

See Index

FIELD-NOTES

OF a portion of No. 1397

The *Eastern* Lines of
Township *11 N., R. 23 E.; T. 10 N., R. 19 E.; T. 11 N., R. 20 E.*
Range *24 North*
East

1st Meridian, *1st*

BY

BOOK 1397

A. E. Thomas, Deputy Surveyor,

under his contract of August 5th 1882

Survey commenced July 25th 188

Survey completed October 11th 1883

Platted by

No. 1397 188

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188

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Compared 1397

Platted

188



99					99						
97	J.	24	21.	72	93				10	12	12
76	R.	7	E.	14	92	18	17	^T _R M	15	1497	
74				23	91	19	20		22	23	24
73				26	90	30	30	28	27	26	25
71				28	89	32	32	31	30	29	28
80	82	84	85	86	88						

					69						
				77	73				10	11	12
18	17	^T _R M	15	14	78	18	17		15	14	12
19	20		22	22	65	19	20	21	22	1397	
30	29		27	26	63	30	29	28	27	26	25
52	54	55	57	58	60	31	32	33	34	35	36

											10
											12
70	77	^T _R M	75	74	13	70	70	71	72	73	13
79	80		82	82	18	79	80	81	82	83	18
80	80		87	86	25	80	80	81	82	83	25
81	82		84	84	17	81	82	83	84	85	17
					19						19

Index

BOOK 1397 No. 1397

Page

5th Auxiliary Guide Meridian
 along East Bdy - T. 11 N; R. 20 E. ✓

S - Bdy	T. 11 N;	R. 23 E.	✓	1
E - "	" 10 N;	R. 19 E.	✓	9
S - "	" 11 N;	R. 20 E.	✓	20
E - W - "	✓ " 8 N;	R. 27 "	✓	27
E - S - "	✓ " 20 N;	R. 9 "	✓	36
E, S + W - "	✓ " 24 N;	R. 7 "	✓	41
East & Bdy	" 11 N.	R 20 E		30
West "	" 8 N	R 27 E		38
East "	" 8 N	" 27 E		45
South "	" 20 N	" 9 E		52
East "	" 20 N	" 9 E		62
West "	" 24 N	" 7 E		71
South "	" 24 N	" 7 E		80
East "	" 24 N	" 7 E		90

E. Bdy is a
Resurvey

6	5	4	3	2	1	6	5	4	3	2	1
7	8	9	10	11	12	7	8	9	10	11	12
13	14	15	16	17	18	13	14	15	16	17	18
19	20	21	22	23	24	19	20	21	22	23	24
25	26	27	28	29	30	25	26	27	28	29	30
31	32	33	34	35	36	31	32	33	34	35	36

16
 17
 18
 19
 20
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 22
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 24
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 26
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6	5	4	3	2	1	6	5	4	3	2	1
7	8	9	10	11	12	7	8	9	10	11	12
13	14	15	16	17	18	13	14	15	16	17	18
19	20	21	22	23	24	19	20	21	22	23	24
25	26	27	28	29	30	25	26	27	28	29	30
31	32	33	34	35	36	31	32	33	34	35	36

BOOK 1397

BOOK 1897

6	5	4	3	2	1	6	5	4	3	2	1
7	8	9	10	11	12	7	8	9	10	11	12
13	14	15	16	17	18	13	14	15	16	17	18
19	20	21	22	23	24	19	20	21	22	23	24
25	26	27	28	29	30	25	26	27	28	29	30
31	32	33	34	35	36	31	32	33	34	35	36

BOOK 1907

6	5	4	3	2	1	6	5	4	3	2	1
7	8	9	10	11	12	7	8	9	10	11	12
13	14	15	16	17	18	13	14	15	16	17	18
19	20	21	22	23	24	19	20	21	22	23	24
25	26	27	28	29	30	25	26	27	28	29	30
31	32	33	34	35	36	31	32	33	34	35	36

43
 44
 45
 46
 47
 48
 49
 50
 51

For preliminary oaths & description of instrument see book No. 1.

Chains.

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

Before proceeding further with the exterior of this Tp.,
I made a change of 27 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 fur-
ther tested instrument by reversing.

I took the latitude and found it to be $34^{\circ} 16' N$.
From the Cor. to Tps. 10 ^{and} 11 N. Rs. 22 & 23 E.,
which is a basalt stone, set
firmly in the ground, marked
with 6 notches on each edge,
with a mound of stone
in good order along side,

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

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

I set temporary corners at every half mile, and at 6 miles
2.76 chs. I arrive at a point 80 lks. South 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, with a stone mound, in good order alongside,

From which corner I run,

S. 89° 54' W. on a true line between sections 1 and 36.

Va. 13° 00' East.

Ascend.

34.20 Top of Butte and descend.

40.00 Set a basalt stone 16 x 10 x 4 ins., 11 ins. in the ground, for 1/4 Sec. Cor., marked 1/4 on N. face, dug pits, 18 x 18 x 12 ins., E. and W. of stone 5 1/4 ft. dist., and raised a mound of earth 1 1/2 ft. high, 3 1/2 ft. base. alongside. from which

A Pine 6 ins. diam. bears N. 27° W., 58 lbs. dist. marked 1/4 S. B. T.

A Pine 8 ins. diam. bears S. 29° W., 165 lbs. dist. marked 1/4 S. B. T.

80.00 Set a basalt stone 16 x 11 x 7 ins. 11 ins. in the ground for Cor. to Secs. 1, 2, 35 and 36, marked with 1 notch on E. and 5 notches on W. edges and raised a mound of stone. alongside. Pits impracticable.

S. B. T. 11 N. R. 23 E. G. & S. R. M.

Land mountainous

Soil 3rd rate.

Timber of Pine.

Vegetation, bunchgrass.

S. 89° 54' W. on a true line between sections 2nd & 35.

Va. 12° 20' East.

Descend.

40.00 Set a basalt stone 19 x 10 x 4 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 Juniper 8 ins. diam. bears S. 12° W, 21 lks. dist. marked $\frac{1}{4}$ S. B. T.

A Pine 4 ins. diam. bears N. 26° W, 16 lks. dist. marked $\frac{1}{4}$ S. B. T.

45.23 Cross Road, bears, N. 46° W. S. 46° E.

80.00 Set a lime stone 20 x 13 x 6 ins. 15 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

Chains.

A Pine 6 ins. diam. bears $N. 61^{\circ} E$, 11 lks. dist.
marked T. 11 N. R. 23 E. S., 35 B. T.

A Pine 6 ins. diam. bears $N. 56^{\circ} W$, 41 lks. dist.
marked T. 11 N. R. 23 E. S., 34 B. T.

A Juniper 4 ins. diam. bears $S. 66^{\circ} E$, 43 lks. dist.
marked T. 10 N. R. 23 E. S., 2 B. T.

A Juniper 5 ins. diam. bears $S. 34^{\circ} W$, 34 lks. dist.
marked T. 10 N. R. 23 E. S., 3 B. T.

Land rolling.

Soil 3rd rate,

Heavy timber of Pine and Juniper.

Undergrowth of cane.

S. B. T. 11 N. R. 23 E. G. & S. R. M.

Chains.

S. $89^{\circ} 54'$ W. on a true line between sections 3 E 34.

Va. 13019' East.

Descend.

40.00 Set a basalt stone $28 \times 16 \times 4$ ins., 21 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.

61.67 Cross Creek, 65 lks. wide, Course N. 24° W. and ascend.

80.00 Set a basalt stone $24 \times 13 \times 6$ ins. 18 ins. in the ground for Cor. to Secs. 3, 4, 3 35 34 marked with 3 notches on W and 3 notches on E. edges and raised a mound of stone. alongside. Pits impracticable.

Land rolling.

Soil 3rd rate,

Heavy timber of Juniper.

Undergrowth of same.

Chains.

S. 89° 52' Won a true line between sections 4 and 33.

Val. 13° 00' East.

Ascend.

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

80.00 Set a basalt stone 19 x 10 x 4 ins., 14 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 Juniper.

Vegetation, bunchgrass.

Chains.

S. 89° 54' W, on a true line between sections 5th & 32,

Val. 12° 30' East.

Ascend.

40.00

Set a *Granite* stone 18 x 18 x 3 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.

80.00

Set a *Basalt* stone 17 x 9 x 4 ins. 11 ins. in the ground for Cor. to Secs. 5, 6, 31 & 32 marked with 1 notch on ~~N~~ and 5 notches on E. edges and raised a mound of stone. alongside. Pits impracticable. Land rolling.

Soil 3^m rate.

Timber of *Juniper*.

Vegetation, bunchgrass

ains.

Ch

S. 89° 54' W. on a true line between sections 6 ^{and} 31.

Va. 13° 00' East.

Ascend.

340 Top of Ridge, bears N. 43° W. ⁹ S. 75° E. and descend.

40.00 Set a basalt stone 16 x 8 x 3 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.

82.76 The Cor. to Tps. 10 ^{and} 11 N. Rs. 22 & 23 E.

Land rolling.

Soil 3rd rate.

Timber of Juniper.

Vegetation, bunchgrass.

July 25th 1880.

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

ains.

Before proceeding further with the exteriors of this
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 fur-
ther tested instrument by reversing.

I took the latitude and found it to be $34^{\circ} 11' N$.

From the Cor. to Tps. 9th & 10 N. Rs. 19 & 20 E,
which is a sandstone set firmly
in the ground, marked with 6
notches on each edge, with a
stone mound, in good order
alongside, 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.

2 Yellow Pine 14 ins. diam. bears N. $23^{\circ} E$, 49 lks. dist.

marked T. 10 N. R. 20 E. S., 31 B. T.

An Oak 8 ins. diam. bears S. $88^{\circ} W$, 86 lks. dist,

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

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

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

I set temporary corners at every half mile, and at 6 miles
0.24 chs. I arrive at a point 72 lks. West of Cor. to Tps,

Chains.

10th & 11th N., Ro. 19th & 20th E., which is a sandstone, set firmly in the ground, marked with 6 notches on each edge, with a stone mound, in good order alongside, from which

A Yellow Pine 10 ins. diam. bears N. 60° W., 181 lks. dist. marked T. 11 N. R. 19 E. S., 36 B. T.

A Yellow Pine 6 ins. diam. bears S. 48° E., 47 lks. dist. marked T. 10 N. R. 20 E. S., 6 B. T.

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

A White Oak 6 ins. diam. bears N. 48° E., 36 lks. dist. marked T. 11 N. R. 20 E. S., 31 B. T.

From which corner I run.

S. 5° W. on a true line between sections 1st & 6.

to 13° 30' East.

Ascend.

40. 24 Set a Sandstone 18 x 10 x 7 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.

