.00 Top of Spur, bears S. 30° E and descend.

40.00 Set a sand stone 20 x 16 x 8 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

An Oak 10 ins. diam. bears S. 64° E, 54 lbs. dist. marked $\frac{1}{2}$ S. B. T.

A Walnut 6 ins. diam. bears N. 45° W, 54 lbs. dist. marked $\frac{1}{2}$ S. B. T.

56.23 Cross Wash, 20 lbs. wide, Course S. 37° E and ascend.

67.00 Top of Spur, bears S. E. and descend.

80.00 An Oak 8 ins. diam.

which I marked T. 10 N. S. 32 on N. E. R. 20 E. S. 5 on S. E. S. ^{6.94} 6 on S. W. and S. 31 on N. W. faces, with 1 notch on N and 5 notch 60 on E. edges, for

Cor. to Secs. 5, 6, 31 and 32, from which

An Oak 8 ins. diam. bears N. 50° W, 77 lbs. dist. marked T. 104, R. 20 E, S., 31 B. T.

N. B. T. 9 N. R. 20 E. G. & S. R. M.

Chains.

An Oak 6 ins. diam. bears $N. 75^{\circ} E.$, 57 lks. dist.
marked T. 104, R. 20 E, S., 32 B. T.

An Oak 8 ins. diam. bears $S. 28^{\circ} E.$, 53 lks. dist.
marked T. 94, R. 20 E, S., 5 B. T.

No other trees within limits.

Land mountainous

Soil 3rd rate,

Heavy timber of *Pine* and *Oak*,

Undergrowth of *Same*.

$N. 89^{\circ} 44' W$ on a true line between sections 6 and 31.

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

Descend.

11.00 Cross Wash, 16 lks. wide, Course $S. E.$ and ascend.

22.22 Top of Spur, bears $S. 30^{\circ} E.$ and descend.

37.19 Cross Wash, 18 lks. wide, Course $S. 10^{\circ} E.$ and ascend.

40.00 Set a sand stone $16 \times 9 \times 6$ 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

An Oak 8 ins. diam. bears $N. 58^{\circ} W.$, 37 lks. dist.

U. S. T. 9 N. R. 20 E. G. & S. R. M.

Chains.

marked $\frac{1}{2}$ S. B. T.An Oak 10 ins. diam. bears $\phi. 60^{\circ} E$, 9 lks. dist.marked $\frac{1}{2}$ S. B. T.56.12 Top of Spur, bears $\phi.$ and descend.69.20 Cross Wash, 30 lks. wide, Course $S 20^{\circ} W$ and ascend.

80.70 The Cor. to Tps. 9 and 10 N. Rs. 19 & 20 E.

Land mountainous

Soil 3rd rate,

Heavy timber of Pine and Oak.

Undergrowth of same.

January 31st 1883.

Chain

W. 13 T. 16 N. R. 30 E. G. & S. R. M.

From the Cor. to Tps. 15th & 16th N. Rs. 29 & 30 E,
 which is a basalt stone, set firmly in the
 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 grass over, along side,
 1 run,

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

Va. $14^{\circ} 13'$ East.

Over level land

- 21.00 A House, bears N. 88° E, 4.18 chs. dist
- 25.51 Cross Wash, 4 lks. wide, Course S. 60° W.
- 40.00 Set a lava stone $14 \times 10 \times 7$ ins., 9
 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.
- 57.00 Leave Valley, bears E. $\frac{3}{4}$ W. and ascend.
- 80.00 Set a lava stone $18 \times 12 \times 7$ ins. 12 ins. in
 the ground for Cor. to Secs. 25, 30, 31st & 36, marked
 with 1 notch on S. and 5 notches on W. edges and
 raised a mound of stone alongside. Pits impracticable.
 Corner set on

W. B. T. 16 N. R. 30 E. G. & S. R. M.

Chains.

Top of Mesa, bears E. and W.

Land level. nd rolling.

