

24.

3
x

BOOK 1321

No. 1321

1321

4-671

FIELD NOTES

GENERAL LAND OFFICE.

*Patenters Tbs 10, 14, 15 & 16 N
hs 4 & 15 B*

No. 1321

BOOK 1321

No. 1321

- ✓ T14N. R15E ✓ North boundary p 128-138 ✓
- ✓ T15N R14E ✓ East boundary p 139-146 ✓
- ✓ T15N R14E ✓ North boundary p 147-155 ✓
- ✓ T15N R15E ✓ East boundary p 156-163 ✓
- ✓ T15N R15E ✓ North boundary p 163-170 ✓
- ✓ T16N. R14E ✓ East boundary p 171-178 ✓
- ✓ T16N R15E ✓ East boundary p 179-185 ✓

		177		184							
		175		183							
	S. 14 N, R. 14 E	174	S. 15 N, R. 15 E	182							
		173		181							
		172		180							
		171		179							
148	149	151	152	153	155	164	165	166	167	168	169
		145		162							
		144		161							
	S. 15 N, R. 14 E	143	S. 15 N, R. 15 E	159							
		142		158							
		140		157							
		139		156							
		128	129	130	131	133	135	137			
	S. 14 N, R. 14 E			S. 14 N, R. 15 E							

Exterior Boundaries T. 14 N. R. 15 E. Cont^d

Chain

dist marked T. 15. N. R. 16 E. S. 31 B. T.

A cedar 20 ins diam bears N 28° W. 170 lks

dist. marked T. 15. N. R. 15 E. S. 36 B. T.

Land broken and rolling.

Soil 3^d and 4th rate

Timber, cedar and pines 80 chs.

Nov. 25th 1893

At 12 M. Nov 25th 1893 I took an observation on the Sun and found my instrument in perfect adjustment
Latitude 34° 38' N. Pa. 13° 54' E

From the cor to Tps 14 & 15 N. Rs 15 & 16
E. I run West on a random line bet-
ween said Townships the variation
of my compass being 13° 54' E. I set
temporary half mile and mile corners
at each 40 chs and 80 chs and find the

Exterior Boundaries T. 14 N R. 15 E

Chains

township line to be 6 miles 500 and
50 lks long and the falling to be 16 lks
S. of the cor to Tps. 14 & 15 N. Rs. 14 & 15 E.

The correction for the true line will
therefore be $2\frac{2}{3}$ lks S. ~~and 5.50 chs that~~
per mile, and its course will be $S 89^{\circ} 59' E$

From the cor to Tps. 14 & 15 N. Rs. 14 & 15 E
hereinbefore described

From

$S 89^{\circ} 59' E$ on a true line bet Secs 6 & 31

$N. 13^{\circ} 54' E$

Over level ground.

18.50 Trail course NW.

45.50 Set a limestone $28 \times 12 \times 4$ ins 21 ins
in the ground for $\frac{1}{4}$ Sec Cor. marked
 $\frac{1}{4}$ on N. face dug pits $18 \times 18 \times 12$ ins
E & 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

Exterior Boundaries T. 14 N. R. 15 E.

Chain

base alongside.

No trees within limits.

79.50 Enter timber

85.50 Set a limestone 20 x 16 x 4 ins 15 ins in
the ground for cor to Secs 5, 6, 31 & 32
marked with 5 notches on E and 1
notch on W. edge

from which

A cedar 14 ins. diam bears N. 16° E 38 lbs
dist. marked T. 15 N. R. 15 E. S. 32 B.F.

A pine 8 ins diam bears N. 70° W. 91 lbs
dist. marked T. 15 N. R. 15 E. S. 31 B.F.

A pine 4 ins. diam bears S. 27° W. 43 lbs
dist. marked T. 14 N. R. 15 E. S. 6 B.F.

A pine 7 ins diam bears S. 65° E 116 lbs dist
marked T. 14 N. R. 15 E. S. 5 B.F.

Land level

Soil 1st rate

Exterior Boundaries T. 14 N. R. 15 E.

Chambers

Timber, cedar and pine 6 chs.
~~The easily timbered land 6 chs~~

S. 89° 59' E on a true line bet Sec 5 & 32.

Dr. 13° 54' E

Over rolling ground.

15.00 Enter valley and leave timber

37.70 Cross road bears N E.

40.00 Set a limestone 18 X 10 X 8 ins 12 ins in
 the ground for $\frac{1}{4}$ Sec cor. marked $\frac{1}{4}$
 on N. face; dug pits 18 X 18 X 12 ins E
 & 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 along side.

No trees within limits.

46.00 Enter timber and leave valley

63.00 Draw 2 chs wide bears N & S.

74.00 Leave timber.

80.00 Set a limestone 26 X 15 X 2 ins 20 ins in

Exterior Boundaries T. 14 N. R. 15 E.

Chain

the ground for cor to Secs 4, 5, 32 & 33
marked with 4 notches on 6 and 2
notches on 17 edges and raised a
mound of stone $1\frac{1}{2}$ ft high 2 ft base
along side. Pits impracticable.

Land calling.

Soil 1st and 2^d rate

Timber cedar and pinon 74 chs.
Heavily timbered 74 chs

S. 89° 59' E on a true line bet Secs 4 & 33

Na. 13° 54' E

Through timber

1.80 Road bears NE.

9.00 Trail, course N. N. W.

12.00 Enter timber.

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

Exterior Boundaries T. 14 N. R. 15 E

Chairs

from which

A pine 10 ins diam bears N. 70° W. 111 lks
dist. marked 1/4 S. B. T.

A cedar 16 ins diam bears S. 50° E 70 lks
dist. marked 1/4 S. B. T.

80.00 Set a limestone 16 X 14 X 3 ins 11 ins in
the ground for cor to Secs 3, 4, 33 & 34
marked with 3 notches on E & W face

from which

A pinon 10 ins diam bears S. 20° 30' W. 70 lks
dist. marked T. 14 N. R. 15 E. S. 1/4 B. T.

A pinon 12 ins diam bears N. 45° W. 65 lks
dist. marked T. 15 N. R. 15 E. S. 33 B. T.

A pinon 8 ins diam bears S. 61° E 44 lks
dist. marked T. 14 N. R. 15 E. S. 3 B. T.

A pinon 12 ins diam bears N. 83° 30' E.
47 lks dist. marked T. 15 N. R. 15 E. S. 34 B. T.

Land calling.

Exterior Boundaries T. 14 N. R. 15 E.

Chains

Soil 1st and 2^d cuts

Timber, cedar and pinon 68 chs.

Heavily timbered land 68 chs.

S. 89° 59' E on a true line bet Secs 3 & 34

Pa. 13° 54' E

Through timber.

7.00 Descend.

18.00 Reach bottom and ascend. br N.E.

20.00 Top of ridge and descend.

26.00 Bottom and ascend Course N.E.

30.00 Top of mesa.

34.90 Trail course S.

39.00 Descend into gulch course S.

40.00 Set a benchmark 14 x 12 x 5 ins 10 ins
in the ground for 1/4 sec cor. marked
1/4 on N. face

from which

A pine 4 ins diam bears S. 57° E. 42 Mo

Exterior Boundaries T. 14 N. R. 15 E.
Chairs.