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

Chains.

from which

21 White Oak 6 ins. diam. bears S. $43^{\circ}W$, 27 lks. dist.
marked $\frac{1}{2}$ S. B. T.

21 Juniper 10 ins. diam. bears S. $68^{\circ}E$, 72 lks. dist.
marked $\frac{1}{2}$ S. B. T.

80.24 Set a sand stone $6 \times 12 \times 8$ 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 ~~the~~ edges and
raised a mound of stone. alongside, Pits impracticable.
from which

21 Yellow Pine 14 ins. diam. bears S. $43^{\circ}E$, 98 lks. dist.
marked T. 10 N. R. 20 E. S., 7 B. T.

21 Yellow Pine 20 ins. diam. bears S. $60^{\circ}W$, 25 lks. dist.
marked T. 10 N. R. 19 E. S., 12 B. T.

21 Yellow Pine 12 ins. diam. bears N. $23^{\circ}E$, 108 lks. dist.
marked T. 10 N. R. 20 E. S., 6 B. T.

21 Yellow Pine 6 ins. diam. bears N. $48^{\circ}W$, 77 lks. dist.
marked T. 10 N. R. 19 E. S., 1 B. T.

Land mountainous

Soil 3 m rate,

Heavy timber of Pine, Oaks and Juniper.

Undergrowth of same.

2
E. B. T. 10 N. R. 19 E. G. & S. R. M.

chains.

S. 5° W, on a true line between sections 7^{and} 12.

Va. 14° 00' East.

Ascend.

15.00 Top of Ridge, bears U. E. ^{and} S. W. and descend.

26.30 Cross Creek, 10 lks. wide, Course N. 75° E. and ascend.

40.00 A Yellow Pine 24 ins. diam. which I marked $\frac{1}{2}$ S. on W. face, for $\frac{1}{2}$ Sec. Cor.; from which

A Yellow Pine 12 ins. diam. bears N. 45° E, 91 lks. dist. marked $\frac{1}{2}$ S. B. T.

A Yellow Pine 6 ins. diam. bears S. 65° W, 59 lks. dist. marked $\frac{1}{2}$ S. B. T.

72.00 Top of Ridge, bears U. 87° E. ^{and} S. 87° W and descend,

80.00 Set a sandstone 17 x 9 x 3 ins. 11 ins. in the ground for Cor. to Secs. 7, 12, 13 ^{and} 18, marked with 4 notch 80 on S. and 2 notch 80 on W edges and raised a mound of stone. alongside, Pits impracticable. from which

A Juniper 16 ins. diam. bears S. 20° W, 68 lks. dist. marked T. 10 N. R. 19 E. S., 13 B. T.

A Yellow Pine 16 ins. diam. bears N. 77° W, 42 lks. dist. marked T. 10 N. R. 19 E. S., 12 B. T.

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

Chains.

A White Oak 6 ins. diam. bears $N 71^{\circ} E$, 23 lks. dist.
marked T. 104 R. 20 E. S., 7 B. T.

A White Oak 7 ins. diam. bears $S. 75^{\circ} E$, 89 lks. dist.
marked T. 1011 R. 20 E. S., 18 B. T.

Land mountainous

Soil 3rd rate,

Heavy timber of Pine, Juniper and Oak.
Undergrowth of same.

$S. 5^{\circ} W.$ on a true line between sections 13 and 18.

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

Descend.

27.40 Cross Wash, 10 lks. wide, Course $S. 48^{\circ} E.$ and ascend.

40.00 Set a Sandstone $18 \times 10 \times 3$ 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 28 ins. diam. bears $S. 60^{\circ} W.$, 63 lks. dist.
marked $\frac{1}{2}$ S. B. T.

A White Oak 9 ins. diam. bears $N. 41^{\circ} E.$, 55 lks. dist.
marked $\frac{1}{2}$ S. B. T.

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

chains.

40.20 Cross Wash, 20 lks. wide, Course S. 83° E.

56.17 Cross Wash, 18 lks. wide, Course N. 45° E.

80.00 Set a granite stone 15x10x4 ins. 12 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.
from which

A Yellow Pine 8 ins. diam. bears S. 36° E, 48 lks. dist.
marked T. 10 1/2 R. 20 E. S., 19 B. T.

A Yellow Pine 12 ins. diam. bears N. 31° E, 65 lks. dist.
marked T. 10 1/2 R. 20 E. S., 18 B. T.

A Yellow Pine 12 ins. diam. bears N. 33° W, 43 lks. dist.
marked T. 10 1/2 R. 19 E. S., 13 B. T.

A Yellow Pine 16 ins. diam. bears S. 19° W, 61 lks. dist.
marked T. 10 1/2 R. 19 E. S. 24 B. T.

Land rolling.

Soil 3rd rate,

Heavy timber of Pine and Juniper.

Undergrowth of same.

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

No. 1697

Chains.

S. 5' W. on a true line between sections 17th & 24.

Va. 13° 45' East.

Ascend.

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

31.00 Enter Valley, bears, E. and W.

41.00 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

1 Yellow Pine 36 ins. diam. bears N. 65° E, 109 lks. dist.
 marked $\frac{1}{4}$ S. B. T.

1 Yellow Pine 10 ins. diam. bears N. 70° W, 43 lks. dist.
 marked $\frac{1}{4}$ S. B. T.

45.60 Cross Creek, 30 lks. wide, Course E.

46.50 A Spring bears W, 150 lks. dist.

47.30 A Cabin bears W, 40 lks. dist.

52.77 Cross Road, bears, N. 67° E. and S. 61° W.

55.50 Leave Valley, bears E. and W. and ascend.

80.00 Set a Sand stone 18 x 10 x 4 ins. 12 ins. in
 the ground for Cor. to Secs. 19, 24, 25 & 30, marked
 with 2 notch 20 on S. and 4 notch 20 on N. edges and
 raised a mound of stone. alongside. Pits impracticable.

Chains.

from which

A White Oak 10 ins. diam. bears $S. 88^{\circ} W.$, 44 lks. dist.

marked T. 104 R. 19 E. S., 25 B. T.

A Yellow Pine 8 ins. diam. bears $N. 62^{\circ} W.$, 73 lks. dist.

marked T. 104 R. 19 E. S., 24 B. T.

A Yellow Pine 12 ins. diam. bears $N. 20^{\circ} E.$, 36 lks. dist.

marked T. 104 R. 20 E. S., 19 B. T.

No other tree within limits.

Land mountainous. ∇ level.Soil 3^m rate,

Heavy timber of Pine and Oak.

Undergrowth of *Dan* and *Juniper*.

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

Chains.

S. 5' W. on a true line between sections 25 and 30.

Va. 13° 35' East.

Ascend.

4.00 Top of Spur, bears N. 64° E. $\frac{1}{2}$ S 64° W and descend.

16.42 Cross Wash, 18 lks. wide, Course E, and ascend.

40.00 Set a Sand stone 16 x 10 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.

from which

A Yellow Pine 20 ins. diam. bears N. 71° W, 25 lks. dist. marked $\frac{1}{4}$ S. B. T.A White Oak 12 ins. diam. bears N. 32° E, 69 lks. dist. marked $\frac{1}{4}$ S. B. T.47.50 Top of Spur, bears N. 40° E $\frac{1}{2}$ S 40° W and descend.

66.23 Cross Wash, 12 lks. wide, Course N. 35° E and ascend.

80.00 Set a Sandstone 14 x 9 x 3 ins. 9 ins. in the ground for Cor. to Secs. 25, 30, 31 & 36 marked with a notch on S. and 5 notches on E. edges and raised a mound of stone. alongside. Pits impracticable. from which

A Yellow Pine 10 ins. diam. bears S. 60° E, 15 lks. dist.

ains.

marked T. 10 N R. 20 E, S., 31 B. T.

1 Yellow Pine 8 ins. diam. bears N. 56° W, 19 lbs. dist.

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

2 Yellow Pine 12 ins. diam. bears N. 53° W, 20 lbs. dist.

marked T. 10 N R. 19 E, S., 25 B. T.

2 Yellow Pine 10 ins. diam. bears N. 35° E, 25 lbs. dist.

marked T. 10 N R. 20 E, S., 30 B. T.

Land mountainous

Soil 3rd rate,

Heavy timber of Pine and Oak.

Undergrowth of same and Juniper.

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

chains.

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

Va. 130 30 East.

Ascend.

- 10.00 Top of Spur, bears N. 40° E. $\frac{1}{2}$ S. 40° W. and descend.
- 32.65 Cross Wash, 20 lks. wide, Course N. 65° E. and ascend.
- 40.00 Set a post 3 ft. long, 3 ins. diam. with marked stone.
12 ins. in the ground, for $\frac{1}{2}$ Sec. Cor., marked $\frac{1}{2}$ S. on
W. face, dug pits, 18 x 18 x 12 ins., N. and S. of
post 5 $\frac{1}{2}$ ft. dist., and raised a mound of earth 1 $\frac{1}{2}$ ft.
high, 8 $\frac{1}{2}$ ft. base around post. from which
- A Yellow Pine 13 ins. diam. bears S. 60° W. 27 lks. dist.
marked $\frac{1}{2}$ S. B. T.
- A Yellow Pine 12 ins. diam. bears S. 75° E., 37 lks. dist.
marked $\frac{1}{2}$ S. B. T.
- 68.00 Top of Divide, bears N. 84° E. $\frac{1}{2}$ S. 84° W. and descend.
- 80.00 The Cor. to Tps. 9th & 10 N. Rs. 20 & 19 E.

Land mountainous

Soil 3rd rate,

Heavy timber of Pine and Oak.

Undergrowth of same and Juniper.

August 6th 1883.

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 $74^{\circ} 16' N$.

From the Cor. to Tps. 10th & 11 N. Rs. 19 & 20 E, previously described.

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

Va. 130 30' East.

I set temporary corners at every half mile, and at 5 miles 78.20 chs. I arrive at a point 56 lks. North of Cor. to Tps,

10th & 11 N., Rs. 20th & 21 E, which is a post, set firmly in the ground, marked S. 11 N., S. 31 or N. E.; R. 21 E., S. 6 or S. E., S. 10 N., S. 1 or S. W. and R. 20 E., S. 36 or N. W. faces, with 6 notches on each edge; with pits lengthwise on each line, N., S., E. and W. of post and a mound of earth in good order, around post; from which bears:

A yellow Pine, 7 ins. dia. N. $63^{\circ} E$, 42 lks. dist, marked S. 11 N., R. 21 E., S. 31 B. S.

A yellow Pine, 6 ins. dia. N. $20^{\circ} W$, 63 lks. dist, marked S. 11 N., R. 20 E., S. 36 B. S.

A Juniper, 8 ins. dia. S. $35^{\circ} W$, 100 lks. dist, marked S. 10 N., R. 20 E., S. 1 B. S.

Thence I run

S. B. T. 11 N. R. 20 E. G. & S. R. M.

Y. 89° 56' W. on a true line between sections 36 and 1.

Va. 13° 30' East.

19.00
40.00

Descend
Cross Wash, 20 lks. wide, Course S. 60° E. and ascend.

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 Cedar 12 ins. diam. bears N. 12° E, 46 lks. dist.
marked 1/2 S. B. T.

A Juniper 8 ins. diam. bears S. 63° W, 25 lks. dist.
marked 1/2 S. B. T.

80.00

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

12 ins. in the ground, for Cor. to Secs. 1, 2, 35 and 36,
marked T. 11 U S. 36, on N. E., R. 20 E., S. 1
on S. E. ^{7.104.} S. 2 on S. W. and S. 35 on N. W. face,
with 5 notches on W. and 1 notch on E. 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 Cedar 10 ins. diam. bears N. 28° W, 36 lks. dist.
marked T. 104 R. 20 E., S., 2 B. T.

Chains.

A Cedar 8 ins. diam. bears N. 37° W, 54 lks. dist.
marked T. 11 N. R. 20 E. S., 35 B. T.