Soil 2nd rate

Vegetation, bunchgrass.

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

Va. 14° 13' East.

Descend.

13.00 Enter Valley, bears, E. and W.

40.00 Set a lava stone 14 x 12 x 6 ins., 9 ins. in the ground, for 1/4 Sec. Cor., marked 1/4 on W. face, and raised a mound of stone. alongside. Pits impracticable.

64.27 Cross Wash, 10 lks. wide, Course S. W.

80.00 Set a sand stone 14 x 12 x 5 ins. 9 ins. in the ground for Cor. to Secs. 19, 24, 25th E. 30, marked with 2 notches on S. and 4 notches on W. wedges, 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 2nd rate

Vegetation, bunchgrass

W. B. T. 16 N. R. 30 E. G. & S. R. M.

Chains.

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

Va. 14° 13' East.

Descend.

- .50 Cross Wash, 11 lks. wide, Course W
- 18.90 Cross Lani River, 20 lks. wide, Course S. W
- 19.00 A windmill, bears E., 84 lks. dist.
- 20.00 A House, bears N. 51° W, 500 lks. dist.
A House, bears N. 48 1/4° W, 4.29 chs. dist.
- 25.00 Comes Waigate road, bears N. 50° E. & S. 50° W.
- 26.00 A corral, bears W, 68 lks. dist.
A stable, bears W, 246 lks. dist.
- 40.00 Set a Sand stone 14 x 10 x 7 ins., 9 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.
- 80.00 Set a Sand stone 14 x 12 x 9 ins., 9 ins. in the ground for Cor. to Secs. 13, 18, 19 & 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. and level.
- Soil 2nd rate
- Vegetation, bunchgrass.

W. B. T. 16 N. R. 30 E. G. & S. R. M.

Chains.

North on a true line between sections 1st $\frac{1}{2}$ 18th.Va. $14^{\circ} 13'$ East.

Ascend.

20.00 Leave Valley, bears E. $\frac{1}{2}$ W. and ascend.

40.00 Set a sand stone $18 \times 10 \times 10$ ins., 9 ins. in the ground, for $\frac{1}{2}$ Sec. Cor., marked $\frac{1}{2}$ 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.

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

80.00 Set a sand stone $14 \times 12 \times 9$ ins. 9 ins. in the ground for Cor. to Secs. 7, 12, 13 $\frac{1}{2}$ 18th, 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 level. and mountainous.

Soil 3rd rate

Vegetation, bunchgrass.

W. B. T. 16 N. R. 30 E. G. & S. R. M.

Chains.

North on a true line between sections 7th and 12th.
Va. 14° 13' East.

Descend.

5.42 Cross Wash, 7 lks. wide, Course W and ascend.
32.00 Top of Spur, bears N. 80° E. and descend.
40.00 Set a lava stone 12 x 9 x 8 ins. 8

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.

79.96 Intersect the 4th Standard Parallel North, at a
point 2.72 chs. East of the Standard Cor. to
Tps. 17 N., R. 29th & 30th E., which is a post,
with marked stone, set firmly in the ground,
marked S. E. T. 17 N. on N.;
R. 30 E., S. 31 on E. and R. 29 E., S. 36 on W.
faces, with 6 notches on N. E. and W. faces;
with pits on each line, N. E. & W.
of post, 6 ft. dist., and a mound of earth
in good order, around 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.
16 N., R's 29. and 30 E., marked C. C. T.

W. B. T. 16 N. R. 30 E. G. & S. R. M.

Chains.

16 U. on S. R. 30 E S. 6 on E. and R.
 276. S. 1 on W. faces with 6 notches on
 S, E & W. faces, and raised a mound of stone $2\frac{1}{2}$ ft.
 high, 5 ft. base, around post, Pits impracticable.

Land rolling.

Soil 2nd. ~~red~~

Vegetation, bunchgrass ^{and} ~~and~~ ~~vegetation~~.

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

April 2nd 1880.

