

I

subdivisions

→ of

BOOK 1138

Tp. 30 N R. 2 W

Fractional

SECOR.

4-671

BOOK 1138

1138

FIELD NOTES

GENERAL LAND OFFICE.

BOOK 1138

No. 1138

BOOK 1138

No. 1138

BOOK 1138

BOOK 1138

Field Notes

of the survey of the
Subdivision Lines

of
Township N^o 30 N. R. 2. W

of the

Gila and Salt River Base and Meridian

in the

Territory of Arizona

as surveyed by

W. Oscar Scott

U.S. Deputy Surveyor

Under his Contract N^o 77

Dated August 29 1900

Survey Commenced Nov. 16-1900

Survey Completed Nov. 28 1900

Names and Offices of Assistants

A. G. Johnson - - - - Chairman
 G. J. Salmon - - - - Chairman
 E. B. Murray - - - - Ax-man
 T. A. Gauder - - - - Ax-man

Township **30 N.** Range **2 W.**
 Index for **BOOK 1138** County, _____
BOOK 1139

NORTH

WEST

EAST

| | | | | | |
|----|----|----|-----|----|----|
| 6 | 5 | 4 | 3 | 2 | 1 |
| 74 | 78 | 55 | 115 | 30 | 15 |
| 7 | 8 | 9 | 10 | 11 | 12 |
| 72 | 53 | 52 | 43 | 27 | 13 |
| 18 | 17 | 16 | 15 | 14 | 13 |
| 69 | 68 | 49 | 44 | 25 | 11 |
| 19 | 20 | 21 | 22 | 23 | 24 |
| 66 | 65 | 39 | 38 | 23 | 9 |
| 30 | 29 | 28 | 27 | 26 | 25 |
| 59 | 58 | 36 | 35 | 20 | 7 |
| 31 | 32 | 33 | 34 | 35 | 36 |

SOUTH

T.P. 30. N. R. 2. W.

In order to test the adjustments of the solar apparatus, by comparing the results of observations on the sun with a true meridian, determined by observations on Polaris when at elongation I proceed to the cor. to see's 2. 3. 34 and 35 on the S. side. T.P. 30. N. R. 1. W. when I had obtained a true meridian by an observation on Polaris on the night of Sept 3rd when at its greatest eastern elongation.

Nov. 16. at 4^h 00^m P.M. l.m.t. I set off 18° 46' 5" on the decl. arc; 35° 55' N on the lat. arc and mark the true meridian thus determined by a cross on the stone already set; this mark falls 0.4 ins. east of the true meridian established by the Polaris observation; therefore I conclude that the adjustments of the instrument are satisfactory, I then proceed to the cor. to T.P.s 29 and 30. N. R.s 1 and 2 W.

Nov 16-1900

Nov. 17, at 8^h 00^m a.m. l.m.t. I set off 18.55
 S, on the dial, arc: 35.55' N on the lat. arc.
 and determine a true meridian with the solar
 at the cor, to $\text{Tris } 29 \text{ and } 30. \text{ N. R. } 1 \text{ and } 2 \text{ W}$
 Thence I run

N. along the S. bdy of sec 36, and at
 39.95^{dis.} the $\frac{1}{4}$ Sec. cor, bears S. 5. lbs and at
 29.94^{dis.} the cor, to sec's 1, 2, 35 and 36 bears
 S. 10 lbs; therefore I conclude the course
 of the S. bdy. $\text{Tr. } 30 \text{ N. R. } 2 \text{ W}$ to be
 N. 89° 56' E

From the cor to sec's 1, 2, 35 and 36
 on the S. bdy: which is a lime
 stone 12 x 10 x 6 in, above ground
 with $\frac{1}{2}$ of stone. N. of Cor I run

N. 0° 01' W. bet. sec's 35 and 36

Over rolling ground, ascending
 through dense undergrowth

5-00 Foot of bluff ascend abruptly

10.00 Top of bluff bears E and W

39.80 Road bears S. E and N. W.

40.00 Set a lime stone $22 \times 8 \times 6$ in 15 in
in ground for $\frac{1}{4}$ sec. Cor. marked
 $\frac{1}{4}$ on W. face. dug pit $18 \times 18 \times 12$ in
N. and S. of stone 3 ft dist and mixed
a. Md. of earth $3\frac{1}{2}$ ft base $1\frac{1}{2}$ ft high
W. of Cor.

80.00 Set a lime stone $24 \times 16 \times 8$ in 16
in in ground for cor to sees 25, 26, 35th & 36
Marked with one notch on S. and 1
notch on E edges. dug pit $18 \times 18 \times 12$ in
in each see $5\frac{1}{2}$ ft dist. and mixed
a. Md. of earth 4 ft base 2 ft high W. of Cor.
Land rough and rocky
Soil 3rd mte
Dense underygrowth 80 chs
No Timber

N. $89^{\circ}56'E$ on a random line
bet secs 25 and 36. Over rolling
land through dense undergrowth ascending

40.00 Set temp $\frac{1}{4}$ sec cor

79.84 Intersect. E. bdy. Tp. 5 lbs N of Cor to
Secs 25, 30, 31 and 36. Thence I run
S $89^{\circ}58'W$ on a true line bet Secs 25 & 36

39.92 Set a lime stone $18 \times 10 \times 5$ ins. 12 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 and W. of stone 3 ft. dia. and
raised a $\frac{1}{2}$ rd of earth $3\frac{1}{2}$ ft base $1\frac{1}{2}$ ft
high. N. of Cor.