A White Oak 6 ins. diam. bears S. 10° E, 26 lks. dist.
marked T. 10 N. R. 20 E. S., 1 B. T.

No other tree within limits.

Land rolling.

Soil H^{to} rate,

Heavy timber of Pine and Juniper.

Undergrowth of same.

N. 89° 38' W on a true line between sections 2 and 35.

Va. 13° 00' East.

Ascend.

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

22.15 Cross Wash, 18 lks. wide, Course N. 20' and ascend.

40.00 Set a Sand stone $14 \times 12 \times 4$ 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

A Juniper 12 ins. diam. bears S, 48 lks. dist.
marked $\frac{1}{4}$ S. B. T.

A Pine 6 ins. diam. bears N. 21° E, 63 lks. dist.
marked $\frac{1}{4}$ S. B. T.

Chains.

48.00 Top of Ridge, bears N. 10° W. $\frac{1}{2}$ S. 10° E. and descend.

74.95 Cross Road, bears, N. W. and S. E.

80.00 Set a sand stone 16 x 10 x 8 ins. 11 ins. in the ground for Cor. to Secs. 2, 3, 34 and 35 marked with 4 notch 20 on W. and 2 notches on E. edges and raised a mound of stone. alongside. Pits impracticable. from which

1 Yellow Pine 24 ins. diam. bears N. 5° E., 64 lks. dist. marked T. 11 U. R. 20 E., S., 35 B. T.

1 Yellow Pine 30 ins. diam. bears N. 79° W., 138 lks. dist. marked T. 11 U. R. 20 E., S., 34 B. T.

1 White Oak 12 ins. diam. bears S. 9° W., 108 lks. dist. marked T. 10 U. R. 20 E., S., 3 B. T.

No other tree within limits.

Land mountainous

Soil 3rd rate,

Heavy timber of Pine and Oak.

Undergrowth of same and Juniper.

S. B. T. 11 N. R. 20 E. G. & S. R. M.

Chains.

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

Va. / 3° 45' East.

Descend.

- 40.00 Set a Sand stone 18 x 12 x 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 impracticable. from which
- 1 Yellow Pine 10 ins. diam. bears N. 68° W., 105 lbs. dist. marked $\frac{1}{4}$ S. B. T.
- 1 Yellow Pine 12 ins. diam. bears S. 4° E., 22 lbs. dist. marked $\frac{1}{4}$ S. B. T.
- 40.57 Cross Wash, 30 lbs. wide, Course N. 37° W. and ascend.
- 80.00 Set a Sand stone 20 x 16 x 4 ins. 15 ins. in the ground for Cor. to Secs. 3, 4, 33 & 34, marked with 3 notches on W and 3 notches on E. edges and raised a mound of stone. alongside. Pits impracticable. from which
- 1 Yellow Pine 8 ins. diam. bears N. 11° E., 43 lbs. dist. marked T. 11 N. R. 20 E. S., 34 B. T.
- 1 Yellow Pine 5 ins. diam. bears N. 10° W., 20 lbs. dist. marked T. 10 N. R. 20 E. S., 4 B. T.
- 1 Yellow Pine 8 ins. diam. bears N. 60° W., 70 lbs. dist.

S. B. T. 11 N. R. 20 E. G. & S. R. M.

Chains.

marked T. 11 N. R. 20 E. S. 33 B. T.

No other tree within limits.

Land mountainous

Soil 3rd rate.

Heavy timber of Pine, Oak and Juniper.

Undergrowth of same.

U. 89° 56' W. on a true line between sections 4th / 33.

Va. 13° 45' East.

Ascend.

1.25 Top of Ridge, bears U. 30° W. $\frac{1}{4}$ S. 30° E. and descend.40.00 Set a Sand stone 16 x 12 x 10 ins., 11 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 Yellow Pine 12 ins. diam. bears N. 19° E, 211 lks. dist. marked $\frac{1}{4}$ S. B. T.a Yellow Pine 20 ins. diam. bears S. 14° W, 134 lks. dist. marked $\frac{1}{4}$ S. B. T.

49.60 Cross Creek, 27 lks. wide, Course U. W. and ascend.

50.56 a Cabin bears S., 9.50 chs. dist.

S. R. T. 11 N. R. 20 E. G. & S. R. M.

Chains.

51.20 Enter farm, bears S. 50° E.

73.30 Leans farm, bears N. 10° E.

74.20 Cross Road, bears N. 30° W. ^{and} S. 30° E.

80.00 Set a Sand stone 19x10x9 ins. 14 ins. in
the ground for Cor. to Secs. 4, 5, 32 ^{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

1 Yellow Pine 6 ins. diam. bears S. 33° E, 112 lks. dist.
marked T. 10 N. R. 20 E, S., 4 B. T.

1 Yellow Pine 7 ins. diam. bears S. 33° W, 173 lks. dist.
marked T. 10 N. R. 20 E, S., 5 B. T.

1 Yellow Pine 18 ins. diam. bears N. 34° E, 87 lks. dist.
marked T. 11 N. R. 20 E, S., 3 B. T.

1 Yellow Pine 20 ins. diam. bears N. 49° W, 268 lks. dist.
marked T. 11 N. R. 20 E, S., 32 B. T. ∴

Land mountainous and rolling.

Soil et & gr rate,

Heavy timber of Pine and Juniper.

Undergrowth of same.

Chains.

U. $89^{\circ}56' W.$ on a true line between sections 5 ^{and} 32.

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

Ascend.

21.20 Cross Wash, 9 lks. wide, Course U. $10^{\circ} E.$

40.00 Set a Sand stone $22 \times 12 \times 8$ ins., 16 ins. in the ground, for $\frac{1}{2}$ Sec. Cor., marked $\frac{1}{2}$ on N. face, dug pits, $18 \times 18 \times 12$ ins., E. and W. 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. ^{from which} alongside.

A Yellow Pine 10 ins. diam. bears S $79^{\circ} E.$, 16 lks. dist. marked $\frac{1}{2}$ S. B. T.

A Yellow Pine 10 ins. diam. bears U. $26^{\circ} E.$, 18 lks. dist. marked $\frac{1}{2}$ S. B. T.

80.00 Set a post 4 ft. long, 4 ins. square, with marked stone. 12 ins. in the ground, for Cor. to Secs. 5, 6, 31 ^{and} 32 marked T. 11 N. S. 32, on N. E., R. 20 E., S. 5 on S. E. ^{5, 24,} S. 6 on S. W. and S. 31 on N. W. face, with \int notch on W and \int notches on E. 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 around post.

from which

A Cedar 8 ins. diam. bears E. $23^{\circ} E.$, 19 lks

S. B. T. 11 N. R. 20 E. G. & S. R. M.

Chains.

marked T. 104 R. 20 E. S. 5 B. T.

A Pine 6 ins. diam. bears S. 32° W, 37 lks. dist.
marked T. 104 R. 20 E. S. 6 B. T.A Cedar 10 ins. diam. bears N. 39° W, 42 lks. dist.
marked T. 114 R. 20 E. S. 31 B. T.

No other tree within limits.

Land mountainous

Soil 3^m rate,

Heavy timber of Pine, Cedar and Oak.

Undergrowth of Saw and Juniper.

N. 89° 52' W. on a true line between sections 6 and 31.

Va. 13045 East.

Ascend.

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

40.00 Set a sand stone 16 x 12 x 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. ^{pits} ~~on~~ ^{from which} ~~side.~~
impracticable.A White Oak 10 ins. diam. bears S. 22° E, 44 lks. dist.
marked $\frac{1}{2}$ S. B. T.

A Yellow Pine 12 ins. diam. bears N. 59° E, 51 lks. dist.

S. B. T. 11 N. R. 20 E. G. & S. R. M.

Chains.

marked $\frac{1}{2}$ S. B. T.78.20 The Cor. to Tps. 10th & 11th N. Rs. 19 & 20 E.

Land mountainous

Soil 3rd rate,

Heavy timber of Pine, Juniper and Oaks.

Undergrowth of same.

August 7th 1883.

BOOK 1397

Chains.

From the Cor. to Tps. 10 ^{and} 11 N. Rs. 20 & 21 E,
previously described. I run.

North between sections 31 ^{and} 36

Variation 130° 30' East.

Ascend.

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

40.00 Set a sand stone 15 x 11 x 6 ins., 10
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 Pine 9 ins. diam. bears N. 70° W., 86 lks. dist.
marked $\frac{1}{2}$ S. B. T.

A Pine 5 ins. diam. bears S. 50° E., 90 lks. dist.
marked $\frac{1}{2}$ S. B. T.

62.11 Cross Wash, 5 lks. wide, Course N. 73° E. and ascend.

80.00 Set a post 4 ft. long, 4 ins. square, with marked stone.
12 ins. in the ground, for Cor. to Secs. 25, 30, 31 & 36
marked T. 11 N. S. 30, on N. E., R. 21 E, S. 31
on S. E., ^{R. 20 E,} S. 36 on S. W. and S. 25 on N. W. face,
with 1 notch on S. and 5 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.

Chains.

from which

A Juniper 40 ins. diam. bears $N. 46^{\circ} E$, 39 lks. dist.
marked T. 11 U. R. 21 E. S., 30 B. T.

A Juniper 20 ins. diam. bears $S. 10^{\circ} W$, 34 lks. dist.
marked T. 11 U. R. 20 E. S., 36 B. T.

No other tree within limits.

Land rolling.

Soil 3rd rate,

Heavy timber of Pine and Juniper.

Undergrowth of same.

North between sections 25 and 30.

Variation $13000'$ East.

Descend.

16.79 Cross Wash, 7 lks. wide, Course E, and ascend

40.00 Set a flint stone $17 \times 9 \times 6$ 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 Pine δ ins. diam. bears $S. 73^{\circ} W$, 24 lks. dist.
marked $\frac{1}{2}$ S. B. T.

A Pine 6 ins. diam. bears $N. 39^{\circ} E$, 44 lks. dist.
marked $\frac{1}{2}$ S. B. T.

BOOK 1397

Chains.

52.10 Top of Ridge, bears $N. 83^{\circ} W. \frac{2}{3}$ $S. 83^{\circ} E.$ 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. 19, 24, 25 & 30, marked T. 11 N. S. 19, or N. E., R. 21 E., S. 30 on S. E. ^{R. 20 E.} S. 25 or S. W. and S. 24 on N. W. face, with 2 notch ∞ on S. and 4 notch ∞ on ~~S~~ 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 Juniper 6 ins. diam. bears $S. 15^{\circ} E.$, 17 lks. dist. marked T. 11 N. R. 21 E. S. 30 B. T.

A Juniper 10 ins. diam. bears $N. 74^{\circ} W.$, 50 lks. dist. marked T. 11 N. R. 20 E. S. 24 B. T.

A Juniper 7 ins. diam. bears $S. W.$, 19 lks. dist. marked T. 11 N. R. 20 E. S. 25 B. T.

No other tree within limits

Land mountainous

Soil 3 m rate,

Heavy timber of Pine and Juniper.

Undergrowth of Dandelion.

Chains.

North between sections 19th and 24.Variation $13^{\circ}00'$ East.

Descend.