E. B. T. 16 N. R. 30 E. G. & S. R. M.

Chains.

From the Cor. to Tps. 15 & 16 N. Rs. 30 & 31 E,
 which is a post, in good condition, set
 firmly in the ground, marked J. 16 N., S. 31 W. E.;
 R. 31 E., S. 6 W. S. E.; J. 15 N., S. 1 W. S. W. E.
 R. 29 E., S. 36 W. N. W. faces, with 6 notches on
 each edge, with pits lengthwise on each line,
 N., S., E. & W. of post, 6 ft. dist, and a mound
 of earth, in good order, around post,
 I run,

North, on a true line between sections 31 and 36.

Va. 13058' East.

Ascend.

14.50 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 $\frac{1}{2}$ 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, 12 Yds. wide, Course N. 80° E. and ascend.

80.00 Set a sand stone 12 x 10 x 9 ins. 8 ins. in
 the ground for Cor. to Secs. 29, 30, 31 & 36, marked
 with 1 notch on S. and 5 notches on N. edges, dug pits

94

E. B. T. 16 N. R. 30 E. G. & S. R. M.

Chains.

18 x 18 x 12 ins. in each Sec., 5½ ft. dist., and raised a mound of earth 2 ft. high 4½ ft. base. alongside.

Land mountainous.

Soil 3^m rate

Vegetation, bunch grass.

North on a true line between sections 25 and 30.

Va. 14° 19' East.

Ascend.

- 12.00 Top of Spur, bears S. 60° E. and descend.
- 40.00 Set a lava stone 14 x 10 x 9 ins., 9 ins. in the ground, for ¼ Sec. Cor., marked ¼ on W. face, dug pits, 18 x 18 x 12 ins., N. and S. of stone 5½ ft. dist., and raised a mound of earth 1½ ft. high, 3½ ft. base. alongside.
- 56.00 Cross Gulch, 5 lks. wide, Course 7/ 30° W. and ascend.
- 62.00 Top of Spur, bears E. and descend.
- 80.00 Set a lava stone 20 x 12 x 4 ins. 15 ins. in the ground for Cor. to Secs. 19, 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., 5½ ft. dist., and raised a mound of earth 2 ft. high 4½ ft. base. alongside.

E. B. T. 16 N. R. 30 E. G. & S. R. M.

Chains.

Land mountainous.

Soil 2nd rate

Vegetation, bunchgrass.

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

Va. 14° 19' East.

Descend.

40.00 Set a sand stone 18 x 16 x 3 ins. & 2 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.

78.80 Cross Wash, 10 lks. wide, Course N 50° W and ascend.

80.00 Set a sand stone 18 x 16 x 4 ins. 12 ins. in the ground for Cor. to Secs. 13, 18, 19th & 24th, marked with 3 notches on S. and 3 notches on W. edges and raised a mound of stone. alongside. Pits impracticable. Land mountainous.

Soil 2nd rate

Vegetation, bunchgrass and sagebrush.

E. B. T. 16 N. R. 30 E. G. & S. R. M.

Chains.

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

Va. 14019' East.

Ascend.

- 6.00 Top of Spur, bears N. E. and descend.
- 10.00 Cross Wash, 8 lks. wide, Course S. 30th and ascend.
- 30.00 Top of Ridge, bears N. 80° E. and descend.
- 40.00 Set a Sand stone 12 x 10 x 5 ins., 8 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.
- 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, 18 & 18, marked T. 16 N. S. 7, on N. E., R. 31 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., $5\frac{1}{2}$ ft. dist., and raised a mound of earth 2 ft. high, $4\frac{1}{2}$ ft. base around post.
- Land mountainous.
- Soil Quartz rocks
- Vegetation, *beneignus* *oagarmoh*.

C. B. T. 16 N. R. 30 E. G. & S. R. M.

Chains.

North on a true line between sections 7^{and} 12
 Va. 14° 19' East.

Descend.