79.84 Cor to Secs 25, 26, 35 and 36
Land rolling soil 3rd rate
Dense undergrowth 79.8^H chs.

N. $0^{\circ} 01'$ W. bet Secs 25 and 26

Over rolling land

40.00 Set a lime stone $18 \times 8 \times 6$ ins 12 ins
in the ground, for $\frac{1}{4}$ sec, cor
marked $\frac{1}{4}$ on W. face, dug pits
 $18 \times 18 \times 12$ ins N and S. of stone 3 ft
diam, and raised a $\frac{1}{2}$ of earth
 $3\frac{1}{2}$ ft base $1\frac{1}{2}$ ft high N. of cor.

80.00 Set a lime stone $24 \times 12 \times 10$ ins, 16
ins, in ground for cor. to Secs 23, 24, 25
and 26. Marked with 2 notches on
S. and 1 notch on E. edges, dug
pits $18 \times 18 \times 12$ ins, in each sec
 $5\frac{1}{2}$ ft diam, and raised a $\frac{1}{2}$ of
earth 4 ft base $2\frac{1}{2}$ ft high, N of cor
Land rolling, soil 3rd rate
No timber

N. $89^{\circ}58'E$ on a random line bet
Secs 24 and 25, over rolling ground
through scattering Cedars

40.00 Set a temp. $1/4$ sec Cor

79.80 Intersect E. side of T.P. 7 lks N of Cor to
Secs 19, 24, 25 and 30 thence S over

N. $89^{\circ}59'W$ on a true line bet Secs 24 and 25

39.90 Set a lime stone $20 \times 8 \times 6$ ins $1/4$ in, in the
ground for $1/4$ sec Cor marked $1/4$ on N
face. dug pits $18 \times 18, 12$ ins. E and W
of stone, 3 ft diah raised a Md. Quartz
 $3\frac{1}{2}$ ft base $1\frac{1}{2}$ ft high N of Cor

60.65 Road bears N. W. and S. E

74.00 Trail bears N and S

79.80 Cor to Secs 23, 24, 25 and 26
Land rolling,
Soil 3rd rate.

~~X~~ Timber scattering cedars.

N. 0.01 W. Oak Secs 23 and 24

Over rolling land

10.77 Road Secs. N. W. and S. E

40.00 Set a lime stone $18 \times 18 \times 6$ ins 12 ins
in the ground for $\frac{1}{4}$ sec cor marked
 $\frac{1}{4}$ on N. face, dug pits $18 \times 18 \times 12$ ins
N and S of stone 3 ft dia, raised a
Mud of earth $3\frac{1}{2}$ ft base, $1\frac{1}{2}$ ft high
W. of Cor

80.00 Set a lime stone $30 \times 12 \times 10$ ins 18 ins
in the ground for cor to Secs 13, 14,
23 and 24. Marked with 3 notches on S
and 1 notch on E. edges dug pits
 $18 \times 18 \times 12$ ins in each sec $5\frac{1}{2}$ ft dia.
and raised a Mud of earth 4 ft base
 $2\frac{1}{2}$ ft high. W. of Cor
Land rolling. Soil 3rd rate
No timber

S. $89^{\circ} 59'$ E on a random line bet
Secs 13 and 24

Over rolling land

40.00 Set a trap $\frac{1}{4}$ sec cor

79.82 Intersect E. bdy. of Tp. 7. lks. S of Cr. to
Secs 13, 18, 19, and 24. thence I run
S. $89^{\circ} 58'$ W on a true line bet, Secs 13 + 24

39.91 Set a lime stone $20 \times 10 \times 6$ ins. 14 ins in the
ground for $\frac{1}{4}$ sec cor, marked $\frac{1}{2}$ on N. fore
day pits $18 \times 18 \times 12$ ins, E & W of stone 3 ft
dist, raised a Md. of earth $1 \frac{1}{2}$ ft high
 $3 \frac{1}{2}$ ft base. N of Cor

6274 Trail bears N and S

79.82 Cor to Secs 13, 14, 23 and 24

Land rolling

Soil 3rd rate

No timber.

Nov 17 - 1900

Nov 18th - at 8^h - 00^m AM. L. m. to I set off 19.10
 S on the dial arc; 35° 58' N. on the lat arc, and
 determine a true meridian with the solar at
 the cor to sees 13, 14, 23 and 24. These I run
 N. 0° 01' W. but sees 13 and 14
 Over hilly ground through scattering
 Cedars and Junos.

40.00 Set a lime stone 20 x 10 x 6 ins ~~in~~ in
 the ground for $\frac{1}{2}$ Cor. Marked $\frac{1}{2}$ on
 N. face dry pits 18 x 18 x 12 ins kind 3
 of stone 3 ft. dia, and raised
 a Md. of earth 3 $\frac{1}{2}$ ft base 1 $\frac{1}{2}$ ft
 high N. of Cor.