- dist. marked $\frac{1}{4}$ S. B. T.
- A cedar 10 ins diam bears N. 64° W.
- 47 lks dist. marked $\frac{1}{4}$ S. B. T.
- 40.30 Bottom of gulch and ascend.
- 41.50 Top of mesh
- 47.50 Cross trail bears N & S.
- 80.00 A Limestone in place 1 x 3 ft
and 2 ins. above ground which I
mark with X at exact corner point
and 2 notches on E and 4 notches on
W. edges, for Cor. to sec's 2, 3, 34 & 35
from which
- A pine 6 ins diam bears S. 25° E 73 lks
dist. marked T. 14 N. R. 15 E. S. 2 B. T.
- A cedar 15 ins diam bears S. 71° W. 79 lks
dist marked T. 14 N. R. 15 E. S. 3 B. T.
- A cedar 8 ins diam bears N 30° W. 57 lks
dist marked T. 15 N. R. 15 E. S. 34 B. T.

Exterior Boundary T. 14 N. R. 15 E.

Chains

A pine 7 ins diam bears N. 80° 30' E 120 ft
dist marked T. 15 N. R. 15 E. S. 35 B. 5.

Land broken

Soil 3^d rate

Timber, pine and cedar 80 chs.

~~The~~ ~~mainly~~ timbered land 80 chs

S. 89° 59' E on a true line bet Secs 28 & 35

N. 13° 54' E

Through timber.

1.00 Cross gutch course S. E.

8.00 Descend into Chevelon Cañon

15.00 Bottom course N. and ascend.

20.00 Top

28.00 Descend

32.00 Bottom of Chevelon Cañon course S. E.

34.00 Ascend

40.00 Set a limestone 15 x 10 x 4 ins 10 ins
in the ground for 1/4 Sec box marked

Exterior Boundaries T. 14 N. R. 15 E
 Chains.

1/4 on N face and raised a mound
 of stone 1 1/2 ft high 2 ft base alongside
 It is impracticable

No trees within limits

William's ranch bears N.W. about
 15 cbs dist.

46.00 ^{Top of} East bank of Cherdon Canon

80.00 Set a limestone 17 x 12 x 6 ins 12 ins
 in the ground for cor to Secs 1, 2, 35
 and 36 marked with 1 notch on E.
 and 5 notches on W. edge

from which

A cedar 12 ins diam bears S. 40° W. 92 lks
 dist marked T. 14 N. R. 15 E. S. 2 B.F.

A cedar 12 ins diam bears S. 45° E 58 lks
 dist. marked T. 14 N. R. 15 E. S. 1 B.F.

A pine 10 ins diam. bears N. 88° W. 95 lks
 dist marked T. 15 N. R. 15 E. S. 35 B.F.

Eastern Boundary T. 14 N. R. 15 E.

Stamie

A pine 4 in diam bears N. $71^{\circ} 6'$ 86 lbs
 dist. marked T. 15 N. R. 15 E. S. 36 BS.

Land rough and broken

Soil 3^d and 4th rate

Timber, cedar and pine 80 chs.
 Heavily timbered land 80 chs

S. $89^{\circ} 59' E$ on a true line bet Secs 1 & 36

Pa. $13^{\circ} 54' E$

Descending through timber.

2.30 Cross road bears N & S.

2.50 Lumber house of Waters' Cattle Co.
 on line.

13.60 Bottom of cañon 1 ch. wide course N.

14.00 Ascend.

22.52 Edge of cañon

40.00 Set a limestone $16 \times 14 \times 14$ in 11 in
 in the ground for $\frac{1}{4}$ Sec Co marked
 $\frac{1}{4}$ on N. face

Exterior Boundaries T. 14 N. R. 15 E.
Canyon.

from which

A pinpoint in diam bears N. 85° E 74 lks
dist. marked 1/4 S.P.F.

A pinpoint in diam bears S. 82° 30' W.
122 lks dist marked 1/4 S.P.F.

41.00 Descend.

45.00 Bottom of canyon course N.

46.00 Trail course N. W, and ascend.

50.00 Edge of canyon

80.00 The cor to Tps 14 & 15 N. R. 15 & 16 E.

herein before described

Land broken

Soil 3^d and 4th rate

Timber cedar and pinon 80 cks.
Heavily timbered land 80 cks
Nov 26th 1893

copy

*Exterior of S. 14 N. R. 15 E.
Latitudes, departures and closing errors*

<i>Line designated True bearing</i>	<i>Distance</i>	<i>Latitudes</i>		<i>Departures</i>	
		<i>N.</i>	<i>S.</i>	<i>E.</i>	<i>W.</i>
<i>N. boundary North</i>	<i>480.00</i>	<i>480</i>			
<i>N. boundary S 89° 57' E</i>	<i>485.50</i>		<i>.16</i>	<i>485.50</i>	
<i>S. boundary South</i>	<i>480.00</i>		<i>480.00</i>		
<i>S boundary N 89° 57' W</i>	<i>487.10</i>	<i>44</i>			<i>487.10</i>
<i>Convergency</i>				<i>.50</i>	
		<i>480</i>	<i>4480.16</i>	<i>486.00</i>	<i>487.10</i>
		<i>480.16</i>		<i>486.00</i>	<i>486.00</i>
	<i>Error in lat. .28</i>			<i>Error in dep. 1.10</i>	

East Boundary.

Easterly Boundaries T. 15 N. R. 14 E.

15.00

From the cor to Tps 14 & 15 N. R. 14
and 15 E. here is slope described
I run

North bet Secs 31 & 36

Va. $13^{\circ} 55' E.$

Over rolling ground.

20.00 Enter timber

40.00 Set a limestone $17 \times 10 \times 10$ ins 12 ins
in the ground for $\frac{1}{4}$ Sec cor. marked
 $\frac{1}{4}$ on W. face

from which

A cedar 16 ins diam bears S. $31^{\circ} 30' W.$ 46 ins
dist. marked $\frac{1}{4}$ S. B. F.

A pinon 10 ins. diam bears N. $23^{\circ} E$ 249
ins dist. marked $\frac{1}{4}$ S. B. F.

75.00 Leave scattering timber

80.00 Set a limestone $18 \times 11 \times 4$ ins 12 ins
in the ground for cor to Secs 25.30.

Exterior Boundaries T. 15 N. R. 14 E.
Chain

31 & 36 marked with 5 notches on N
and 1 notch on S. edges

from which

A pinon 12 ins diam. bears N. $52^{\circ}30'W$

195 lks dist. marked T. 15 N. R. 14 E. S. 25 B. 9.

A cedar 18 ins diam bears N. $5^{\circ}30' E$ 131

lks dist. marked T. 15 N. R. 15 E. S. 30 B. 7.

A cedar 15 ins diam bears S. $31^{\circ}30' E$ 286 lks

dist marked T. 15 N. R. 15 E. S. 31 B. 5.