40.00 Set a sand stone 14 x 12 x 6 ins., 9 ins. in the ground, for 1/4 Sec. Cor., marked 1/4 on W. face, and raised a mound of stone. alongside. Pits impracticable.

79.21 Intersect the 4th Standard Parallel North at a point 1.97 chs. East of the Standard Cor. to Tps. 17 N., R. 30 W. & E., which is a sandstone, set firmly in the ground with 6 notches on N., E. and W. faces, and with a stone mound, in good order alongside, and

Set a sandstone 18 x 11 x 6 ins., 12 ins. in the ground for Closing Cor. to Tps. 16 N., R's 30 and 31 E., marked C. C., with 6 notches on S, E. & W. edges, dug pits 24 x 18 x 12 ins. crosswise on each line, S, E. rd. of stone 6 ft. dist. and raised a mound of earth, 2 1/2 ft. high, 5 ft. base. alongside.

Land rolling.

Soil 2nd rate

Vegetation bunch grass.
 I can fully explain the adjustments of my solar compass today & from them correct. April 8th 1883

78 retracing boundary line, N. W. Arizona to New Mexico,
BOOK 1398 along
E. boundary S. 17 N., R. 31 E., T. 2 S. R. 11 W.

Chains

From the 151st Mile Post, on boundary
line, between New Mexico and Arizona,
previously described, I run
North along boundary line, on standard.
Wa. $14^{\circ} 15'$ East.

Ascend.

33.40 To clearing cor. to Tps. 16th & 17th,
R. 31 E., on 4th Standard line, North,
previously set by me.

33.90 Foot of Mesa, bear E. 90° W. and ascend.

69.90 Top of Mesa, bear N. 80° W. 90° W. 80° E.
and descend.

79.90 To a point 70 lks. East of the 150th
Mile Post, which is a lava stone, set
firmly in the ground, marked -150
on N.; 4. 4. on E.; 82° W. S. on S. 90° long.
on W. sides, with a stone mound, in good
order, alongside.

The return course is then for S. 30° E.

Land rolling. Soil 2nd rate.

Vegetation, bunchgrass.

E. boundary T. 17 N., R. 31 E., S. 4 & S. R. M.

BOOK 1398

Chains.

From the 150th Mile Post, I run
North, along boundary line, or random,
Val. $14^{\circ} 15' E.$

Ascend.

45.50 Bank of Meas, bears $N. 80^{\circ} W.$, and descend.

72.90 Cross Wash, 6 lks. wide, course $N. 5^{\circ} E.$
and ascend gradually.

80.23 To a point 20 lks. East of the 149th
Mile Post, which is a lava stone, set
firmly in the ground, marked
149 on N., N. M. on E., $32^{\circ} W. S.$ on
S. and Ariz. on W. sides, with a
stone mound, in good order, along side.
The return course is therefore $S. 9^{\circ} E.$

Land rolling.

Soil 3rd rate.

Vegetation, bunchgrass.

100 Retracing boundary line, bet. Arizona & New Mexico,
along

E. boundary T. 17 N., R. 31 E., G. & S. R. M.

BOOK 1398

Chain

From the 149th Mile Post, I continue
North on boundary line, on random line,
to 142nd 15th East.

Ascend gradually.

34.27 Enter Juni Valley, bear E. & W.

80.18 To a point 31 kts. East of the 148th
Mile Post, which is a post, in
good condition, set firmly in the
ground, marked 148 on N., N. W. on
E., 32° W. S. on S. ^{and} Ariz. on W.
sides, with pits and an earth
mound, in good order around post.

The return course is then for S. 10° E.
Land rolling.

Soil 2nd rate

Vegetation, bunchgrass

Retracing boundary line bet. Arizona ^{and} New Mexico, 101
along

E. boundary T. 17 N., R. 31 E., S. 2 W. S. R. M.

BOOK 1398

Chavis

From the 148th Mile Post, I continue
North along boundary line, or random line
Var. $14^{\circ}15'$ East.

Along Juno Valley.