80.00 Set a lime stone 26 x 12 x 6 ins 18 ins in ground
 for Cor. to sees 11, 12, 13, and 14. Marked with 4
 notches on S and 1 notch on E. edges, dry pits 18.
 x 18 x 12 ins in each see 5 $\frac{1}{2}$ ft dia, raised a Md.
 of earth 4 ft base 2 ft high N. of Cor
 Land hilly. Soil 3rd rate
 Timber scattering. Cedars and Junos

N. $89^{\circ} 58' E$ on a random line bet. sec
12 and 13. Over mountainous land
through scattering Cedars and Firns.

40.00 Set trap 1/4 sec Cor.

79.70 Entered E. bdy. Tp. 11 lbs 3/4 cor to
secs 7, 12, 13, and 18. Chance I run
S. $89^{\circ} 58' W$ on a true line bet. sec 12 and 13.

39.85 Set a lime stone $18 \times 12 \times 8$ ins in a 2nd
of stone for 1/2 sec Cor. Marked 1/2 on N. face
Ditch impracticable -

79.70 Cor to secs 11, 12, 13, and 14.

Mountainous. Land 79.70 chs
Scattering Cedars and Firns
Some undergrowth 79.70 chs
Soil $\frac{1}{2}$ rate.

- N. 0° 01' W. bar seis 11 and 12
 Over mountainous land through
 dense undergrowth and scattering
 Cedars and Firns
- 5.00 Foot of bluff. ascend abruptly
- 10.40 Top of bluff. bears E and W. Continue to ascend
- 13.00 Descend over rocky ground
- 26.00 Bottom of descent, ascend
- 40.00 Top of ascent.
- Sub a lime stone 26 x 14 x 4 in, in a bed
 of stone for 1/4 sec or more. Marked N. on N. face
 Pits impracticable.
- 45.00 Edge of bluff bears N. W. and S. E
 descend abruptly.
- 50.00 Bottom of Cañon 400 ft deep on N. W.
- 56.00 Trail bears N. W. and S. E. Ascend
- 71.00 Top of bluff. N. side of Cañon bears
 N. W. and S. E. Continue to ascend
- 75.00 Top of ascent, ridge bet Cañons.
- 76.00 Edge. of bluff. descend abruptly.
- 80.00 Sub a Sand stone 26 x 18 x 10 in. a

Md. of stone 4 ft high for Cor to sec's
1, 2, 11 and 12, marked with 5 notches
on S and 1 notch on E. edges.

Cor on steep slope of Cañon about
100 ft above bottom of Cañon
Pits unsurpassable
Mountainous land 80 chs

Dense Undergrowth 80 chs
Scattered Cedars and Pinons
Soil 4th rate.

N. 89° 53' E. on a random line bet
Sec's. 1 and 12 along steep slope of Cañon

40.00 Set a temp 1/4 sec Cor.

79.60 Intersect. E. side T.P. 7 chs S of Cor to
Sec's. 1, 6, 7 and 12. thence I run
S 89° 50' W. on a true line bet sec's
1 and 12, ascending over mountainous land

14.25 Top of bluff bet. N. and S.E. descend.

16.60 Bottom of Cañon course N.W. ascend

- 22.25 Top of bluff bears N and S
- 29.40 Edge of bluff bears N and S
- 39.80 Set a line stone 18x12x12 ins. in
a ind. of stone stone for 1/4 sec or
marked 1/4 on N face
to impracticable
79.60 Cor to Secs 1, 2, 11 and 12
Mountainous land 79.60 chs
Dense under-growth 79.60 chs
Scattering Cedars and Spruces
Soil 4th rate
-

- N. 0° 01' W on a random line bet
Secs 1 and 2, over mountainous land
through dense undergrowth and scat-
tering timber
- 40.00 Set stump 1/4 sec Cor
- 79.91 Intersect N body, Tp. 40 lbs E of Cor
to Secs 1, 2, 35, and 36 thence 3 run
S. 0° 17' E on a true line bet

Stations 1 and 2. Ascending out of Cañon

- 9.00 Top of bluff bears $N. 10^{\circ} E.$ and $S. 10^{\circ} W.$
Continue to ascend
- 16.00 Top of ridge bet. Cañons, descend
- 30.00 Edge of bluff. bears $E \times W.$ descend abruptly
- 35.00 Bottom of Cañon 400 ft deep. course $N.$
Ascend abruptly.
- 39.00 Top of bluff. bears E and W
- 39.91 Got a lime stone $18 \times 12 \times 7$ ins in a
Md of stone for $\frac{1}{4}$ sec. cor.
Marked $\frac{1}{4}$ on $W.$ face. Pits in place.
- 46.60 Edge of bluff. bears $S. E \times W.$
descend abruptly.
- 52.00 Foot of bluff.
- 53.81 Trail bears $N. W.$ and $S. E$
- 55.00 Center of Cañon from $S. E$ to $W.$
Ascend
- 62.00 Top of ridge between Cañons
- 69.00 Edge of bluff. bears $E \times W.$ descend
- 74.00 Foot of bluff. bears E and $W.$

77.00 Bottom of Cañon 400 ft deep
Course N.

79.91 Cor to secs 12.11, and 12
Mountainous land 79.91 chs
Dense undergrowth 79.91 chs
Scattering Cedars and firs
Soil 4th rate

Nov 18-1900

Nov. 19, 8^{hr} 00^m AM. l.m.t. I set
off $19^{\circ}24'S$ on the decl. arc, 35°
 $58' N$ on the lat. arc, and determine
a true meridian with the solar
at the cor to secs 2, 3, 34 and 35
on the S, bdy which is a lime
stone $12 \times 10 \times 4$ ins above ground.
with end of stone N. of Cor
thence I run,

N. $0^{\circ}01' N$. bet Secs 34 and 35

Over mountainous land through dense undergrowth and scattering timber.