17.91 Foot of Hill, bears $N. 80^{\circ} E. \frac{1}{2}$ descend.33.97 Cross Wash, 8 lks. wide, Course $N. 51^{\circ} E.$ and ascend.

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

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. 11 U S. 18, or N. E., R. 21 E, S. 19 on S. E. S. ^{R. 20 E,} 24 on S. W. and S. 13 on N. W. face, with 3 notch E on S. and 3 notches E on W. 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 around post.

from which

A Juniper 10 ins. diam. bears $S. 25^{\circ} E.$, 60 lks. dist. marked T. 11 U R. 21 E, S. 19 B. T.

A Juniper 9 ins. diam. bears $N. 67^{\circ} W.$, 15 lks. dist. marked T. 11 U R. 20 E, S. 13 B. T.

A Juniper 7 ins. diam. bears $N. 64^{\circ} E.$, 38 lks. dist. marked T. 11 U R. 21 E, S. 18 B. T.

BOOK 1397

Chains.

No other tree within limits.

Land mountainous

Soil 3rd rate,

Heavy timber of Pine and Juniper.

Undergrowth of same.

North between sections 13 and 18.

Variation 13° 00' East.

Over rolling land.

40.00 Set a Sand stone 29 x 18 x 10 ins., 21 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. and descend.

80.00 Set a Sand stone 23 x 12 x 6 ins. 16 ins. in the ground for Cor. to Secs. 7, 12, 13 & 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,

Heavy timber of Pine and Juniper.

Undergrowth of same.

E. B. T. 11 N. R. 20 E. G. & S. R. M.

BOOK 1397

No. 1397

Chains.

North between sections 7 ^{and 12,}
 Variation 13000' East.

Descend.

- 40.00 Set a Sand stone $19 \times 15 \times 6$ ins., 14 ins. in the ground, for $\frac{1}{4}$ Sec. Cor., marked $\frac{1}{4}$ on W. face, dug pits, $13 \times 13 \times 12$ 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.
- 53.78 Cross Wash, 10 lks. wide, Course U.E. and ascend.
- 74.50 Top of Spur, bears E. and W. and descend.
- 78.50 Cross Wash, 20 lks. wide, Course E. and ascend.
- 80.00 Set a Sand stone $20 \times 15 \times 10$ ins., 15 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 mountainous
- Soil 3rd rate.
- Timber of Pine and Juniper.
- Vegetation, bunchgrass.

Aug. 8 - 1883

BOOK 1397

Chains.

North between sections 1 and 2,
— Variation 1300' East.

Ascend.

3.00 Top of Spur, bears U. E. and S. W., and descend.

29.90 Cross Road, to Snowflake, bears U. E. and S. W.,

40.00 Set a sand stone 18 x 9 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.

54.12 Intersect N. boundary T. 12 N., R. 21 E., 11.00 chs. E. of 1/4 sec. cor. on S. boundary Rec. 31, which is a post 4 ins square with pits & mounds ^{east} from which a cedar 18 ins diam has S 68 E 20 lbs dist

Set a post 4 1/2 ft. long, 4 ins. square, with marked stone 12 ins. in the ground, for Closing Cor. to Tps. 11 N., R's 20 and 21 E marked C. C. T: 11 N., on S. R. 21 E. S. 6, on E. and R. 20 E 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. rub post, 6 ft. dist. and raised a mound of earth 2 1/2 ft. high, 5 ft. base, around post.

Chains.

Land mountainous

Soil *3^m* rate,

Heavy timber of *Pine and Juniper.*

Undergrowth of *same.*

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

August 8th 1880.

BOOK 1397

Chains,

Before proceeding further with the exteriors of this Tp. I made a change of $1/6$ 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.

I took the latitude and found it to be $34^{\circ}00'$
From the Cor. to Tps. 7 and 8 N. Rs. 26 & 27 E,
which is a sandstone, set firmly
in the ground, marked with 6
notches on each edge,
with a stone mound, in good
order, alongside,
From

North between sections 31 and 36,

Variation $14^{\circ}24'$ East.

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 W.
face, and raised a mound of stone alongside. Pits
impracticable.
- 70.70 Cross Creek, 4 lks. wide, Course E, and ascend.
- 80.00 Set a Sand stone $18 \times 12 \times 4$ ins. 12 ins. in

Chains.

the ground for Cor. to Secs. 25, 30, 31 & 36, marked with 1 notch on S. and 5 notches on ~~W~~ edges and raised a mound of stone. alongside, Pits impracticable. Land rolling.

Soil 2nd rate,

~~Heavy~~ timber of Pine and Juniper.

Undergrowth of cane.

North between sections 25 and 30.

Variation 14° 29' East.

Ascend.

40.00 Set a Sand stone 24 x 16 x 4 ins., 18 ins. in the ground, for 1/2 Sec. Cor., marked 1/2 on W. face, and raised a mound of stone. alongside. Pits impracticable.

50.00 Enter Timber, Bears. E. and W.

80.00 Set a Sand stone 18 x 11 x 9 ins. 12 ins. in the ground for Cor. to Secs. 19, 24, 25 & 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 14 ins. diam. bears W. 50° W., 10 lbs. dist. marked T. & N. R. 26 E. S., 25 B. T.

A Yellow Pine 8 ins. diam. bears N. 28° E., 46 lbs. dist. marked T. & N. R. 27 E. S., 19 B. T.

W. B. T. & N. R. 27 E. G. & S. R. M.

Chains.

No other tree within limits.

Land rolling.

Soil 2nd rate.

Timber of Pine and Juniper.

Vegetation, bunchgrass.

North between sections 19 and 24.

Variation $14^{\circ} 29'$ East.

Ascend.

19.00 Leave Timber, Bears. E. and W.

40.00 Set a sand stone $15 \times 11 \times 6$ 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.

80.00 Set a sand stone $16 \times 12 \times 4$ ins. 11 ins. in the ground for Cor. to Secs. 13, 18, 19 & 24 marked with 3 notches on S. and 3 notches on E. edges and raised a mound of stone. alongside, Pits impracticable.
Land rolling.

Soil 2nd rate,

Timber of Pine and Juniper.

Vegetation, bunchgrass.

W. B. T. & N. R. 27 E. G. & S. R. M.

Chains.

North between sections 13 and 18.

Variation $14^{\circ} 29'$ East.

Over rolling land.

28.00 Enter Timber, Bears. E. and W.

40.00 Set a *lava* stone $14 \times 8 \times 8$ 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 Fir 10 ins. diam. bears N. 45° E., 9 lks. dist.
marked $\frac{1}{2}$ S. B. T. No other tree within limits.

80.00 An Aspen 14 ins. diam. which I marked
T. 84 S. 7, on N. E. R. 27 E S. 18 on
R. 26 E,
S. 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 $18 \times 18 \times 12$ ins. in each sec. $5\frac{1}{2}$ ft. dist. and
raised a mound of earth around tree, for cor. to secs.

7, 12, 13 and 18.

Land rolling.

Soil *2nd* rate.

Timber of Pine, Fir and Aspens.

Vegetation, bunchgrass.

W. B. T. & N. R. 27 E. G. & S. R. M.

Chains,

North between sections 7 and 12,
Variation $14^{\circ} 29'$ East.

Descend:

31.00 Cross Creek, 8 lks. wide, Course $N. 50^{\circ} E$, and ascend.

40.00 Set a Sand stone $12 \times 12 \times 7$ ins., 8
ins. in the ground, for $\frac{1}{4}$ Sec. Cor., marked $\frac{1}{4}$ on W.
face, and raised a mound of stone. alongside. Pits
impracticable.

from which

A Yellow Pine 20 ins. diam. bears $N. 20^{\circ} E$, 9 lks. dist.
marked $\frac{1}{4}$ S. B. T.

No other tree within limits.

80.00 A Yellow Pine 16 ins. diam. which I marked
T. 8 U S. 6, on N. E. R. 27 E S. 7 on
S. E. S. 12, on S. W. and S. 1 on N. W. faces,
with 5 notch 20 on S. and 1 notch on E edges,
dug pits $18 \times 18 \times 12$ ins. in each sec. $5\frac{1}{2}$ ft. dist. and
raised a mound of earth around tree, for cor. to secs.
1.6 7 + 12 from which

A Fir 15 ins. diam. bears $S. 89^{\circ} E$, 31 lks. dist.
marked T. 8 U R. 27 E S., 7 B. T.

No other tree within limits.

W. B. T. & N. R. 27 E. G. & S. R. M.

Chains.

Land rolling.

Soil 2nd rate.

Timber of Pine, Fir and Juniper.

Vegetation, bunchgrass.

North between sections 1 and 6,

Variation $14^{\circ} 29'$ East.

Ascend.

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

40.00 Set a post 3 ft. long, 3 ins. diam. with marked stone.
12 ins. in the ground, for $\frac{1}{2}$ Sec. Cor., marked $\frac{1}{2}$ S. on
W. face, dug pits, 18 x 18 x 12 ins., N and S. of
post $5\frac{1}{2}$ ft. dist., and raised a mound of earth $1\frac{1}{2}$ ft.
high, $3\frac{1}{2}$ ft. base around post. from whichAn Aspen 10 ins. diam. bears N. $57^{\circ} 40' E$, 10 lks. dist.
marked $\frac{1}{2}$ S. B. T. No other tree within limits.79.53 Intersect the 2nd Standard Parallel North at a
point 4.90 chs. West of the Standard Cor. on
S. boundary sec. 36. T. 9 N. R. 26 E, which is a
post, 3 ft long 3 ins. dia
set firmly in a mound of
earth - marked S C $\frac{1}{4}$ S on
N. face -

Chains.

at point of intersection
Set a Sand stone 18 x 18 x 15 ins. 12 ins. in the
ground, for ^{Closing} Cor. to Tps. 8 U., R's 26 and
27 E., marked C. C. with 6 notches on S. & E. wedges,
and raised a mound of stone, alongside.

Pits impracticable, from which
A Fir 12 ins. diam. bears N. 83° E., 17 lks. dist.
marked T. 8 U. R. 27 E. S., G B. T.

No other tree within limits.

Land mountainous

Soil 3^m rate.

Timber of Pine and Juniper.

Vegetation, bunch grass.

August 31st 1880.

Resurvey
E. B. T. & N. R. 27 E. G. & S. R. M.

Chains.

After diligent search, being unable to find ^{any} old corner,
on E. B. T. & N. R. 27 E. I go to
The Cor. to Tps. 7 and 8 N. Rs. 27 & 28 E,
which is a larval stone, set
firmly in the ground, marked with
6 notches on each edge and with
a stone mound, in good order
alongside,

from which

1 Yellow Pine 12 1/2 ins. diam. bears S. 80° E, 20 lks. dist.

marked T. 7 U R. 28 E S., 6 B. T.

1 Yellow Pine 14 ins. diam. bears N. 50° E, 14 lks. dist.

marked T. 8 U R. 28 E S., 31 B. T.

and run

North between sections 31 and 36.

Variation 14° 29' East.

Ascend.

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

28.00 Cross Little Colorado River, 30 lks. wide, Course
N. & W. and ascend.

Chains.

40.00 **Set a** lava 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, and raised a mound of stone. alongside. **Pits impracticable.**
 A Yellow Pine 30 ins. diam. bears $\theta. 60^\circ W.$, 27 lks. dist. marked $\frac{1}{4}$ S. B. T. No other tree within limits.