Found no trace of the 147th Mile
Post, and continue North.

80.11 Cross Juno River, 20 lks. wide,
cross S. 50° W. and ascend.

112.09 Leave Juno Valley, bear N.E. & S.W.
and continue ascent.

159.96 To a point 40 lks. East of the 146th
Mile Post, which is a post, in good
order set firmly in the ground, marked
146 on N.; N. M. on E.; 33° W. S. on
S. ² W. Ariz. on W. sides, with pits and
an earth mound in good order
around post.

The return course is then for S. 9° E.

Land rolling ^{and} level.

Soil 2nd site.

Vegetation, bunch grass.

102 Retracing boundary bet New Mexico and Arizona,
along

E. boundary T. 17 N., R. 31 E., G. and S. R. M.

BOOK 1398

Chains

From the 146th Mile Post, I run
S. 9° E. on a true line, along boundary,
Crs. 14° 15' East.

79.98 Set a post, 4 ft. long, 4 ins. square,
with marked stone, 12 ins. in the ground,
for 147th Mile Post, marked
147 on U.; N. M. on E.; 32° W. L. on
S. and Ariz. on W. sides; dug pits
18 x 18 x 12 ins. U., S., E. and W. of post,
5 1/2 ft. dia., and raised a mound
of earth, 2 ft. high, 4 1/2 ft. base,
around post.

159.96 To the 148th Mile Post.

Land rolling.

Soil 2nd rate.

Vegetation, bunchgrass.

Retracing boundary bet. New Mexico & Arizona, 103

E. boundary ^{along} T. 17 N., R. 31 E., S. 1 & S. R. M.

BOOK 1398

Schamis

From the 146th Mile Post, I run
North on a random line, along boundary.
Var. $14^{\circ} 15'$ East.

Ascend.

- 13.75 Cross Indian trail, trans E. & W.
14.00 Top of spur, trans N. & descend.
51.73 Cross Wingate road, trans $N. 35^{\circ} E.$
60.48 Cross Gulch, 10 lks. wide, course E.
and ascend.

80.05 To a point 68 lks. E. of 145th
Mile Post, which is a post, set
firmly in the ground, marked
145 on N.; N. M. on E.;
 $32^{\circ} W. d.$ on S. & Arizona W. sides,
with pits and a mound of earth
in good order around post.

The return course is therefore $S. 29^{\circ} E.$

Land mountainous.

Soil 2nd rate.

Vegetation, bunchgrass.

104 Retracing boundary bet. New Mexico and Arizona,
along

E. boundary T. 17 N., R. 31 E., S. 2nd S. R. M.

BOOK 1398

Chamiso.

From the 145th Mile Post I continue
North in a random line, along boundary.

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

Ascend gradually.

32.80

Belonging to
Co. C. R. 31 E. fractional Tps. 17th & 18th N.,
R. 31 E. which is a post, set firmly in

the ground, marked

C. C. R. 31 E. or W.

T. 18 N., S. 34 or U.

T. 17 N., S. 3 on S. face, with 6 notches
on N., S. and W. faces; with pits

N., S. and W. of post, 6 ft. dist, and
a mound of earth, in good order,
around post.

Land rolling

Soil 3rd rate.

Vegetation bunchgrasses.

I carefully examined the
adjustments of my solar compass today,
particularly the latitude and meridian
apparatus, and found it correct. April 4th 1853.

For final notes
see Book No. 19

U. S. Surveyor General's Office,

Tucson, Arizona, June 17, 1884

The foregoing Field Notes of the Survey of the a

portion of the
 Exterior Lines of
 Townships 9, 10, 16 & 17 North
 Ranges 20, 21, 22, 23, 30 & 31 East

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

O. H. Wheeler

Deputy Surveyor, under his contract of the

17th

day of

July

, 1884, having been

critically examined and the necessary corrections and explanations made, the said Field Notes and the surveys they describe

are hereby approved

Royce Johnson
 Surveyor General.