A pinon 6 ins diam bears S. $12^{\circ}W$.

271 lks dist marked T. 15 N. R. 14 E. S. 36 B. 5.

Land rolling

Soil 1st and 2^d rate

Timber cedar and pinon 55 chs.

Heavily timbered land 55 chs

North bet Secs 25 & 30

N. $13^{\circ}55' E$

Over rolling ground.

Eastern Boundary T. 15 N. R. 14 E.

Chen's

- 35.00 Draw, 1 ch wide course E. N. E.
- 40.00 Set a limestone $14 \times 12 \times 4$ ins 10 ins in the ground for $\frac{1}{4}$ Sec. marked $\frac{1}{4}$ on W. face and raised a mound of stone $1\frac{1}{2}$ ft high 2 ft base along side. Pits impracticable
No trees within limits.
- 59.55 Cross road bears E. N. E.
- 80.00 Set a limestone $18 \times 10 \times 4$ ins 12 ins in the ground for cor to Secs 19, 24, 25 & 30 marked with notches on N and 2 notches on S edges and raised a mound of stone $1\frac{1}{2}$ ft high 2 ft base along side. Pits impracticable
From which
A cedar 10 ins diam bears S. $130^{\circ} 30'$ W.
- 73 the dist marked S. T. 15 N. R. 14 E. S. 25 1/2
a cedar 12" dia diam bears N $80^{\circ} 40'$ W. 38 the dist
marked 57 1/2 H. R. 14 E. S. 24 1/2 P. 1/2
No other bearing trees within limits.

Interior Boundaries T. 15 N. R. 14 E.
 Chains

Land rolling.

Soil 2^d rate

Scattering cedar and pinon 80chs.

North bet Seco 19 & 24

Va. $13^{\circ}54' E$

Over rolling ground.

40.00 Set a limestone $18 \times 10 \times 6$ ins 12 ins
 in the ground for $\frac{1}{4}$ Sec Cor marked
 $\frac{1}{4}$ on W. face

from which

A pine 4 ins diam bears N. $40^{\circ} E$ 240 lks
 dist. marked $\frac{1}{4}$ S. B. T.

A pine 5 ins diam bears S. $82^{\circ} 30' W$. 60 lks
 dist. marked $\frac{1}{4}$ S. B. T.

52.00 Road bears E. N. E.

80.00 Set a limestone $14 \times 14 \times 3$ ins 10 ins
 in the ground for cor to Seco 13, 18, 19
 & 24 marked with 3 notches on

Exterior Boundary T. 15 N. R. 14 E.

Chains

N and S edges and raised a mound
of stones $1\frac{1}{2}$ ft high 2 ft base along side
Pits impracticable.

No bearing trees within limits.

Land rolling.

Soil 2^d rate

Timber scattering pine and cedar 80 to

North bet Secs 13 & 18

Va. $13^{\circ}54'E$

Over rolling ground.

40.00 Set a limestone $16 \times 14 \times 3$ ins 11 ins
in the ground for $\frac{1}{4}$ Sec cor. marked
 $\frac{1}{4}$ on N. face and raised a mound
of stones $1\frac{1}{2}$ ft high 2 ft base along
side. Pits impracticable.

No bearing trees within limits.

80.00 Set a limestone $16 \times 12 \times 4$ ins 11 ins
in the ground for cor to Secs 7. 12. 13

Exterior Boundaries T. 5 N. R. 14 E
 Chains.

and 18 marked with 2 notches on N. and 4 notches on S. edges and raised a mound of stone $1\frac{1}{2}$ ft high 2 ft base alongside. Opts impracticable.

No bearing trees within limits.

Land rolling.

Soil 2^d and 3^d rate

Timber, scattering pine and cedar 8000.

North bet Secs 7 & 12

Pa. $13^{\circ} 54' E$

Over rolling ground.

40.00 Set a limestone $15 \times 7 \times 5$ 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 $1\frac{1}{2}$ ft high 2 ft base alongside. Opts impracticable.

Exterior Boundaries T. 15 N. R. 14 E.

Chain's

80.00 Let a limestone 15 x 12 x 12 ft or 10 in
in the ground for cor to Secs 1, 6, 7 & 12,
marked with 1 notch on N and
5 notches on S edges and raised a
mound of stone 1 1/2 ft high 2 ft base
along side. Ditto impracticable.
Land rolling
Soil 2^d rate
No timber.

North bet Secs 1 & 6.

Pa. 13° 54' E

Over rolling ground.

3.50 Descend into small cañon bears N.E.

7.50 Bottom of cañon and ascend.

10.00 Top of bank

11.00 Descend into same cañon bears
N.W.

13.00 Bottom and ascend.

Esoteric's Boundary T. 15 N. R. 14 E

Chains

15.00 Edge of bank.

33.00 Small gulch bears W.

40.00 Set a limestone $14 \times 12 \times 6$ ins 10 ins
in the ground for $\frac{1}{4}$ Sec. Co. marked
 $\frac{1}{4}$ on W. face and raised a mound
of stone $1\frac{1}{2}$ ft high 2 ft base along side
Pits impracticable.

80.00 Set a limestone $12 \times 10 \times 6$ ins 8 ins
in the ground for cor to Tps 15 & 16 N.
R. 14 & 15 E. marked with the notches
on each edge and raised a mound
of stone $1\frac{1}{2}$ ft high 2 ft base along side
Pits impracticable.

Land rolling.

Soil 3^d & 4th rate

No timber

Dec 9th 1893.

At 12 M Dec 9th 1893 I took an
observation on the Sun and

North Boundary.

Exterior Boundary T. 15 N. R. 14 E.

Chain

found my instrument in perfect adjustment.

Latitude $34^{\circ}44'N.$ $\Delta. 13^{\circ}53'E$

From the cor to Tps 15 & 16 N. Rs. 14 & 15 E
hereinbefore described.

I run West on a random line
between said townships, the variation
of my compass being $13^{\circ}53'E$. I set
temporary half mile and mile corners
at each 40 chs and 80 chs and find the
township line to be 6 miles 2 chs and
95 lks long and the falling to be 32 lks
S. of the cor to Tps 15 & 16 N. Rs. 13 & 14 E.

The correction for the true line will
therefore be $5\frac{1}{3}$ lks S. and 295 chs. West
per mile and its course will be
 $S. 89^{\circ}58'E$.

North Boundary.

Exterior Boundaries T. 15 N. R. 14 E.

Chains

From the cor to Tpo 15 & 16 N.° Re.
13 & 14 E hereintofore described

I am

S. 89° 58' E on a true line bet Secs 6 & 31

Va 13° 52' E

Through timber.

42.95 Set a limestone 15 x 14 x 12 in 10 in
in the ground for $\frac{1}{4}$ Sec bar, marked
 $\frac{1}{4}$ on N. face

from which

A pinon 4 in diam bears S. 70° 30' E.
27 lbs dist. marked $\frac{1}{4}$ S. B. T.