- 20.75 Edge of bluff. of Cañon bears E and W. descend.
- 23.25 Bottom of Cañon 200 ft deep course W. Ascend.
- 26.00 Top of bluff. N. side. Continue to ascend.
- 40.00 Set a lime stone $18 \times 10 \times 8$ ins ^{12 in} in the ground. for 14 Sec Cor. marked 14 on N. face, dug pits $18 \times 18 \times 12$ ins. N and S of stone 3 ft dia, and raised a mound of earth $3\frac{1}{2}$ ft base $1\frac{1}{2}$ ft. high. W. of Cor.
- 80.00 Set a lime stone $20 \times 10 \times 10$ ins 14 ins in the ground for cor to secs 26, 27, 34 and 35 marked with 1. notch on S. and 2. notches on E. edges, dug pits $18 \times 18 \times 12$ ins, in each sec. $5\frac{1}{2}$ feet dia

and raised a Md of earth
4 ft base, 2 ft high N. of Cor.
Mountainous land 80 chs
Dense Undergrowth 80 chs
Scattering Cedars and Junipers

N. $89^{\circ} 56' E$ on a random line
but Secs 26 and 35 over rolling
land through dense undergrowth

40.00 Sub trap $\frac{1}{4}$ sec cor

79.92 Intersect N and S. line 9 lks N. of
Cor to Secs 25, 26, 35 and 36. thence
I run; N. on a true line but Secs 26 and 35

39.96 Set a lime stone $18 \times 8 \times 6$ ins, 12 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 and W. of stone 3 ft dia.
raised a Md of earth $3\frac{1}{2}$ ft
base $1\frac{1}{2}$ ft high N of Cor

66.74 Road, bears N. W. and S E

79.92 Cor to sec's 26, 27, 34, and 35

Land rolling

Dense undergrowth 79.92 lbs

Soil 3rd rate

N. 0:01 W. bet sec's 26 and 27

Area rolling ground

11.38 Road, bears N. W. and S E

40.00 Set a lime stone 18 x 8, 8 ins 12
ins in ground, for $\frac{1}{4}$ sec Cor, marked

$\frac{1}{4}$ on W. face, dug pits 18 x 18 x 12 ins

N. and S of stone 3 ft dia and
raised a Mt of earth 3 $\frac{1}{2}$ ft base

1 $\frac{1}{2}$ ft high - W. of Cor

80.00 Set a lime stone 20 x 12 x 5 ins
12 ins in the ground for cor

to sec's 22, 23, 26, and 27

Marked with 2 notches on S and

2 notches on E edges; dug pits
18x18x12 ins in each sec 5 1/2
ft disk, raised a Mt of earth
4 ft base, 2 ft high. W of Cor
Land rolling
Soil 3rd rate
No timber.

- E. on a random line bet secs 23+26
 Over rolling land
- 40.00 Set temp $\frac{1}{4}$ sec cor
- 79.82 Intersect N and S line 12 lks. N. of
 Cor to secs. 23, 24, 25 and 26 then
 S run. N. $89^{\circ} 55'$ W on a true
 line bet secs 23 and 26
- 39.91 Set a lime stone $18 \times 12 \times 8$ ins. 12 ins
 in ground for $\frac{1}{4}$ sec cor. marked
 $\frac{1}{4}$ on N. face. dug pits $18 \times 18 \times 12$
 ins. E and W. of stone 3 ft dia.
 raised a wd of earth $3\frac{1}{2}$ ft base
 $1\frac{1}{2}$ ft high. N of Cor.
- 79.82 Cor to secs 22, 23, 26 and 27
 Land rolling
 Soil 3rd rate
 No timber

Nov 19-1900

Nov 20; 8^h - 00^m A.M. L m t. I set off. $19^{\circ}38'$
 S. on the decl arc; $35^{\circ}57'$. N. on the lat. arc.
 And determine a true meridian with the
 solar, at the cor to secs 22, 23, 26, and 27

Thence I run;

$N 0^{\circ}01' W$. bet bet secs 22 and 23

Over rolling land

40.00 Set a lime stone $18 \times 12 \times 4$ ins
 12 ins. in the ground for $\frac{1}{4}$ sec cor
 Marked $\frac{1}{4}$ on W. face, dug pits
 $18 \times 18 \times 12$ ins N. and S. of stone 3 ft
 dist, raised a wd of earth $3\frac{1}{2}$ ft
 base $\frac{1}{2}$ ft high. W. of cor.

74.40 Road bears N.W. and S.E

80.00 Set a lime stone $20 \times 10 \times 6$ ins
 14 ins in ground for cor to secs
 14, 15, 22, and 23, marked with
 3 notches on S. and 2 notches on
 E. edges, dug pits $18 \times 18 \times 12$ ins
 in each sec, $5\frac{1}{2}$ ft distance

and raised a Mn. of earth 4 ft
 base, 2 ft high. N. of. Cor
 Land rolling
 Soil 3rd rate.
 No timber

S. $89^{\circ} 55' E$ on a random line
 bet secs 14 and 23
 Over rolling land.

40.00 Set a trap $\frac{1}{4}$ sec cor

79.86 Interest. $\text{N. and S. line, 6 lvs S of}$
 $\text{Cor to secs. 13, 14, 23 and 24,}$
 thence I run:

N. $89^{\circ} 55' W$ on a true line bet secs 14 and 23

39.93 Set a sand stone 18.8 x 6 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 and W. of stone

3 ft dia, raised a 7th of earth
 3 1/2 ft base 1 1/2 ft high. N of Cor
 79.86 Cor. to secs 14, 15, 22, and 23
 Land rolling. Soil 3rd rate
 No timber

N. 0° 01' W. bet secs 14 and 15
 Over rolling land

40.00 Set a lime stone 18 x 14 x 4 in
 12 in in ground for 1/4 sec Cor
 marked 1/4 on W face, dug pits
 18 x 18 x 12 in, 4 and S of stone 3 ft
 dia, raised a 7th of earth 3 1/2 ft
 base, 1 1/2 ft high W of Cor.