70.00 Leave Timber, Bears. E. and W.

80.00 **Set a** lava stone 16 x 12 x 6 ins. 11 ins. in the ground for Cor. to Secs. 25, 30, 31 & 36, marked with / notch on S. and 5 notch θ on W. edges and raised a mound of stone. alongside, Pits impracticable.
 Land mountainous
 Soil 3rd rate.
 Timber of Pine and Juniper.
 Vegetation, bunch grass.

North between sections 25 and 30.
Variation $14^{\circ} 29'$ East.

Ascend.

0.00 Set a lava stone $14 \times 11 \times 6$ ins., 9 ins. in the ground, for $\frac{1}{4}$ Sec. Cor., marked $\frac{1}{4}$ on W. face, and raised a mound of stone. alongside. Pits impracticable.

0.50 Top of Pine Rock, bearing $E. \frac{1}{2} W.$ and descend.

0.00 Set a lava stone $14 \times 11 \times 6$ ins. 9 ins. in the ground for Cor. to Secs. 19, 24, 25 & 30 marked with 2 notches on S. and 4 notches on ~~W.~~ edges and raised a mound of stone. alongside. Pits impracticable.

A Yellow Pine 48 ins. diam. bears $N. 30^{\circ} W.$, 19 lks. dist. marked T. 8 $\frac{1}{4}$ R. 27 $E. S.$, 24 B. T.

No other tree within limits.

Land rolling.

Soil g rate.

Timber of Pine.

Vegetation, bunchgrass.

E. B. T. 8 N. R. 27 E. G. & S. R. M.

Chains.

North between sections 19^{and} 24.
Variation 14° 29' East.

Descend.

30.00 Cross branch of Colorado River, 25
fms. wide, Course N.E. and ascend.

40.00 Set a lava stone 18x18x16 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.

45.00 Top of Pine Rock, bears N.E. and S.W. our rolling land.

80.00 Set a lava stone 18x11x9 ins., 12 ins. in
the ground for Cor. to Secs. 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.
Land rolling.

Soil 3rd rate.

Timber of Pine.

Vegetation, bunch grass.

E. B. T. 8 N. R. 27 E. G. & S. R. M.

Chains,

North between sections 13 and 18.

Variation 14° 29' East.

Over rolling land.

40.00 Set a Sand stone 16 x 11 x 8 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.

80.00 Set a Lava stone 17 x 10 x 7 ins., 11 ins. in the ground for Cor. to Secs. 7, 12, 13 and 18, marked with H notches on S. and L notches on W edges and raised a mound of stone. alongside, Pits impracticable.

Land rolling.

Soil 3rd rate

Vegetation, bunchgrass.

E. B. T. & N. R. 27 E. G. & S. R. M.

Chains.

North between sections 7 and 12

Variation $14^{\circ} 29'$ East.

Over rolling land.

40.00

Set a Sand stone $16 \times 14 \times 5$ 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.

80.00

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

Soil 3rd rate

Vegetation, bunchgrass.

E. B. T. & N. R. 27 E. G. & S. R. M.

Chains,

North between sections 1 and 6.

Variation 14° 29' East.

Over rolling land.

40.00 Set a lava stone 16 x 11 x 10 ins., 11 ins. in the ground, for 1/2 Sec. Cor., marked 1/2 on W. face, and raised a mound of stone. alongside. Pits impracticable.

78.00 Intersect the 2nd Standard Parallel North at a point 4.73 chs. West of the Standard ^{1/4 sec.} Cor. on E. boundary sec. 36 T. 9 N. R. 27 E., which is a

Post, set firmly in the ground, marked B. C. 14 S. on N. face, with a stone mound, in good order, around post, and

Set a lava stone 14 x 12 x 6 ins. 9 ins. in the ground, for ^{Closing} Cor. to Tps. 8 N. R's 27 and 28 E., marked C. C. with 6 notches on S. E. edges, and raised a mound of stone, alongside.

Pits impracticable,

Land rolling.

Soil 3rd rate

Vegetation, bunchy grass.

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

September 1st 1853

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

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 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 35° 03' N. From the Cor. to Tps. 19th & 20th N. Rs. 8 & 9 E., previously described.

I run,

East. on a true line between sections 6th & 31.

Ascend. Va. 14° 40' East.

To allow for convergency, at

38.47

Set a sand stone 24 x 24 x 15 ins., 18 ins. in the ground, for 1/4 Sec. Cor., marked 1/4 on N. face, and raised a mound of stone. alongside. Pits impracticable.

from which

A Pine 8 ins. diam. bears N. 32° E, 192 lks. dist. marked 1/4 S. B. T.

No other tree within limits.

45.50

Top of Bluff, bears N. W. 1/2 S. E. and over Mesa.

chains.

78.47 Set a sand stone $12 \times 12 \times 6$ ins. 8 ins.
 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 in. practicable
 from which
 A Juniper 14 ins. diam. bears S. $39^{\circ} 10' E$, 245 lks. dist.
 marked T. 19 R. 9 E. S., 5 B. T.
 No other tree within limits.
 Land rolling.
 Soil good rate.
 Timber of Pine and Juniper.
 Vegetation, bunchgrass.

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

Chains.

East. on a true line between sections 5^{and} 32.

Va. 14°40' East.

Descend.

The true point for '14 sec. cor falling in Lake, bears $N. 2^{\circ} W.$ at

30.00

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

12 ins. in the ground, for ^{W. line to} $\frac{1}{4}$ Sec. Cor., marked ^{W. E.} $\frac{1}{4}$ S. onN. 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 whichA Juniper 10 ins. diam. bears $N. 38^{\circ} W.$, 140 lks. dist. marked $\frac{1}{4}$ S. B. T.

No other tree within limits.

50.00

To E. edge of Lake, bears $N. 10^{\circ} E.$ $2^{\circ} W.$ S. $10^{\circ} W.$

80.00

Set a sand stone 16 x 12 x 7 ins. 11 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 whichA Juniper 11 ins. diam. bears $N. 56^{\circ} E.$, 220 lks. dist. marked T. 20 N. R. 9 E, S., 3 B. T.A Juniper 9 ins. diam. bears $N. 30^{\circ} W.$, 196 lks. dist. marked T. 20 N. R. 9 E, S., 2 B. T.

No other tree within limits.

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

Chains.

Land rolling.

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

Vegetation, bunchgrass.

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

Va. 14° 40' East.

Over rolling land.

40.00 A Juniper 12 ins. diam. which I marked $\frac{1}{2}$ S. on N. face, for $\frac{1}{4}$ Sec. Cor.; from whichA Juniper 30 ins. diam. bears S. 13° 14' E., 17 lks. dist. marked $\frac{1}{2}$ S. B. T.A Juniper 12 ins. diam. bears N. 73° W., 24 lks. dist. marked $\frac{1}{2}$ S. B. T.

73.00 Leave Mesa and descend.

80.00 Set a sand stone 24 x 10 x 6 ins. 18 ins. in the ground for Cor. to Secs. 3, 4, 33 & 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 Pine 12 ins. diam. bears N. 3° 14' E., 75 lks. dist. marked T. 20 N. R. 9 E., S., 34 B. T.

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

Chains.

A Juniper 10 ins. diam. bears N. 40° W., 98 lks. dist.

marked T. 2011 R. 9 E., S., 33 B. T.

A Yellow Pine 14 ins. diam. bears S. 10 1/4° E., 70 lks. dist.

marked T. 1911 R. 9 E., S., 3 B. T.

A Yellow Pine 8 ins. diam. bears S. 59° W., 69 lks. dist.

marked T. 1911 R. 9 E., S., 4 B. T.

Land rolling.

Soil 3 m rate,

Heavy timber of Pine and Juniper.

Undergrowth of same.

Chains.

East. on a true line between sections 3rd & 34.

Va. 14° 40' East.

Descend.

- 40.00 Set a Sand stone 20 x 9 x 8 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 Pine 12 ins. diam. bears S. 44° W., 41 lks. dist. marked $\frac{1}{4}$ S. B. T. No other tree within limits.
- 46.25 Cross Wash, 100 lks. wide, Course N. 20° E. and ascend.
- 80.00 Set a Sand stone 20 x 14 x 6 ins. 15 ins. in the ground for Cor. to Secs. 2, 3, 34 and 35 marked with λ notch 20 on W and 2 notch 20 on E. edges and raised a mound of stone. alongside, Pits impracticable. from which
- A Yellow Pine 36 ins. diam. bears S. 10° W., 42 lks. dist. marked T. 19 R. 9 E., S., 3 B. T.
- A Yellow Pine 14 ins. diam. bears N. 50° E., 48 lks. dist. marked T. 20 R. 9 E., S., 35 B. T.
- A Pine 8 ins. diam. bears N. 30° W., 96 lks. dist. marked T. 20 R. 9 E., S., 34 B. T.
- No other tree within limits.

chains.

Land mountainous

Soil 3rd rate,

Heavy timber of Pine and Juniper.

Undergrowth of same.

East. on a true line between sections 2 and 35.

Va. 14° 40' East.

Ascend.

6.50 Top of rocky point, bears N. 25° E. and descend.

40.00 Set a Sandstone 24 x 17 x 6 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 whichA Pine 10 ins. diam. bears N. 85° W., 27 lks. dist.
marked $\frac{1}{4}$ S. B. T.A Juniper 8 ins. diam. bears E. 71° W., 20 lks. dist.
marked $\frac{1}{4}$ S. B. T.80.00 Set a Sandstone 20 x 16 x 7 ins. 10 ins.
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 12 ins. diam. bears E. 31° W., 9 lks. dist.

Chains.

marked T. 194 R. 9 E, S., 2 B. T.

A Juniper 10 ins. diam. bears N. 41° E., 19 lks. dist.

marked T. 204 R. 9 E, S., 36 B. T.

A Juniper 14 ins. diam. bears N. 50° W., 92 lks. dist.

marked T. 204 R. 9 E, S., 35 B. T.

No other tree within limits.

Land mountainous

Soil 3rd rate,

Heavy timber of Pine and Juniper,

Undergrowth of same.

00
S. B. T. 20 N. R. 9 E. G. & S. R. M.

Chains.

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

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

Ascend.

40.00

Set a sand stone $30 \times 26 \times 20$ ins., 22 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 15 ins. diam. bears $S. 45^{\circ}W$, 68 lks. dist. marked $\frac{1}{2}$ S. B. T.

No other tree within limits.

48.00

Top of Spur, bears $N. \text{ and } S.$ and descend.

80.00

Set a sand stone $24 \times 20 \times 8$ ins. 18 ins. in the ground, for Cor. to Tps. 19 and 20 N. R's 9 and 10 E., marked with 6 notches on each edge, and raised a mound of stone. alongside. Pits impracticable.

from which

A Pine 12 ins. diam. bears $S. 32^{\circ}14'E$, 51 lks. dist. marked T. 19 N. R. 10 E, S. 6 B. T.

A Pine 10 ins. diam. bears $N. 47^{\circ}W$, 60 lks. dist. marked T. 20 N. R. 9 E, S. 36 B. T.

A Juniper 18 ins. diam. bears $N. 37^{\circ}14'E$, 88 lks. dist. marked T. 20 N. R. 10 E, S. 31 B. T.

Chains.

No other tree within limits.