A pinon 4 in diam bears N. 23° 15' W.
110 lbs dist. marked $\frac{1}{4}$ S. B. T.

82.95 Set a limestone 15 x 14 x 14 in 10 in
in the ground for bar to Secs 5, 6,
31 & 32 marked with 5 notches on
E and 1 notch on W. edges

from which

Exterior Boundaries T. 15 N. R. 14 E.

Plein's

A pinon 6 ins. diam bears S. 45° W. 9 lks
 dist. marked T. 15 N. R. 14 E. S. 6 B. F.

A pinon 4 ins. diam bears N. 75° W. 74 lks
 dist. marked T. 16 N. R. 14 E. S. 31 B. F.

A pinon 6 ins. diam bears N. 65° 30' E 63 lks
 dist. marked T. 16 N. R. 14 E. S. 32 B. F.

A pinon 5 ins. diam bears S. 35° E 55 lks
 dist. marked T. 15 N. R. 14 E. S. 5 B. F.

Land rolling

Soil 2^d rate

Timber, pinon and cedar 82.95 chs.
 Cleanly timbered land 82.95 chs.

S. 89° 58' E on a true line bet Secs 5 & 32
 Va 13° 52' E

Through timber.

40.00 Set a sandstone 16x12x5 ins 11 ins
 in the ground for 1/4 Sec Cor marked
 1/4 on N. face

from which

Exterior Boundaries T. 15 N. R. 14 E.
Chavis

A cedar 20 ins diam bears N. $75^{\circ}30' E$
161 lbs dist. marked $\frac{1}{4}$ S B F.

A cedar 22 ins diam bears S. $58^{\circ}30' W$.
40 lbs dist. marked $\frac{1}{4}$ S B F.

81.00 Set a sandstone $18 \times 14 \times 8$ ins 12 ins
in the ground for cor to Secs 4. 5. 32
& 33. marked with 4 notches on E.
and 2 notches on W. edges

from which

A pinon 8 ins diam bears N. $64^{\circ} E$.
50 lbs dist marked T. 16 N. R. 14 E. S. 33 B F.

A pinon 6 ins diam bears S. $67^{\circ} E$ 127 lbs
dist. marked T. 15 N. R. 14 E. S. 4 B F.

A pinon 7 ins diam bears N. $31^{\circ} W$ 28 lbs
dist. marked T. 16 N. R. 14 E. S. 32 B F.

A pinon 12 ins diam bears S. $42^{\circ} W$.
144 lbs dist marked T. 15 N. R. 14 E. S. 5 B F.

Land rolling

Exterior Boundaries T. 15 N. R. 14 E.

Pharos

Soil 2^d and 3^d rates

Timber, pinon and cedar 80 chs.

Heavily timbered land 80 chs

S89°58' E on a true line bet Sec 4 & 33

Pa. 13°52' E

Over rolling ground.

40.00 Set a sandstone 15 X 10 X 6 ins 10 ins
in the ground for $\frac{1}{4}$ Sec Cor. marked
 $\frac{1}{4}$ on N. face and raised a mound
of stone $1\frac{1}{2}$ ft high 2 ft base along side
It is impracticable.

No bearing trees within limits.

71.40 Enter timber.

72.15 Road course N^o W.

80.00 Set a sandstone 18 X 12 X 3 ins 12 ins
in the ground for cor to Sec 3. 4.

33 & 34 marked with 3 notches on
E and W. edges

from which

Exterior Boundaries T. 15 N. R. 14 E
 Chains.

A cedar 10 ins diam bears S. $31\frac{1}{2}^{\circ}$ E 198 lbs
 dist. marked T. 15 N. R. 14 E. S. 3 B.T.

A cedar 12 ins diam bears S 16° W. 31

lbs dist. marked T. 15 N. R. 14 E. S. 4 B.T.
 A cedar 8 ins diam bears 78° $3\frac{1}{4}$ 20° 12 lbs dist
 marked S. 116° W. R. 14° E. S. 3° B.T.
 No other bearing till to this limits.

Land rolling.

Soil 1st and 2^d rate

Timber, pine and cedar 8.60 chs.
 Heavy timbered 8.60 chs

S 89° 58' E on a true line bet Secs 38, 34

Pa. 13° 53' E

Over rolling ground.

1.35 Trail course N W.

40.00 Set a sandstone $16 \times 11 \times 3$ ins 11 ins
 in the ground for $\frac{1}{4}$ Sec. marked
 $\frac{1}{4}$ on N. face; dug pits $18 \times 18 \times 12$ ins
 E & 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 along side.

A cedar 5 ins diam bears S. E
 187 lbs dist marked $\frac{1}{4}$ S. B.T.

Exterior Boundaries T. 15 N. R. 14 E.

Chain

No tree within limits.

60.70 Cross trail corner NW.

80.00 Set a sandstone $15 \times 12 \times 6$ ins 10 ins
in the ground for cor to Secs 2, 3, 34
& 35 with 2 notches on E and 4 notches
on W. edges, dug pits $18 \times 18 \times 12$ ins in
each sec. $5\frac{1}{2}$ ft diam. and raised a
mound of earth $4\frac{1}{2}$ ft high
along edge

from which

A cedar 20 ins diam bears $N 89^{\circ} E$ 173 lks
dist marked T. 16 N. R. 14 E S. 35 B. F.

A cedar 15 ins diam bears $S. 20^{\circ} W.$ 110 lks
dist marked T. 15 N. R. 14 E S. 3 B. F.

A pinon 12 ins diam $S 74^{\circ} E$ 283 lks dist
marked T. 15 N. R. 14 E S. 3 B. F.
No other trees within limits.

Land rolling

Soil 1st & 2^d rate

Timber, scattering cedar & pinon woods

Eastern Promontory T. 15 N. R. 14 E.
 Chain

S 89° 58' E on a true line bet Secs 2 & 35
 Va. 13° 53' E

Over rolling ground.

- 40:00 Set a sandstone 16 x 12 x 8 ins 11 ins in
 the ground for $\frac{1}{4}$ Sec Cor. marked $\frac{1}{4}$
 on N. face from which
 a Cedar 14 ins diam bears S 19° E
 214 lbs dist marked $\frac{1}{4}$ S. B. T.
 a Pinus 8 ins diam bears 72° E
 312 lbs dist marked $\frac{1}{4}$ S. B. T.
- 80:00 Set a sandstone 16 x 8 x 5 ins 8 ins in
 the ground for cor to Secs 1, 2, 35 &
 36 marked with 1 notch on E and
 5 notches on N. edges, dug pits 18
 x 18 x 12 ins in each Sec 5 $\frac{1}{2}$ ft dist
 and raised a mound of earth 2 ft
 high 4 $\frac{1}{2}$ ft base along side.
 Land rolling
 Soil 1st and 2^d rate
 No timber.

Exterior of S. 15 N. R. 14 E.
Latitudes, departures, and closing error.