80.00 Set a lime stone 18 x 12 x 10 in 12
 inches in ground for Cor to secs
 10, 11, 14 and 15 marked with 4
 notches on S. and 2 notches on

E. edges dug pits $18 \times 18 \times 12$ ins in
 each sec, $5\frac{1}{2}$ ft dia. raised a
 rd of earth 4 ft base 2 ft high N
 of Cor. Land rolling
 Soil 3rd rate
 No timber,

$S 89^{\circ} 58' E$ on a random line bet secs
 11 and 14. Over rough broken ground

4.00 Sat temp $\frac{1}{4}$ sec Cor

8.07 Intersect. N and S line 8 lbs N of Cor to
 Secs 11, 12, 13 and 14. thence I run

$N. 89^{\circ} 55' W.$ on a true line bet secs 11 & 14

Over mountainous land, through
 dense undergrowth and scattering timber

3.00 Foot of bluff. ascend abruptly

8.15 Top of bluff. 400 ft high bears $N. 75^{\circ} S$
 Continue to ascend

29.00 Top of high ascend. begin to descend

- 36.00 Head of Cañon, Course N, ascend
- 40.03 Set a lime stone, 16x10x6 in in a line
of stone for $\frac{1}{4}$ sec cor marked $\frac{1}{4}$ on
N. face, Pits impracticable
- 54.00 Top of high ascent, descend over
rolling Land
- 80.07 Cor to secs 10, 11, 14 and 15
Mountainous Land 54 chs
Rolling Land 26 chs
Dense undergrowth 80.⁰⁷ chs
Scattered Cedars and Junos
Nov 20 - 1900

Nov 21: at 8^h 00 am. e.m.t. I set off 1951/5
on the decl arc; 35° 59' N on the lat arc,
and determine a true meridian
with the solar at the Cor to secs
10, 11, 14 and 15 thence I run

N 0° 01' W. but sees 10 and 11

Over rough, rocky ground through
dense undergrowth

40.00 Set a lime stone 18x12x6 ins
in a Md of stone for 1/4 sec or
marked 1/4 on W face.

80.00 ^{Pits impracticable}
Set a lime stone 24x12x6 ins
in a Md of stone for cor to sees
2, 3, 10 and 11, marked with 5

notches on S and 2 notches on
E. edges Pits impracticable

Land rough and rocky

Sail 4th rate

Dense undergrowth 80 chs

Scattered Fir, Spruce and Cedars

- S. $89^{\circ}55'E$ on a random line bet secs
2 and 11. Over mountainous land through
dense under growth & scattering timber
- 40.00 Sat temp $1/4$ sec cor.
- 79.95 Intersect 1 and 3 line 10 lbs. S. of cor
to secs 1.2. 11 and 12 thence I run
N. $89^{\circ}59'W$ on a true line bet secs
2 and 11 ascending slope of cañon diagonally
- 7.00 Top of ascent, descend
- 12.50 Ascend.
- 22.71 Trail bears N.W. & S.E descend
- 24.00 Bottom of Cañon course N. ascend
- 30.00 Top of point. descend
- 34.60 Bottom of cañon from S. to N.E
- 39.97 Set a lime stone $24 \times 10 \times 6$ ins in a
Mid of stone for $1/4$ sec. cor marked
 $1/4$ on N. face Pits impracticable.
- 42.60 Ascend abruptly out of cañon which
comes in from S.W
- 47.30 Top of bluff. bears E. and W. Continue

to ascend

65.00 Top of high ascent, descend

79.95 Cor to Secs 2, 3, 10 and 11

Land Mountainous 79.95 chs

Dense Undergrowth 79.95 chs

Scattering Cedars and Pinus

Sail $4\frac{1}{2}$ mts

N. $0^{\circ} 01' W.$ on a random line
but Secs 2 and 3,

Cross mountainous land, through
dense undergrowth

40.00 Sat tramp $1\frac{1}{2}$ sec Cor

79.62 Intersect N. City Tp 48 lks. E
of Cor. to Secs 2, 3, 34 and 35 - thence

I run S. $0^{\circ} 20' E$ on a true
line, but Secs 2 and 3

Descending

- 11.00 Bottom of Cañon Course W.
Ascend abruptly
- 22.82 Top of bluff: bears N.E. and S.W.
Continue to ascend
- 27.00 Top of ascent, descend
- 39.00 Edge of bluff, bears N.E. and S.W.
descend
- 39.62 Saw a lime stone $18 \times 10 \times 4$ in in a
Mtd of stone for 1/4 sec or
Marked 1/4 on W face Pitt. in place
- 44.10 Bottom of Cañon. Course E. ascend abruptly
- 48.12 Top of bluff. bears E and W.
- 79.62 Cr to bees 2, 3, 10, and 11
Mountainous land 79.12 chs
said $\frac{1}{4}$ of the rate
Dense Undergrowth 79.12 chs
Scattering Cedars and Pinons
- Nov 21-1900