Land mountainous

Soil 3rd rate,

Heavy timber of Pine and Juniper.

Undergrowth of same.

October 10th 1883.

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

Chains.

From the Cor to Tps. 19 + 20 N. R. 9 + 10 E. - just established by me North between sections 31 and 36.

Variation 14° 40' East.

Descend.

40.00

Set a Sand stone 24 x 10 x 8 ins., 18 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 10 ins. diam. bears S. 71° W., 20 lks. dist. marked 1/4 S. B. T.

A Juniper 8 ins. diam. bears S. 30° E., 86 lks. dist. marked 1/4 S. B. T.

80.00

Set a Sand stone 20 x 17 x 6 ins. 15 ins. in the ground for Cor. to Secs. 25, 30, 31 & 36, marked with 1 notch on S. and 5 notch on W edges and raised a mound of stone. alongside, Pits impracticable.

from which

A Pine 10 ins. diam. bears S. 47° W., 15 lks. dist. marked T. 20 N. R. 9 E., S., 36 B. T.

A Juniper 30 ins. diam. bears S. 60° E., 48 lks. dist. marked T. 20 N. R. 10 E., S., 31 B. T.

A Pine 8 ins. diam. bears N. 17° W., 40 lks. dist.

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

Chains.

marked T. 20th R. 9 E., S., 25 B. T.

No other tree within limits.

Land mountainous

Soil 3rd rate,

Heavy timber of Pine and Juniper.

Undergrowth of same.

North between sections 25th and 30.

Variation 14° 40' East.

Descend.

40.00

Set a Sand stone 14 x 12 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. from which

A Pine 9 ins. diam. bears S. 44° W, 18 lks. dist. marked 1/2 S. B. T.

A Pine 8 ins. diam. bears S. 28° E., 52 lks. dist. marked 1/2 S. B. T.

41.00

Cross Wash, 150 lks. wide, Course 24 1/2 and ascend.

80.00

Set a post 4 ft. long, 4 ins. square, with marked stone: 12 ins. in the ground, for Cor. to Secs. 19, 24, 25 & 30 marked T. 20th S. 19, or N. E., R 10 E., S. 30 on S. E. S. 25 or S. W and S. 24 on N. W. from

Chains.

with 2 notches on S. and 4 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.

from which

A Pine 8 ins. diam. bears N. 47° W., 66 lks. dist.
marked T. 20 N. R. 9 E., S., 24 B. T.

A Pine 10 ins. diam. bears N. 70° E., 80 lks. dist.
marked T. 20 N. R. 10 E., S., 19 B. T.

A Juniper 8 ins. diam. bears S. 10 1/4° E., 34 lks. dist.
marked T. 20 N. R. 10 E., S., 30 B. T.

No other tree within limits.

Land mountainous

Soil 3rd rate,

Heavy timber of Pine and Juniper.

Undergrowth of same.

Chains.

North between sections 19 and 24.

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

Ascend.

40.00 A Pine 10 ins. diam. which I marked $\frac{1}{2}$ S. on W. face, for $\frac{1}{2}$ Sec. Cor.; from which

A Pine 8 ins. diam. bears $N. 43^{\circ}12' E.$, 18 lks. dist. marked $\frac{1}{2}$ S. B. T.

A Pine 6 ins. diam. bears $N. 38^{\circ} W.$, 82 lks. dist. marked $\frac{1}{2}$ S. B. T.

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

12 ins. in the ground, for Cor. to Secs. 13, 18, 19 and 24 marked T. 20 ^U S. 18, on N. E., R. 10 E., S. 19 on S. E. ^{R. 9 E.} S. 24 on S. W. and S. 13 on N. W. face, 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 Pine 12 ins. diam. bears $N. 67^{\circ} E.$, 66 lks. dist. marked T. 20 ^U R. 10 E., S., 18 B. T.

A Pine 10 ins. diam. bears $S. 85^{\circ} W.$, 92 lks. dist. marked T. 20 ^U R. 9 E., S., 24 B. T.

Chains.

A Juniper 8 ins. diam. bears S. 55° E., 34 lks. dist.
marked T. 20 N. R. 10 E., S., 19 B. T.

Land rolling.

Soil 3rd rate,

Heavy timber of Pine and Juniper.

Undergrowth of Vines.

North between sections 13 and 18.

Variation 14° 40' East.

Over rolling land.

40.00 Set a Sand stone 30 x 25 x 8 ins., 22
ins. in the ground, for $\frac{1}{4}$ Sec. Cor., marked $\frac{1}{4}$ on W.
face, and raised a mound of stone. alongside. Pits
impracticable. from which

A Pine 10 ins. diam. bears N. 47° W., 52 lks. dist.
marked $\frac{1}{4}$ S. B. T.

A Pine 14 ins. diam. bears S. 77° 40' E., 85 lks. dist.
marked $\frac{1}{4}$ S. B. T.

80.00 Set a Sand stone 24 x 17 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 notches on W edges and
raised a mound of stone. alongside. Pits impracticable,
from which

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

Chains.

A Pine 8 ins. diam. bears N. 83° E., 32 lks. dist.

marked T. 20 R. 10 E., S., 7 B. T.

A Pine 11 ins. diam. bears N. 69° W., 71 lks. dist.

marked T. 20 R. 9 E., S., 12 B. T.

A Pine 10 ins. diam. bears S. 45° E., 27 lks. dist.

marked T. 20 R. 10 E., S., 18 B. T.

No other tree within limits.

Land mountainous

Soil 3rd rate,

Heavy timber of Pine and Juniper.

Undergrowth of same.

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

Chains.

North between sections 7th and 12

- Variation 14° 40' East,

Ascend.

40.00

Set a sand stone 15 x 12 x 7 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 Pine 15 ins. diam. bears N. 34° E, 9 lks. dist. marked $\frac{1}{4}$ S. B. T.

A Pine 14 ins. diam. bears S. 50° W, 18 lks. dist. marked $\frac{1}{4}$ S. B. T.

57.00 Top of Bluff, bears N. 70° E. and S. 70° W.

80.00

Set a sand stone 24 x 20 x 10 ins. 18 ins. in the ground for Cor. to Secs. 1, 6, 7th 12, marked with 5 notches on S. and 1 notch on W. edges and raised a mound of stone. alongside, Pits impracticable. from which

A Pine 8 ins. diam. bears N. 80° E, 13 lks. dist. marked T. 20 N. R. 10 E. S., 6 B. T.

A Pine 14 ins. diam. bears N. 47° W, 28 lks. dist. marked T. 20 N. R. 9 E. S., 1 B. T.

A Juniper 12 ins. diam. bears S. 43° E, 29 lks. dist.

Chains.

marked T. 20 N. R. 10 E. S. 7 B. T.

No other tree within limits.

Land rolling.

Soil *3 m* rate,

Heavy timber of Pine *and* Juniper.

Undergrowth of *same*.

North between sections 1 *and* 6.

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

Descend.

38.00 Cross Wash, 80 lks. wide, Course $N. 80^{\circ} E.$ and ascend.

40.00 Set a Sand stone $20 \times 16 \times 8$ ins., 15 ins. in the ground, for $\frac{1}{4}$ Sec. Cor., marked $\frac{1}{4}$ on W. face, and raised a mound of stone alongside. Pits impracticable. from which

A Juniper 10 ins. diam. bears $S. 80^{\circ} W.$, 22 lks. dist. marked $\frac{1}{4}$ S. B. T.

A Pine 8 ins. diam. bears $S. 13^{\circ} E.$, 38 lks. dist. marked $\frac{1}{4}$ S. B. T.

50.19 Intersect the *5th* Standard Parallel *North*, at a point 16.10 chs. West of the Standard Cor. to Secs. 31 and 36. T. 21 N. R. 9 \times 10 E. at which point I. ^{previously set by me.}

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

Chains.

Set a sand stone $20 \times 12 \times 5$ ins. 15 ins. in the ground for Closing Cor. to Tps. 20 N., R's 9 and 10 E., marked C. C., with 6 notches on S., E. & W. edges, dug pits $24 \times 18 \times 12$ ins. crosswise on each line, S., E. & W. of stone 6 ft. dist. and raised a mound of earth, $2\frac{1}{2}$ ft. high, 5 ft. base. along staes. from which

A Juniper 20 ins. diam. bears S. 20° E., 96 lbs. dist. marked T. 20 N. R. 10 E., S., 6 B. T.

A Juniper 18 ins. diam. bears S. $27\frac{1}{4}^{\circ}$ W., 54 lbs. dist. marked T. 20 N. R. 9 E., S., 1 B. T.

No other tree within limits.

Land rolling.

Soil 3rd rate,

Heavy timber of Pine and Juniper.

Undergrowth of Oames

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

October 11th 1883.

W. B. T. 24 N. R. 7 E. G. & S. R. M.

hains.

Before proceeding further with the exteriors of this T; 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.

I took the latitude and found it to be 35° 24' N. From the Cor. to Tps. 23rd & 24th N. Rs. 6 & 7 E,

which is a post set firmly in the ground, marked J. 24 N. S. 31 on N. E. R. 7 E., S. 6 on S. E.; J. 23 N. S. 1 on S. W. and R. 6 E., S. 36 on N. W. faces with 6 notches on each edge; from which were:

a yellow Pine 48 ins. dia., N. 50° W, 84 lks. dist, marked J. 24 N., R. 6 E., S. 36 B. V.

a yellow Pine 6 ins. dia., N. 79 1/2° E, 19 lks. dist, marked J. 24 N., R. 7 E., S. 31 B. V.

a yellow Pine 14 ins. dia., S. 29 1/2° W, 56 lks. dist, marked J. 23 N., R. 6 E., S. 4 B. V.

a yellow Pine 11 ins. dia., S. 58° E, 92 lks. dist, marked J. 23 N., R. 7 E., S. 6 B. V. 3 run North between sections 31st & 36.

Variation 14° 45' East.

Descend.

28.10 Cross Wash, 50 lks. wide, Course N. E. and ascend.

35.18 Cross Road, bears, N. 40° E. ^{2nd} S. 40° W.

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, and raised a mound of stone 1 1/2 ft. high, 3 1/2 ft. base around post. Pits impracticable.

W. B. T. 24 N. R. 7 E. G. & S. R. M.

Chains,

from which

A Yellow Pine 24 ins. diam. bears $\text{C. } 70^{\circ}\text{W.}$, 31 lks. dist.
marked $\frac{1}{2}$ S. B. T.

No other tree within limits.

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

80.00 Set a sand stone $6 \times 12 \times 4$ ins. 11 ins. in
the ground for Cor. to Secs. 25, 30, 31 & 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 24 ins. diam. bears $\text{N. } 60^{\circ}\text{E.}$, 29 lks. dist.
marked T. 244 R. 7 E, S., 30 B. T.

A Yellow Pine 20 ins. diam. bears $\text{S. } 79^{\circ}\text{W.}$, 37 lks. dist.
marked T. 244 R. 6 E, S., 36 B. T.

A Yellow Pine 12 ins. diam. bears $\text{C. } 38^{\circ}\text{E.}$, 125 lks. dist.
marked T. 244 R. 7 E, S., 31 B. T.

No other tree within limits.

Land mountainous

Soil 3rd rate,

Heavy timber of Pine,
undergrowth of ~~o~~ same

W. B. T. 24 N. R. 7 E. G. & S. R. M.

Chains.