Line designated as	Bearing	Distance	Latitudes N.	Latitudes S.	Departures E.	Departures W.
N. boundary	North	480	480			
N. boundary	S89°58'E	482.95		.32	482.95	
E. boundary	South	480		480.00		
S. boundary	N89°53'W		1.03			485.00
Closing error					50	
Totals			481.03 480.32	480.32	483.45	485.00 483.45

Error in lat. = .71 Error in departure = .55

BOOK 1321

Western Boundaries T. 15 N. R. 14 E.

189° 58' E on a true line bet Secs 1 & 36
 Va. 13° 53' E

Over rolling ground.

1.00 Set a limestone 20 x 6 x 5 ins 15 ins
 in the ground for $\frac{1}{4}$ Sec cor. marked
 $\frac{1}{4}$ on N. face dug pits 18 x 18 x 12 ins
 E & W. of stone 5 $\frac{1}{2}$ ft diam. and raised
 a mound of earth 1 $\frac{1}{2}$ ft high 3 $\frac{1}{2}$ ft
 base along side

2.00 Cross trail course N W.

3.00 Mouth of small canon course N W.

4.00 The cor. to Tps 15 & 16 N. Ro. 14 & 15
 E. hereinbefore described.

Land, rolling and level.

Soil, 2^d and 3^d rates

No timber.

Dec 10th 1893

Exterior Boundary T. 15 N. R. 15 E

Chain

From the cor to Tps 14 & 15 N. R. 15
& 16 E hereinafter described.

1 run.

North bet Secs 31 & 36

Pa. $13^{\circ} 50' E$

Through scattering timber

- 10-80 Descend into gulch course N. N. W.
- 17-80 Bottom of gulch and ascend
- 23-80 Top of bank of gulch
- 24-77 Descend into gulch course N. N. W.
- 28-79 Bottom of gulch and ascend.
- 32-76 Bank of gulch
- 40-00 Set a limestone $15 \times 14 \times 12$ 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 $1\frac{1}{2}$ ft high 2 ft base along side
Pits impracticable. Four sticks
A pinions 3 ins diam bears N. $30^{\circ} E$ 140 lbs
dial marked $\frac{1}{4}$ S. B. T.

Exterior Boundaries T. 15 N. R. 15 E.

- Chain
A pinon 7 ins diam bears S 30° W. 114 lks
dirt marked $\frac{1}{4}$ S.B.T.
- 42.40 Leave timber
- 80.00 Set a limestone 22 x 10 x 4 ins 17 ins
in the ground for cor to Sec 25, 30, 31 & 36.
marked with 5 notches on N. and 1 notch
on S. edges, dug pits 18 x 18 x 12 ins in
each Sec $5\frac{1}{2}$ ft diam. and raised a mound
of earth 2 ft high $4\frac{1}{2}$ ft base along side.
Land rough and rolling.
Soil 2^d and 3^d rate
Timber cedar and pinon 42.40 chs.
Heavily timbered 42.40 chs

North bet Secs 25 & 30

B. 13° 49' E

Over level ground.

- 40.00 Set a limestone 15 x 10 x 4 ins 10 ins
in the ground for $\frac{1}{4}$ Sec Cor. marked
 $\frac{1}{4}$ on W. face and raised a mound

Eastern Boundary T. 15 N. R. 15 E

of stone $1\frac{1}{2}$ ft high 2 ft base along side

80.00 Pits impracticable

Set a limestone $15 \times 16 \times 4$ ins 10 ins in
the ground for cor to Secs 19, 24, 25 & 30
marked with 4 notches on N and 2
notches on S. edges dug pits $18 \times 18 \times 12$
ins in each Sec $5\frac{1}{2}$ ft diam. and raised
a mound of earth 2 ft high $4\frac{1}{2}$ ft
base along side

Land level

Soil 2^d rate

Timber none

North bet Secs 19 & 24

Na. $13^{\circ} 45' E$

40.00 Over gently rolling ground.

Set a limestone $20 \times 17 \times 8$ ins 15 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

Exterior Boundary T. 15 N. R. 15 E.

N. & S. of stone $5\frac{1}{2}$ ft diam. and raised
a mound of earth $1\frac{1}{2}$ ft high $3\frac{1}{2}$ ft
base alongside.

80.00 Set a limestone $15 \times 8 \times 5$ ins. 10 ins in
the ground for Cor to Secs 13, 18, 19 & 24
marked with 3 notches on N & S. edges
and raised a mound of stone $1\frac{1}{2}$ ft
high 2 ft base alongside. Pits in compact
cable. From which

A cedar 16 ins diam bears N. $7^{\circ} 30' E$ 168 lbs
diam marked T. 15 N. R. 16 E S. 18 B.F.

No other trees within limits.

Land gently rolling

Soil 1st and 2^d rate

Timber, a few cedars.

North bet Secs 13 & 18

N. $19^{\circ} 42' E$

Open rolling ground.

Exterior Boundaries T. 15 N. R. 15 E

Chain

40.00 Set a limestone $15 \times 8 \times 6$ ins 10 ins in the ground for $\frac{1}{4}$ Sec Cor. marked $\frac{1}{4}$ on W. face dug pits $18 \times 18 \times 12$ ins N & 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 limestone $15 \times 10 \times 4$ ins 10 ins in the ground for Cor to Secs 7. 12. 13 & 18 marked with 2 notches on N and 4 notches on S. edges dug pits $18 \times 18 \times 12$ ins in each Sec $5\frac{1}{2}$ ft dist and raised a mound of earth 2 ft high $4\frac{1}{2}$ ft base alongside.

Land rolling

Soil 1st and 2^d rate

No timber

Exterior Boundaries T. 15 N. R. 15 E.

Chain

North bet Secs 7 & 12

Ba. $13^{\circ}40'E$

Over rolling ground.

40.00 Set a limestone $18 \times 12 \times 3$ ins 12 ins in the ground for $\frac{1}{4}$ Sec cor. marked $\frac{1}{4}$ cor. Fr. face dug pits $18 \times 18 \times 12$ ins N & S of stone $5\frac{1}{2}$ ft dia and raised a mound of earth $1\frac{1}{2}$ ft high $3\frac{1}{2}$ ft base along side.

48.00 Fence runs E & W.

80.00 Set a limestone $20 \times 12 \times 4$ ins 15 ins in the ground for cor to Secs 1, 6, 7 and 12 marked with 1 notch on N and 5 notches on S edges, dug pits $18 \times 18 \times 12$ ins in each Sec $5\frac{1}{2}$ ft dia and raised a mound of earth 2 ft high $4\frac{1}{2}$ ft base along side.

Land rolling

Soil 2^d rate

Eastern Boundaries T. 15 N. R. 15 E

Charris

Timber, none.

North bet Secs 1 & 6

Pa. $13^{\circ} 31' E$

Over rolling ground.