Nov, 22: 8^h 55^m AM. Cont. I set off $20^{\circ} 04' S$ on
 the decl. arc, $35^{\circ} 55' N$ on the hor. arc, and
 determine a true meridian with the solar at a
 point 3 chs. S. of Cor to Secs 3, 4, 33, and 34 on the
 S. bdy, the point for which comes in the
 Cataract Cañon and is inaccessible, I
 therefore set over a point 3 chs. S of the cor.
 and being enabled to obtain a base line for
 the purpose of measuring the distance across
 the cañon, I set a flag on the N. side
 of cañon on a course $N 0^{\circ} 02' W$ of my
 station; then after placing a flag at my
 station - 3 chs. S of Cor to Secs 3, 4, 33 and 34
 I proceed to the point on the N. side of
 Cañon and measure a base $5,95^{\circ} 33' W$
 $12,22$ chs to a point from which the
 flag on the S. bank of Cañon bears $S.$
 $12^{\circ} 26' E$. Therefore $Sin 82^{\circ} 01' \times 12,22 =$
 $Sin 12^{\circ} 24' = 56,36$ chs, the distance from
 my present station to the flag 3 chs. S

of Cor to Secs 3, 4, 33, and 34 making
my station 53.36 chs. $N. 0^{\circ} 02' W$
of Cor to Secs 3, 4, 33, and 34
I therefore run

$5.0^{\circ} 02' E$ and at

- 3.10 Descend to deep rocky gulch
9.60 Bottom of gulch Course $N.$ ascend
11.60 Top of bank of gulch bears E and N
13.36 Set a lime stone $20 \times 10 \times 10$ ins in a
Mtd of stone for $\frac{1}{2}$ sec cor,
Marked $\frac{1}{4}$ on $N.$ face Or impractic,
17.40 Edge of Vertical Cluff of Cataract. Canon
bears E and N

I now return to point on the line
bet Secs 33 and 34, 53.36 chs. N of
S. bdy of Tr. and run $N 0^{\circ} 02' W$ and

- 74.90 Road bears E and N
80.00 Set a lime stone $18 \times 10 \times 8$ ins in a
Mtd of Stone for Cor to Secs 27, 28
33, and 34. Marked with one

Notch on S. and 3 notches on
 E. edges. Pits impracticable
 Land Mountainous 80 chs
 Dense Undergrowth 44 chs
 Scattered Cedars and *Faxinus*
 Soil rocky 4th rate

N. $89^{\circ}58'$ E on a random line bet
 Secs 27, and 34. Over rough, rocky
 land through dense undergrowth.

40.00 Set trap $\frac{1}{4}$ sec cor

80.06 Enter at N and S line 3 lks N of Cor
 to secs 26, 27, 34 and 35. Thence S
 S $89^{\circ}57'$ W. on a true line bet Secs
 27 and 34

40.03 Set a lime stone $18 \times 10 \times 10$ in. in a
 bed of stone for $\frac{1}{4}$ Sec. ^{of} Marked $\frac{1}{4}$ on N. line
 Pits impracticable

50.75 Road bears N and S

80.06 Cor to Secs 27, 28, 33, and 34
 Land rough and rocky
 Dense Undergrowth 80^{.06} chs
 Soil 4th rate

S. 89° 56' W on a true line bet Secs 28.
 and 33, Over rough, rocky land, through
 dense undergrowth.

40.00 Set a line stone 18x10x6 ins. in a rd
 of stone for 1/4 Sec. Or marked 1/4 on N. of
 Descend abruptly steep slope of Catron
 Cañon Cito impracticable

46.60 Edge of vertical bluff of Catron Cañon
 bearing N. W. and S. E
 Land rough and rocky
 Dense Undergrowth 46.60 chs
 Soil 4th rate

N. 0° 12' W. bed sees 27 and 28

Over mountainous land through dense
brush growth

11.60 Descend to cañon

15.00 Bottom of cañon 200 ft deep Course W.

Ascend abruptly

17.50 Top of bluff. N. side bearing E and W

Continue to ascend

37.00 Foot of rock bluff. 10 ft high bearing E & W

37.10 Top of bluff.

40.00 Set a lime stone 24 x 12 x 6 in in a

Mid of stone for 1/2 hr Cor marked by on N. face
P. to S. for reference -

80.00 Set a lime stone 18 x 12 x 10 in in Mid of stone

for Cor to see 21, 22, 27 and 28. Marked with
2 pebbles on S and 3 pebbles on E. edge

P. to impracticable -
Mountainous land 50th Soil 4th rate

Dense brush growth. 80 ch.