North between sections 25 and 30.

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

Descend.

40.00 Set a post 3 ft. long, 3 ins. diam. 24 ins. in the ground,
for $\frac{1}{4}$ Sec. Cor., marked $\frac{1}{4}$ S. on W. face; from whichA Yellow Pine 40 ins. diam. bears $N. 20^{\circ}W$, 17 lks. dist.
marked $\frac{1}{4}$ S. B. T.A Yellow Pine 20 ins. diam. bears $N. 59^{\circ}10'E$, 30 lks. dist.
marked $\frac{1}{4}$ S. B. T.80.00 Set a post 4 ft. long, 4 ins. square, with marked stone.
12 ins. in the ground, for Cor. to Secs. 19, 24, 25 & 30
marked T. 24 N. S. 19, on N. E., R. 7 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 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 Yellow Pine 36 ins. diam. bears $N. 45^{\circ}E$, 39 lks. dist.
marked T. 24 N. R. 7 E, S. 19 B. T.A Yellow Pine 30 ins. diam. bears $N. 20^{\circ}W$, 59 lks. dist.
marked T. 24 N. R. 6 E, S. 24 B. T.

W. B. T. 24 N. R. 7 E. G. & S. R. M.

Chains,

1 Yellow Pine 15 ins. diam. bears S. 29 1/2° E, 130 lbs. dist.
marked T. 24 R. 7 E, S., 30 B. T.

No other tree within limits.

Land mountainous

Soil 3rd rate,

Heavy timber of Pine,

Undergrowth of same,

North between sections 19 and 24.

Variation 14° 45' East.

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.

from which

1 Yellow Pine 14 ins. diam. bears N. 49 1/4° W, 12 lbs. dist.
marked 1/4 S. B. T.

No other tree within limits.

80.00

Set a post 4 ft. long, 4 ins. square, with marked stone.
12 ins. in the ground, for Cor. to Secs. 13, 18, 17 & 24
marked T. 24 R. S. 18, on N. E., R. 7 E, S. 17

W. B. T. 24 N. R. 7 E. G. & S. R. M.

Chains.

- R. 6 E.
 on S. E. S. 24 on S. W and S. 13 on N. W. face,
 with 3 notches on S. and 3 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. from which
- 1 Yellow Pine 30 ins. diam. bears N. 70° E, 36 lks. dist.
 marked T. 24 N. R. 7 E, S., 18 B. T.
- 2 Yellow Pine 40 ins. diam. bears S. 74½° W, 41 lks. dist.
 marked T. 24 N. R. 6 E, S., 24 B. T.
- 3 Yellow Pine 14 ins. diam. bears S. 63° E, 86 lks. dist.
 marked T. 24 N. R. 7 E, S., 19 B. T.
- No other tree within limits.

Lana rolling.

Soil 3rd rate,

Heavy timber of Pine.

Undergrowth of same.

1/6 BOOK 1397
W. B. T. 24 N. R. 7 E. G. & S. R. M.

Chains.

North between sections 13^{and} 18.

Variation 14°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., ∇ and δ of
post $5\frac{1}{2}$ ft. dist., and raised a mound of earth $1\frac{1}{2}$ ft.
high, $3\frac{1}{2}$ ft. base around post. from which

A Yellow Pine 20 ins. diam. bears $N. 12^{\circ} 12' W. 123$ lks. dist.
marked $\frac{1}{4}$ S. B. T.

No other tree within limits.

60.00

Top of Spur, bears E ^{and} 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. 7, 12, 13, 18
marked T. 24 N. S. 7, on N. E., R. 7 E., S. 18
on S. E., S. 13 on S. W. and S. 12 on N. W. face,
with ∇ notches on S. and ∇ 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. from which

A Yellow Pine 20 ins. diam. bears $N. 79^{\circ} 12' W. 90$ lks. dist.
marked T. 24 R. 6 E., S., 12 B. T.

W. B. T. 24 N. R. 7 E. G. & S. R. M.

Chains.

A Yellow Pine 12 ins. diam. bears N. 27 1/2° E., 160 lks. dist. marked T. 24 N. R. 7 E. S. 7 B. T.

No other tree within limits.

Land mountainous

Soil 3rd rate,

Heavy timber of Pine;

Undergrowth of same.

North between sections 7 and 12.

Variation 14° 45' East.

Over rolling land.

40.00

Set a post 3 ft. long, 3 ins. diam. with marked stone. 12 ins. in the ground, for 1/4 Sec. Cor., marked 1/2 S. on W. face, dug pits, 18 x 18 x 12 ins., U. and V. 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 Yellow Pine 20 ins. diam. bears S. 40° W., 57 lks. dist.

80.00

marked 1/2 S. B. T. No other tree within limits.

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

12 ins. in the ground, for Cor. to Secs. 1, 6, 7 & 12

marked T. 24 N. S. 6, on N. E., R. 7 E., S. 7

on S. E. S. 12 on S. W. and S., on N. W. face,

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

around post.

78
T. 24 N. R. 7 E. G. & S. R. M.

Chains.

from which

A Pine 20 ins. diam. bears N. 70° W., 126 lbs. dist.

marked T. 24 R. 6 E., S. 1 B. T.

A Pine 12 ins. diam. bears N. 38° E., 140 lbs. dist.

marked T. 24 R. 7 E., S. 6 B. T.

No other tree within limits.

Land rolling.

Soil 3rd rate,

Heavy timber of Pine,

Undergrowth of same.

Chains.

North between sections / ~~and~~ 6,
 Variation $14^{\circ}45'$ East.

Over rolling land.

3.00 Enter Flat bears $N. 60^{\circ} W.$ ~~and~~ $S. 60^{\circ} E.$

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.

60.00 Intersect the 6th Standard Parallel North at a
 point 10.00 chs. East of the Standard Cor. ^{here,} on
~~previously set by me.~~
 S. boundary sec. 36. T. 24 N. R. 6 E. at which
 point I.

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. 24 N., R's 6 and 7 E marked C. C.
 T: 24 N. on S. R. 7 E. S. 6, on
 E, and R. 6 E. 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,
 Land rolling. and level.

Soil ~~3rd~~ rate

Vegetation, bunchgrass. October 29th 1880

Chains.

from the Cor. to Tps. 23rd 24 N. Rs. 6 & 7E,
previously described.

I run,

East. on a true line between sections 6^{and} 31,

Va. 14°45' East.

Descend.

To allow for convergence, at

38.45

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

A Yellow Pine 12 ins. diam. bears N. 60° E, 53 lbs. dist.
marked $\frac{1}{4}$ S. B. T.

No other tree within limits.

61.50 Cross Wash, 40 lbs. wide, Course N. 30° E and ascend.

78.45

Set a Sand stone 20 x 10 x 8 ins. 15 ins. in
the ground for Cor. to Secs. 5, 6, 31 & 32, marked
with J notch on N and S notches on E. edges and
raised a mound of stone. alongside, Pits impracticable
from which

A Yellow Pine 20 ins. diam. bears N. 55° W, 81 lbs. dist.

S. B. T. 24 N. R. 7 E. G. & S. R. M.

Chains.

marked T. 244 R. 7 E, S., 31 B. T.

A Yellow Pine 18 ins. diam. bears N. 85° E, 103 lks. dist.

marked T. 244 R. 7 E, S., 32 B. T.

A Yellow Pine 17 ins. diam. bears S. 56° E, 67 lks. dist.

marked T. 231 R. 7 E, S., 5 B. T.

No other tree within limits.

Land rolling.

Soil 3rd rate.

Heavy timber of Pice.

Undergrowth of same.

S. B. T. 24 N. R. 7 E. G. & S. R. M

Chains.

East. on a true line between sections $\sqrt{2} \text{ } 32$ Va. $14^{\circ} 45'$ East.

Ascend.

40.00 Set a Sand stone $20 \times 15 \times 12$ 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 15 ins. diam. bears $N. 60^{\circ} E$, 39 lks. dist. marked $\frac{1}{2}$ S. B. T.

A Yellow Pine 14 ins. diam. bears $S. 15^{\circ} W$, 30 lks. dist. marked $\frac{1}{2}$ S. B. T.

71.15 Top of Butte, bears $N. E. \frac{1}{2} S. W$ 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. 4, 5, 32 & 33 marked T. 24 U. S. 33, on N. E., R. 7 E, S. 4 on S. E., S. 5 on S. W, and S. 32 on N. W. face, with 2 notches on W. and 4 notches on E. edges; and raised a mound of stone 2 ft. high, $4\frac{1}{2}$ ft. base around post. Pits impracticable. from which

A Yellow Pine 14 ins. diam. bears $N. 50^{\circ} E$, 67 lks. dist. marked T. 24 U. R. 7 E, S. 33 B. T.

S. B. T. 24 N. R. 7 E. G. & S. R. M.

Chains.

A Yellow Pine 12 ins. diam. bears δ . 23°E, 42 lks. dist.
marked T. 234 R. 7E, S., 4 B. T.

A Yellow Pine 10 ins. diam. bears δ . 20°W, 75 lks. dist.
marked T. 234 R. 7E, S., 5 B. T.

No other tree within limits.

Land rolling.

Soil 3rd rate,

Heavy timber of Pine,

Undergrowth of oaks.

S. B. T. 24 N. R. 7 E. G. & S. R. M.

Chains.

East. on a true line between sections H and 33.

Va. 14° 45' East.

Descend.

40.00 Set a sand stone 16 x 14 x 12 ins., 11 ins. in the ground, for $\frac{1}{4}$ Sec. Cor., marked $\frac{1}{4}$ on W. face, and raised a mound of stone. alongside. Pits impracticable.

from which

A Yellow Pine 12 ins. diam. bears $N. 44^{\circ} 10' E.$, 38 lks. dist. marked $\frac{1}{4}$ S. B. T.

No other tree within limits.

58.00 Cross Wash, 40 lks. wide, Course W. and ascend.

80.00 Set a sand stone 14 x 12 x 8 ins. 7 ins. in the ground for Cor. to Secs. 3, 4, 33 & 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 36 ins. diam. bears $N. 35^{\circ} W.$, 129 lks. dist. marked T. 24 N. R. 7 E., S., 33 B. T.

A Yellow Pine 20 ins. diam. bears $N. 52^{\circ} 14' E.$, 52 lks. dist. marked T. 24 N. R. 7 E., S., 34 B. T.

A Yellow Pine 12 ins. diam. bears $S. 26^{\circ} W.$, 140 lks. dist.

Chains.

marked T. 23/R. 7 E. S. 4 B. T.

No other tree within limits.

Land rolling.

Soil 3rd rate,

Heavy timber of Pine.

Undergrowth of same.

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

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

Ascend.

40.00

Set a sand stone $20 \times 10 \times 7$ 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 14 ins. diam. bears N. $22^{\circ}E$, 110 lks. dist.

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

No other tree within limits.

60.00

Top of Ridge, bears N. $60^{\circ}E$. 2^{nd} S. $60^{\circ}W$ and descend.

80.00

Set a sand stone $36 \times 18 \times 14$ ins. 27 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.

S. B. T. 24 N. R. 7 E. G. & S. R. M.

Chains.

from which

A Yellow Pine 12 ins. diam. bears N. 30° E., 76 lks. dist.
marked T. 244 R. 7 E., S., 35 B. T.