- 3.00 Edge of ^{Abundant} cañon course E. S. E
- 18.00 Opposite bank of cañon
- 22.30 Cross road course E & W.
- 40.00 A limestone boulder in place which I mark with x at exact cor point and $\frac{1}{4}$ on W. face for $\frac{1}{4}$ Sec Cor. and raised a mound of stone $1\frac{1}{2}$ ft high 2 ft base alongside Pitts impracticable
- 76.55 Cross road course N. E.
- 81.00 Set a limestone $24 \times 5 \times 5$ in 18 in in the ground for cor to Tps 15 & 16 N. R. 15 & 16 E. marked with 6 notches on each edge and raised a mound of stone $1\frac{1}{2}$ ft high 2 ft

Exterior Boundary T. 15 N. R. 15 E

Chain

has elongated. Pits impracticable.

From which

A cedar 20 mis. diam bears S. 45° E 85 1/2

dist. marked T. 15 S. R. 16 E S. 6 1/2 T.

No other trees within limits.

Land rolling.

Soil 2^d rate

Timber a few cedars.

Dec 22^d 1893

At 12 M. Dec 22^d 1893 I took an observation on the Sun and find my instrument in perfect adjustment
Latitude 37° 44' N. Va. 13° 29' E

From the cor to Tps 15 & 16 N. Rs. 15 & 16 E hereinbefore described I run West on a random line between said townships the variation of my compass being 13° 30' E. I set temporary half

Exterior Boundaries T15 N. R15 E

Ghams

mile and mile corners at each 40 chs and 80 chs and find the township line to be 6 miles 5 chs long and the following to be 15th Mo S. of the cor to Tps 15 & 16 N. R. 14 & 15 E. The correction for the true course will therefore be 2 $\frac{1}{2}$ lks S. and 5 chs West per mile and the true course will be S. 89° 59' E.

From the cor to Tps 15 & 16 N. R. 14 & 15 E
has been before described

From

S 89° 59' E on a true line bet Secs 6 & 31

On 13° 30' E.

Over rolling ground.

45-00 Set a limestone 15x10x6 ins 10 ins in the ground for $\frac{1}{4}$ Sec Cor. marked $\frac{1}{4}$ on N. face dug pits 18x18x12 ins E & W. of stone 5 $\frac{1}{2}$ ft diam. and raised a mound of earth 1 $\frac{1}{2}$ ft high 3 $\frac{1}{2}$ ft

Exterior Boundaries T. 15 N. R. 15 E.

Chambers

line alongside:

85.00 Set a limestone $15 \times 14 \times 4$ ins 10 ins in the ground for cor to Secs 5, 6, 31 & 32 marked with 5 notches on 6 and 1 notch on W. edges dry pits $18 \times 18 \times 12$ ins in each sec $5\frac{1}{2}$ ft diam and raised a mound of earth 2 ft high $4\frac{1}{2}$ ft base alongside.

Land, rolling.

Soil 2^d rate

No timber.

S. 89° 59' E on a true line bet Secs 5 & 32

N. 13° 20' E.

Over rolling ground.

40.00 Set a limestone $16 \times 8 \times 4$ ins 10 ins in the ground for $\frac{1}{4}$ Sec Cor. marked $\frac{1}{4}$ on N. face; dry pits $18 \times 18 \times 12$ ins E & W. of stone $5\frac{1}{2}$ ft diam and raised a

Exterior Boundaries T. 15 N. R. 15 E.

Chain

mound of earth $1\frac{1}{2}$ ft high $3\frac{1}{2}$ ft base
along side.

- 80.00 Set a limestone $16 \times 12 \times 3$ ins 11 ins in
the ground for box to Secs 4, 5, 32 & 33
marked with 4 notches on E and 2
notches on N. Wedges, and raised a
mound of stone $1\frac{1}{2}$ ft high 2 ft base
along side. Pits impracticable.
Land rolling.
Soil 2^d and 3^d rates
Timber none.

S. 89° 57' E on a true line bet Secs 4 & 33.

N. 13° 16' E.

Over rolling ground.

- 40.00 Set a limestone $18 \times 8 \times 6$ ins 12 ins in
the ground for $\frac{1}{4}$ Sec Box. marked $\frac{1}{4}$
on N. face and raised a mound
of stone $1\frac{1}{2}$ ft high 2 ft base along side

Exterior Boundaries T. 15 N. R. 15 E.

Chain

Pito impracticable

80.00 Set a limestone $17 \times 8 \times 5$ ins 12 ins in the ground for cor to Secs 3, 4, 33 & 34 marked with 3 notches on E and W face and raised a mound of stone $1\frac{1}{2}$ ft high 2 ft base alongside Pito impracticable
Land rolling.

Soil 2^d rate

Timber none.

S. $89^{\circ} 59' 6''$ on a true line bet Secs 3 & 34Va. $13^{\circ} 13' 6''$.

Over rolling ground.

40.00 Set a limestone $16 \times 8 \times 4$ ins 11 ins in the ground for $\frac{1}{4}$ Sec Cor. marked $\frac{1}{4}$ on N. face, dug pits $18 \times 18 \times 12$ ins E & W. of stone $5\frac{1}{2}$ ft diam. and raised a mound of earth $1\frac{1}{2}$ ft high 2 ft base alongside.

Exterior Boundaries T. 15 N. R. 15 E

Chains

- 80.00 Set a limestone 18 X 8 X 4 ins 12 ins in
the ground for box to Secs 2, 3, 34 & 35
marked with 2 notches on E and 4
notches on W. edges and raised a
mound of stone 1 1/2 ft high 3 1/2 ft
base, along side. Pits impracticable.
Land rolling.
Soil 2^d rate
Timber, none.

S. 89° 59' E on a true line bet Secs 2 & 35
Va. 13° 10' E.

Over level ground.

36.50 Cross road corner N E.

- 40.00 Set a limestone 15 X 10 X 4 ins 10 ins
in the ground for 1/4 Sec Cor. marked
1/4 on N. face, dug pits 18 X 18 X 12 ins
E & W. of stone 5 1/2 ft dia and raised
a mound of earth 1 1/2 ft high 3 1/2 ft

Exterior Boundaries T. 15 N. R. 15 E.

Chains

bar alongside.

80.00 Set a benchmark 18 x 10 x 5 ins 12 ins in
the ground for Cor to Secs 1, 2, 3, 5 & 36
marked with 1 notch on E and 5
notches on W. edges, dug pits 18 x 18
x 12 ins in each sec 5 1/2 ft dia and
raised a mound of earth 2 ft high
4 1/2 ft bar alongside.

Land level.

Soil 2^d and 3^d cat.

Timber none.

S. 89° 59' 6" on a true line bet Secs 1 & 36

Va 13° 10' 6".

Over level ground.

40.00 Set a benchmark 30 x 5 x 4 ins 2.3 ins
in the ground for 1/4 Sec Cor. marked
1/4 on N. face dug pits 18 x 18 x 12 ins

Exterior Boundaries T. 15 N. R. 15 E.

Chains

E & W. of stone $5\frac{1}{2}$ ft diam and raised
a mound of earth $1\frac{1}{2}$ ft high $3\frac{1}{2}$ ft
base along side.

78.90

Goes Rodd, hrs N.W.

80.00

The cr to Tps 15 & 16 N. R. 15 & 16 E.

here is before described.