Scattered Cedar and Fir

- N. 89° 57' E on a random line bet sec 22 & 27
 One rough, rocky land, through dense
 Undergrowth and scattering cedars.
- 40.00 Set back 1/4 sec Cor
- 80.09 The cor to sec 22, 23, 26 and 27
 I run:
 S 89° 57' W. on a true line bet sec 22 and 27
- 40.04 Set a lime stone 18x12x8 ins, 12 ins in
 the ground for 1/4 sec, Cor marked 1/4 on
 N. face, dug pits 18x18x12 ins E and W
 of stone 3 ft dia and raised a mound of
 earth 3 1/2 ft base 1 1/2 ft high N of Cor
- 76.00 Road bears N. W. and S. E
- 80.09 Cor to sec 21, 22, 27 and 28
 Land rough and rocky.
 Soil $\frac{1}{4}$ rate
 Dense undergrowth 80⁰⁹ ch
- Nov 22 - 1900

Nov, 23; at 5th 00^m A.M. went out and set off 20° 17' S on the
 decl. Arc, and 35° 57' N on the lat Arc, and determine
 a true meridian with the solar at the cor to sees
 21, 22, 27 and 28. Thence I run:

S 89° 56' N on a true line bet sees 21
 and 28. Cross rough rocky ground
 through dense undergrowth.

40.00 Set a line stone 20 x 12 x 6 ins in a Md
 of stone for 1/2 sec. Cor Md 1/2 on N face
 Pits impracticable

77.00 Edge of rock bluff of bench 18 ft high
 bears N and S

77.15 Foot of bluff.

80.00 Set a line stone 30 x 12 x 12 ins in a Md
 of stone 4 ft high for cor to sees 20, 21
 28 and 29 Marked with 2 notches on Sand
 4 notches on 2 edges. Pits impracticable
 Sand rough rocky. Soil 4th rate
 Dense Undergrowth 80 cts
 to timber

- N. 0'02. W. bet Secs 21 and 22
 Over rolling land, through dense
 Undergrowth
- 24.95 Road bears N.W. and S.E
- 40.00 Set a line stone 18x10x8 ins in a Md
 of stone for $\frac{1}{4}$ sec. Cr. Mark $\frac{1}{4}$ on W. face
 Pits impracticable
- 80.00 Set a line stone 20x10x10 ins 14 ins in
 ground for Cr. to sec's 15, 16, 21 and 22
 Marked with 3 notches on S and 3
 Notches on E. edges with 30 N. on N.E.
 and 2 W. on N.W. faces and mixed
 a Md. of stone 3 ft base and 3 ft
 high N. of Cr.
 Land rolling
 Soil 3rd rate
 Dense Undergrowth 80 chs

N. $89^{\circ} 57' E$ on a random line bet Secs
15 and 22. Over rolling land, through
dense undergrowth.

40.00 Set temp. $\frac{1}{4}$ sec cor.

79.98 Intersect N and S. line 5 lbs 3 of Cor
to Secs 14, 15, 22 and 23. thence I run
S. $89^{\circ} 55' W$ on a true line bet Secs 15 & 22

6.29 Road bear N. W. and S. E

39.99 Set a lime stone $20 \times 14 \times 4$ ins 14
ins in the ground for $\frac{1}{4}$ sec cor
marked $\frac{1}{2}$ on N face. dug pits 18×18
 $\times 12$ ins, E and W. of stone 3 ft dia and
raised a $\frac{1}{2}$ of earth $3\frac{1}{2}$ ft base $1\frac{1}{2}$ ft
high N. of Cor.

79.98 Cor to Secs 15, 16, 21, and 22

Land rolling. Soil 3rd rate
Dense undergrowth 79.98 lbs.
it's timber.

N. $0^{\circ} 02'$ W. bet Secs 15 and 16

Over rolling land and through dense
undergrowth.

40.00 Set a lime stone $18 \times 12 \times 10$ ins in a
Mid of stone for $\frac{1}{4}$ sec. Cor marked
 $\frac{1}{4}$ on W. face. Pits impracticable

44.84 Road bears N. W. and S. E

80.00 Set a lime stone $18 \times 12 \times 10$ ins ¹² ins in
ground for Cor to sec 9, 10, 15 and 16
marked with L notches on S. and 3
notches on E. edges, dug pits 18
 $\times 18 \times 12$ ins in each sec. $5\frac{1}{2}$ ft dia
and raised a Mid of earth L of base
2 ft high W. of Cor
Land rolling, Soil 3rd rate
Dense undergrowth Soles
No timber

Nov 23 - 1900

Nov. 24! At 8^h 00^m AM. C.M.T. I set off 20° 28' S
on the decl arc. and 35° 59' N. on the lat arc
and determine a true meridian with the
solar at the cor. to secs 9, 10, 15 and 16.

Thence I run:

N. 89° 55' E on a random line back
secs 10 and 15, over rolling land
through dense undergrowth.

40.00 Set traps 1/4 sec. Cor

80.09 Intersect N. & S. line 12 lbs. N. of Cor
to secs 10, 11, 14 and 15. Thence I run
W. on a true line back Secs 10 and 15

4.04 Set a lime stone 18x10x8 ins 12 ins in
the ground for 1/4 sec Cor marked
1/2 on N. face, dug pits 18x18x12
ins 2 and W. of stone 3 ft dia
and raised a mound of earth 3 1/2 ft
base 1 1/2 ft high N of Cor

80.09 Cor to Secs. 9, 10, 15 and 16

Land rolling

Soil 3rd rate

Dense Undergrowth 80⁰⁹ Chs.

N. 0° 2' W. bear Secs 9 and 10

Over rolling ground through dense Undergrowth.

40.00

Set a line stone 18x10x4 ins in a

Mid of stone for 1/2 Sec Cor Mkd 1/4 on W for
Pits impracticable

80.00

Set a line stone 18x16x5 ins in Mid

of stone for cor to sec's 34.9 & 10

marked with 5 notches on 3 and

3 notches on E. edges Pits impract

Land rolling

Soil 3rd rate

Dense Undergrowth 80 Chs

No timber

East on a random line bet secs 3 and 10
Over rolling land through dense
undergrowth.