A Yellow Pine 10 ins. diam. bears N. 10 1/4° W., 41 lks. dist.
marked T. 244 R. 7 E., S., 34 B. T.

A Yellow Pine 14 ins. diam. bears S. 44° E., 57 lks. dist.
marked T. 231 R. 7 E., S., 2 B. T.

Land mountainous

Soil *gr* rate,
Heavy timber of Pine,
Undergrowth of same.

East. on a true line between sections 2 and 35.

Va. 14-45 East.

Descend.

40.00 Set a ^{mount} Sand stone 20 x 12 x 8 ins., 15
ins. in the ground, for 1/4 Sec. Cor., marked 1/4 on N.
face, and raised a mound of stone. alongside. **Pits**
impracticable. from which

A Yellow Pine 20 ins. diam. bears N. 7 1/4° E., 10 lks. dist.
marked 1/4 S. B. T.

A Yellow Pine 22 ins. diam. bears S. 12 1/4° E., 22 lks. dist.
marked 1/4 S. B. T.

Chains.

80.00

Set a Sandstone 20 x 18 x 12 ins. 15 ins. in
 the ground for Cor. to Secs. 1, 2, 35-536 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 18 ins. diam. bears N. 60° E., 320 lks. dist.
 marked T. 24 R. 7 S., 36 B. T.

No other tree within limits.

Land mountainous

Soil 3rd rate,

Heavy timber of Pine,

Undergrowth of Rame,

S. B. T. 24 N. R. } E. G. & S. R. M.

Chains.

East. on a true line between sections 1st and 36.Va. $14^{\circ}45'$ East.

Descend.

11.25 Cross Wash, 25 lks. wide, Course N. and ascend.

40.00 Set a Sand stone $18 \times 14 \times 8$ 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 10 ins. diam. bears S. $60^{\circ}W$, 120 lks. dist. marked $\frac{1}{4}$ S. B. T.

No other tree within limits.

80.00 Set a post, $4\frac{1}{2}$ ft. long, 4 ins. square, with marked stone 12 ins. in the ground, for Cor. to Tps. 23 & 24 U., R's 7 and 8 E., marked T. 24 U., S. 31, on N. E. R. 8 E. S. 6, on S. E. T. 23 U. S. 1 on S. W. and R. 7 E., S. 36, on N. W. faces, with 6 notches on each edge, and raised a mound of stone $2\frac{1}{2}$ ft. high, $5\frac{1}{2}$ ft. base around post. Pits impracticable.

from which

A Pine 10 ins. diam. bears N. $20^{\circ}E$, 70 lks. dist.

S. B. T. 24 N. R. 7 E. G. & S. R. M.

Chains.

marked T. 24 R. 8 E, S., 31 B. T.

A Pine 12 ins. diam. bears N. 80° W., 94 lbs. dist.

marked T. 24 R. 7 E, S., 36 B. T.

A Juniper 10 ins. diam. bears S. 69 1/2° W., 144 lbs. dist.

marked T. 23 R. 7 E, S., 6 B. T.

No other tree within limits.

Land mountainous

Soil 3^m rate,

Heavy timber of Pine,

Undergrowth of same.

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

October 30th 1883,

Chains.

From the Cor. to Secs 23 & 24 N. R. 7th E
 just established by me - 9 min
 North between sections 31^{and} 36.

Variation $14^{\circ}45'$ 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, 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 Pine 8 ins. diam. bears $N. 27^{\circ}34' W.$, 120 lks. dist.
 marked $\frac{1}{4}$ S. B. T.

No other tree within limits.

80.00 Set a post 4 ft. long, 4 ins. square, with marked stone,
 12 ins. in the ground, for Cor. to Secs. 25, 30, 31 & 36,
 marked T. 24 U.S. 30, on N. E., R. 8 E, S. 31
 on S. E., S. 36 on S. W, and S. 25 on N. W. face,
 with 1 notch on S. and 5 notches on W. edges;
 and raised a mound of stone 2 ft. high, $4\frac{1}{2}$ ft. base
 around post. Pits impracticable.

from which

A Juniper 10 ins. diam. bears $S. 6\frac{1}{2}^{\circ} E.$, 58 lks. dist.
 marked T. 24 U.S. 30, S. 31 B. T.

A Juniper 8 ins. diam. bears $S. 52^{\circ}46'$, 190 lks. dist.
 marked T. 24 U.S. 30, S. 36 B. T.
 No other tree within limits.
 Lana rolling.

marked T. 24 U R. 76, S. 36 B. T.

No other tree within limits.

Lana rolling.

Soil 3rd rate,

Heavy timber of Pine ⁱⁿ Juniper.

Undergrowth of Dane.

North between sections 25^{4a} & 30.

Variation 14° 45' East

Descend.

BOOK 1897

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

12 ins. in the ground, for $\frac{1}{2}$ Sec. Cor., marked $\frac{1}{2}$ S. on

W. face, and raised a mound of stone 1 $\frac{1}{2}$ ft. high,

3 $\frac{1}{2}$ ft. base around post. Pits impracticable. from which

A Pine 12 ins. diam. bears $N. 84\frac{1}{2}^{\circ} E,$ 33 lks. dist.

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

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

12 ins. in the ground, for Cor. to Secs. 17, 24, 20 & 30

marked T. 24 U S. 17, or N. E., R. 8 E, S. 30

on S. E. S. 25 on S. W. and S. 24 on N. W. face,

with 2 notch ∞ on S. and 4 notch ∞ on W. edges;

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

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

around post.

from which

A Pine 12 ins. diam. bears $N. 89\frac{1}{2}^{\circ} E,$ 25 lks. dist.

marked T. 24 U R. 8 E, S. 19 B. T.

A Pine 8 ins. diam. bears $S. 23^{\circ} W,$ 32 lks. dist.

marked T. 24 U R. 7 E, S. 25 B. T.

A Pine 10 ins. diam. bears $S^{\circ} 60^{\circ} E,$ 130 lks. dist.

marked T. 24 U R. 8 E, S. 30 B. T.

E. B. T. 24 N. R. > E. G. & S. R. M.

ains.

No other tree within limits.

Land rolling.

Soil 3rd rate,

Heavy timber of Pine and Juniper.

Undergrowth of same.

North between sections 19th and 24th

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

Descend.

34.00 Cross Wash, 100 yds. wide, Course E. and ascend.

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

12 ins. in the ground, for $\frac{1}{4}$ 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 12 ins. diam. bears N. 28° W., 130 yds. dist.

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

No other tree within limits.

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

12 ins. in the ground, for Cor. to Secs. 13, 15, 19 & 24

marked T. 24 N. S. 18, on N. E., R. 8 E., S. 19

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

with S notches on S. and N notches on E edges;

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

around post. Pits impracticable.

92
E. B. T. 24 N. R. 7 E. G. & S. R. M.

Chains.

from which

A Pine 14 ins. diam. bears $S. 58^{\circ} 14' W.$, 59 lks. dist.
marked T. 244 R. 7 E., S., 24 B. T.

A Juniper 10 ins. diam. bears $S. 28^{\circ} E.$, 130 lks. dist.
marked T. 244 R. 8 E., S., 19 B. T.

No other tree within limits.

Land rolling.

Soil 3rd rate,

Heavy timber of Pine and Juniper.

Undergrowth of same.

North between sections 13 and 18.

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

Ascend.

33.00 Top of Ridge, bears $E. and W.$ and descend.

40.00 Set a post 3 ft. long, 3 ins. diam. with marked stone.
12 ins. in the ground, for $\frac{1}{4}$ 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 sand stone 15 x 12 x 8 ins. 10 ins. in
the ground for Cor. to Secs. 7, 12, 13 & 18 marked
with 4 notches on S. and 2 notches on Δ wedges and
raised a mound of stone. alongside. Pits impracticable.

E. B. T. 24 N. R. 7 E. G. & S. R. M.

Chains.

Land mountainous

Soil 3rd rate.

Timber of Pine and Juniper.

Vegetation, bunchgrass.

North between sections 7th and 12.Variation $14^{\circ}45'$ East.

Descend.

40.00 Set a post 3 ft. long, 3 ins. diam. with marked stone.
12 ins. in the ground, for $\frac{1}{2}$ 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. 27° W, 148 lks. dist.
marked $\frac{1}{2}$ S. B. T. No other tree within limits.

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

12 ins. in the ground, for Cor. to Secs. 1, 6, 7th and 12,
marked T. 24 U.S. 6, on N. E., R. 8 E, S. 7
on S. E. S. ^{R. 7 E.} 12 on S. W. and S. 1 on N. W. face,
with 5 notches on S. and 1 notch on W edges;

dug pits, 18 x 18 x 12 ins. in each Sec., $5\frac{1}{2}$ ft. dist.,
and raised a mound of earth 2 ft. high, $4\frac{1}{2}$ ft. base
around post.

Chains.

Ch

from which

A Pine 12 ins. diam. bears N. $74^{\circ}14'$ E., 54 lks. dist.
 marked T. 244 R. 8 E., S., 6 B. T.

A Pine 8 ins. diam. bears N. $42^{\circ}05'$, 140 lks. dist.
 marked T. 244 R. 7 E., S., 1 B. T.

No other tree within limits.

Land mountainous

Soil 3 m rate.

Timber of Pine and Juniper.

Vegetation same.

North between sections 1 and 6.

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

Descend.

4.00 Cross Road, bears, N. E. and S. W.

32.00 Cross Wash, 80 lks. wide, Course E. and ascend.

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

E. B. T. 24 N. R. 7 E. G. & S. R. M.

chains.

A Juniper 8 ins. diam. bears $U. 28^{\circ} 20'$, 96 lks. dist marked $\frac{1}{4}$ S. B. T. No other tree within limits.

61.00 Intersect the 6th Standard Parallel North at a point 7.25 chs. East of the Standard ^{1/4 sec.} Cor. line S. boundary sec, 36. T. 25 N. R. 7 E., at which point I. previously set by me.

Set a post, 4 1/2 ft. long. 4 ins. square, with marked stone 12 ins. in the ground, for Closing Cor. to Tps.

24 N., R's 7 and 8 E., marked C. C. T. 24 N. on S., R. 8 E. S. 6 on E. and R.

7 E. S. 1 on W. faces with 6 notches on S. E. & W. faces, and raised a mound of stone 2 1/2 ft. high, 5 ft. base, around post, Pits impracticable.

Land mountainous

Soil 3rd rate.

Timber of Pine and Juniper.

Vegetation, bunchgrass.

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

October 31st 1883

For final oath see Book No. 13,

BOOK 1397

U. S. Surveyor General's Office,

Tucson, Arizona, July 26, 1884

The foregoing Field Notes of the Survey of ^{a portion} ~~the~~ of the ~~British~~ lines of Township 11 N. Range 23 East. Tps. 10 N. R. 19 East Tps. 11 N. R. 20 E. Tps. 8 N. R. 27 East Tps. 20 N. R. 9 E. and Tps. 24 North. Range 7 East,

Of the Gila and Salt River Base and Meridian, Arizona, executed by A. C. Shoumaker

Deputy Surveyor, under his contract of the Fifth day of August, 1884, having been

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

Royali Johnson
Surveyor General.