Land level

Soil 2^d and 3^d rate

Timber none.

Dec 23^d 1893.

Series of S. 15 N. R. 15 E.
 Latitudes, departures, and closing errors

copy

Line designated	True bearing	Distance	Latitudes N. S.	Departures E. W.
N. boundary	North	480.00	480.00	
N. boundary	S 90° 00' E	485.00	.15	485.00
E. boundary	South	480.00	480.00	
S. boundary	N 90° 00' W	485.50	.16	485.50
Convergence				.50
Totals			480.16	485.50
			480.15	485.50
Error in lat.			.01	Error in dep. 00

Exterior Boundaries T. 16 N. R. 14 E.

Chain

From the cor to Tps 15 & 16 N. Rs 14
& 15 E. hereinafter described & run
North let Secs 31 & 36
Pa. $13^{\circ}53'E$

Over rolling ground.

- 40.00 Let a limestone $18 \times 16 \times 12$ ins 12 ins
in the ground for $\frac{1}{4}$ Sec cor. marked
 $\frac{1}{4}$ on W. face and raised a mound
of stones $1\frac{1}{2}$ ft high 2 ft base along side
Pits impracticable.
- 52.00 Descend into draw bears N N W.
- 54.00 Trail course N. W $\frac{3}{4}$ S. E.
- 54.50 Bottom of draw.
- 55.00 Ascend.
- 57.00 Opposite edge of draw
- 58.00 Let a limestone $16 \times 10 \times 4$ ins 11 ins in
the ground for cor to Secs 25. 30. 31 & 36
marked with 5 notches on N. and 1 notch
on S. edges and raised a mound of
stone $1\frac{1}{2}$ ft high 2 ft base along side

Exterior Boundaries T. 16N. R. 14E.

Chains,

Pits impracticable.

Land rolling.

Soil 3^d rate

Timber, none.

North bet Secs 25 & 30

Pa. $13^{\circ}53'E$

Over rolling ground.

40.00 Set a limestone $12 \times 8 \times 6$ ins 8 ins in the ground for $\frac{1}{4}$ Sec Cor. marked $\frac{1}{4}$ on W. face dug into $18 \times 18 \times 12$ ins N & 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.

48.00 Trail corner N 9th.

80.00 Set a limestone $15 \times 12 \times 4$ ins 10 ins in the ground for Cor to Secs 19, 24, 25 & 30. marked with 4 notches on N. and 2 notches on S. edges and raised a

Exterior Boundary T. 16 N. R. 14 E.

4000

mound of stone $1\frac{1}{2}$ ft high 2 ft base
alongside. Pits impracticable.

Land rolling

Soil 3^d rate

Timber, none.

North bet. Secs 19 & 24

Ta. $13^{\circ}53'$ E.

Even rolling ground.

4000

Set a limestone $15 \times 12 \times 3$ 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 $1\frac{1}{2}$ ft high 2 ft base alongside
Pits impracticable.

80.00

Set a limestone $16 \times 10 \times 4$ ins 11 ins in
the ground for Cor to Secs 13, 18, 19 & 24
marked with 3 matches on N & S. faces
dig pits $18 \times 18 \times 12$ ins in each sec $5\frac{1}{2}$ ft

Exterior Boundaries T. 16. N. R. 14 E.

Chains

dist. and raised a mound of earth
2 ft high 4½ ft base along side.

Land calling

Soil 2^d rate

Timber, none.

North bet Secs 13 & 18

Ok. 13° 53' E

Proc rolling ground

40.00 Set a limestone 17 x 10 x 4 ins 12 ins
in the ground for ¼ Sec Cor. marked
¼ on N. face and raised a mound
of stone 1½ ft high 2 ft base along side.

80.00 Set a limestone 20 x 10 x 3 ins 15 ins
in the ground for cor to Secs 7, 12, 13
& 18 marked with 2 notches on N end
& 4 notches on S edges and raised a
mound of stone 1½ ft high 2 ft base

Exterior Boundaries T. 16. N. R. 14 E.

chains

alongside. Pits impracticable.

Land rolling

Soil 2^d rate

Timber none.

North bet Secs 7 & 12.

Pa. $13^{\circ}53'E$

Over broken ground

40.00 Set a limestone $20 \times 12 \times 4$ ins 15 ins
in the ground for $\frac{1}{4}$ Sec Cor. marked
 $\frac{1}{4}$ on W. face and raised a mound
of stone $1\frac{1}{2}$ ft high 2 ft base alongside
Pits impracticable.

43.50 Edge of Clear Creek bet E & W.

From this point Clear Creek changes
its course and the precipitous banks
make it nearly impassable. I therefore
send a flag across to the nearest point

External Boundaries T. 16 N. R. 14 E
chains

accessible on line. I now run a
base line 7 chs East to a point from
which the flag bears N. $32^{\circ}50'W$. which
gives for distance across to flag, tang.

$$\begin{array}{r} \times \text{ base or } \log \cotang = 10.18997 \\ \log \text{ base} = 0.84510 \\ \hline 1.03507 = 10.84 \text{ chs} \end{array}$$

across, making the whole distance
73.50 + 10.84 chs or

84.34 To North bank of Clear Creek. The
Corner being in Canon at a point
4.34 chs S. $0^{\circ}1'E$ and inaccessible
I mark a limestone boulder in
place $3\frac{1}{2} \times 2$ ft and 2 ins above ground
with X at exact corner point for
Witness Cor. to Sec Cor. marked W.C.
on S. face with 1 notch on N and
5 notches on S. edges and raised

Exterior Boundary T. 16 N. R. 14 E.

Chain
 a mound of stone $1\frac{1}{2}$ ft high 2 ft base
 along side. Pits impracticable.
 Land rough and broken
 Soil 3^d & 4th rate
 Timber none.

North hit Sec 1 & 6.

Pa. $13^{\circ}53'E$

Over rolling ground.

4.34 Leave Clear Creek Cañon

46.00 Hit a limestone $15 \times 12 \times 4$ in 10 in in
 the ground for $\frac{1}{4}$ sec cor. marked
 $\frac{1}{4}$ on W. face and raised a mound
 of stone $1\frac{1}{2}$ ft high 2 ft base along side
 Pits impracticable

38.85 Intersect the Fourth Standard Parallel
 8.22 chs West of the Stand. cor. to T. 17
 N. Rs. 14 & 15 E where I set a line

Exterior Boundaries T. 16 N. R. 14 E.

Chas. no.

stone 18 x 16 x 3 ins 12 ins in the ground
for closing bar to Tps 16 N. Rs 14 E
15 E marked C. C. with 6 notches
on S. E & W faces and raised a
mound of stone 1 1/2 ft high 2 ft
base along side. Pits impracticable.
Land rolling and broken
Soil 3^d & 4th rate

No timber.

Jan 7th 1894

errors of 0.10 N. A. 176

Latitudes, departures, and closing errors

cap

~~178 1/2~~
178 A

Lines designated	True bearing	Distance	N.	S.	E.	W.
N. boundary	North	539.40	539.40			
N. boundary	N 85° 58' E	7.10	.50		7.10	
N. boundary	East	475.91			475.91	
E. boundary	South			638.85		
S. boundary	N 89° 58' W	482.95	.32			482.95
Convergence						
Totals			540.22 538.85	638.85	483.51 482.95	482.95

Error in latitude 1.37 Error in dep. .56

East Boundary.

Exterior Boundaries T. 16 N. R. 15 E.

At 12 M. Jan 8th 1894 I take an
 observation on the Sun and find
 my instrument in perfect adjustment
 Latitude $34^{\circ}50'N.$ $\text{Va. } 13^{\circ}10'E$

From the cor to Tps 15 & 16 N. R. 15 & 16
 E. hereinafore described. I run
 North bet Secs 31 & 36.

$\text{Va. } 13^{\circ}10'E$

Over changing ground.

49.00 Set a limestone $20 \times 14 \times 3$ 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 $1\frac{1}{2}$ ft high 2 ft base along side
 Pits impracticable.

80.00 Set a limestone $15 \times 12 \times 6$ ins. 10 ins
 in the ground for cor to secs 25-30
 31 & 36 marked with 5 notches on N

Exterior Boundaries T. 16 N. R. 15 E.

Shams

and 1 notch on S. edges, dug pits 18 x 18
x 12 ins in each Sec. 5 1/2 ft dist and
and raised a mound of earth 2 ft
high 4 1/2 ft base, alongside.

Land level and rolling.

Soil 4th rate

Timber, none.

North bet Secs 25 & 30

W 13° 12' E

Over rolling ground.

40.00 Set a limestone 14 x 12 x 6 ins 10 ins
in the ground for 1/4 Sec Co marked
1/4 on N. face, and raised a mound
of stone 1 1/2 ft high 2 ft base, along
side. Pits impracticable.

44.67. Crossroad bears E & W.

70.00 Enter scattering timber.

Exterior Boundaries T. 16 N. R. 15 E.

Chains

80.00 Set a limestone $18 \times 10 \times 6$ ins 12 ins in
the ground for cor to Secs 19, 24, 25 & 30
marked with 4 notches on N and 2 notches
on S. edges and raised a mound
of stone $1\frac{1}{2}$ ft high 2 ft base along side
Rte. impracticable.

No bearing trees within limits.

Land rolling

Soil 4th rate

Scattering cedar and pine 10 chs.

North lot Secs 19 & 24

Ba $130^{\circ} 12' E$

Over rolling ground

35.00 Leave timber

40.00 Set a limestone $15 \times 12 \times 4$ ins 10 ins in
the ground for $\frac{1}{4}$ Sec Cor. marked $\frac{1}{4}$
in W. face and raised a mound of

Exterior Boundaries T. 16 N. R. 15 E.

Chains

- stone $1\frac{1}{2}$ ft high 2 ft base along side
Pits impracticable.
- 44.60 Cross road bears N^o.
- 80.00 Set a limestone $20 \times 12 \times 8$ ins 15 ins
in the ground for cor to Secs 13 & 18. 19
& 24 marked with 3 notches on N
& S faces and raised a mound
of stone $1\frac{1}{2}$ ft high 2 ft base along side.
Pits impracticable.
Land rolling.
Soil 4th rate
Timber, scattering cedar 35 chs.

North bet Secs 13 & 18

Pa. $13^{\circ} 12' E$

Over open country.

- 40.00 Set a limestone $15 \times 8 \times 6$ ins 10 ins
in the ground for $\frac{1}{4}$ Sec cor. marked

Exterior Boundaries T. 16 N. R. 15 E.

Chain.

14 on N face and raised a mound
of stone $1\frac{1}{2}$ ft high 2 ft base along side
Pits impracticable

80.00 Set a limestone $14 \times 12 \times 4$ ins 10 ins in
the ground for Cor to Secs 7, 12, 13 & 18
marked with 2 notches on N and 4
notches on S. 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 along side
Land level and rolling.

Soil 1st and 2^d rate

Timber, none.

North bet Secs 7 & 12.

Ta. $13^{\circ} 12' E$

Over level ground

40.00 Set a limestone $18 \times 8 \times 5$ ins 12 ins in the

Exterior Boundaries T. 16 N. R. 15 E

Chain

ground for $\frac{1}{4}$ Sec box marked $\frac{1}{4}$ on
N. face and raised a mound of
stone $1\frac{1}{2}$ ft high 2 ft base alongside
Pits impracticable.

80.00 Set a limestone $16 \times 14 \times 12$ ins // ins
in the ground for box to Secs 1, 6, 7 & 12
marked with 1 notch on N and 5 notches
on S. edges and raised a mound of
stone $1\frac{1}{2}$ ft high 2 ft base alongside
Pits impracticable.
Land level.

Soil 2^d & 3^d rate
Timber none.

North bet Secs 1 & 6.

Pa. $13^{\circ} 12' E$.

Over level ground.

40.00 A limestone in place 16×14 and

Exterior Boundaries T. 16 N. R. 15 E.

3 ins above ground which I mark with
 x at exact cor. point and $\frac{1}{4}$ on W.
 face for $\frac{1}{4}$ Sec cor. and raised a
 mound of stone $1\frac{1}{2}$ ft high 2 ft base
 along side. Pits impracticable.

39.00 Intersect the Fourth Standard parallel
 North 12.34 chs West of the Standard cor
 to Tps 17 N. Rs 15 & 16 E where I set
 a limestone $19 \times 12 \times 4$ ins. 15 ins in
 the ground for closing cor to Tps 16 N
 Rs 15 & 16 E marked C.C. with 6 notches
 on S. E & W. faces and raised a mound
 of stones $1\frac{1}{2}$ ft high 2 ft base along side
 Pits impracticable.

Land level

Soil 2^d & 3^d rate

Timber none.

Jan 8th 1894.

Philip Cortese
 U. S. Dep. Sur.

Extremes of S. 16 N. R. 15 E
 Latitudes, Departures, and closing errors

Line designated as	True bearing	Distance	Latitudes		Departures	
			N.	S.	E.	W.
N. boundary	North	538.85	538.85			
N. boundary	East	485.17			485.17	
E. boundary	South	539.00		539.00		
S. boundary	N 89° 59' W	485.00	.15			485.00
Convergence						.50
Totals			539.00	539.00	485.67	485.00
			539.00		485.00	

Error in lat. .00 Error in dep. .67

For final latitudes see book No 40

U. S. Surveyor-General's Office,

TUCSON, A. T., August 9, 1895-

The foregoing Field Notes of the Surveys of
Exterior Lines of Town-
ships 13, 14, 15 and 16 North
Ranges 14 and 15 East
of the Gila and Salt River Meridian
in Arizona executed by
Philip Contzen
U. S. Deputy Surveyor, under his contract dated
February 10th 1893.
having been critically examined, the necessary correc-
tions and explanations made, the said Field Notes and
the surveys they describe are hereby approved.

L. W. Manning
U. S. Surveyor-General
for the Territory of Arizona.