20.00 Set trip 1/4 sec cor

80.12 Intersect N and S line. 6 lbs N of Cor
to secs 2, 3, 10 and 11. Hence I run
N. $89^{\circ} 57' W$ on a true line bet secs 3 & 10

20.00 Set a line stone $17 \times 10 \times 4$ ins in a
Mid of stone for 1/4 sec cor
Marked 1/4 on N. face Pits in part

80.12 The cor to secs 3, 4, 9, and 10
Land rolling

Soil 3rd rate

Dense undergrowth 80¹² ties

- N. 0° 02' W. on a random line bet
 Secs 3 and 4, Over broken land
 through dense undergrowth
- 40.00 Set trap 1/2 sec Cor
- 79.36 Disturb. N bdy. To 46. lbs 2 of Cor to
 Secs 3, 4, 33, and 34 thence S run.
 S. 0° 20' E. on a true line bet Secs 3 & 4
- 39.36 Set a lime stone 18x12x12-in in NW
 of stone for 1/2 sec Cor. Marked 1/4 on N four
 pts impracticable.
- 79.36 The Cor to Secs 3, 4, 9, and 10
 Land broken.
 Soil at the water
 Dense undergrowth. 79.36 lbs
 No trees

Nov 24. 1900

Nov 25: at 8⁴⁰₀₀ AM. L.M.T. D. set off. $20^{\circ}41'S$
 on the decl arc: $35^{\circ}57'N$ on the lat. arc
 and determine a true meridian with solar
 alt the Cor to sea's 20. 21. 28. and 29. thence I run

$S. 0^{\circ}03' E$ on a true line bet sea's
 28 and 29. Through dense undergrowth.

28.70 Set a line stone $36 \times 18 \times 6$ in in a
 Md of stone for witness Cor to the
 "d see Cor marked W.C. "Low W. face
 Pit ~~unpracticed~~

29.00 Edge of vertical bluff of Catanch
 Cuira. bearing E. and W.

Land rolling

Sail at the rate

Dense Undergrowth ⁴⁰ 24 chs

No timber.

- N. 0° 03' W. bar Secs. 20 and 21
 Over mountainous land through
 dense undergrowth
- 24.00 Edge of bluff of Cañon bears E & W
 Descend abruptly
- 28.60 Bottom of Cañon 400 ft deep Course W.
 Ascend abruptly
- 31.50 Top of bluff. N. side
- 33.00 Edge of bluff of Cañon 250 ft deep
 Bears E. and W. Ascend
- 40.00 Top of point but two cañons,
 Set a lime stone 20 x 10 x 6 in in mid
 of stone for 1/4 sec. Cor. marked 1/4 in
 Piton ^{Piton} _{infract.}
 N. face, descend abruptly
- 41.50 Bottom of Cañon Course S.W. Ascend
- 43.00 Top of bluff bearing S.W. and N.E
 Continue to ascend
- 60.00 Top of ascent, begin to descend
- 80.00 Set a lime stone 20 x 12 x 4 in in
 a mid of stone for Cor to sec.

16. 17. 20 and 21 marked with 3

notches on S and 4 notches on E

Pits impracticable.
edges of mountainous land 80 chs

Dense Undergrowth 80 chs

Soil of the site

Timber scattering Cedars and pines

N. $89^{\circ}56'E$ on a random line bet Secs

16. and 21, Cor. mountainous land

through dense undergrowth.

40.00 Set stake 1/4 sec Cor.

80.11 Intersect N. and S line 9 lbs N of Cor to

Secs. 15. 16. 21 and 22, thence I run

West on a true line bet Secs 16 and 21

2122 Road bears N. $10^{\circ}W$ and S. $10^{\circ}E$.

40.05 Set a line stone $26 \times 16 \times 8$ in in a field

of stone for 1/4 sec Cor. Marked 1/4 on N. of
Pits impracticable

44.00 Head of gulch course N. E

80.11 Cor to Secs 16. 17. 20. and 21

Mountainous land 80.11 Chs
 Dense Undergrowth 80.11 Chs
 Soil $\frac{1}{4}$ the rate

- N. 0° 03' N. bet Sacs 16 and 17
 Cross mountainous land through
 dense Undergrowth and Set-timber
- 12.00 Head of rocky gulch 100 ft deep course
 N. proceed down cañon
- 29.30 Center of Cañon 200 ft deep. Cañon
 turns ^{N.}W. ascend. steep slope of bluff
 diagonally.
- 35.50 Top of bluff bears S. E + N. W.
 Continue to ascend.
- 40.00 Top of ascent
 Set a lime stone 18x12x10 in in a
 mid of stone for $\frac{1}{2}$ sec. cor. marked $\frac{1}{4}$
 on W. face. Pits impracticable.
- 42.00 Edge of bluff of Cañon bears N. E. + S. W.

Descend slope diagonally

51.50

Bottom of Cañon Course N. E. Ascend point

54.00

Top of point. Descend

63.80

Bottom of Cañon Course N. W. Ascend, abruptly

67.50

Top of bluff. bears S. E. and N. W. descend

77.30

Bottom of Cañon, Course W. Ascend point

78.00

Top of point descend.

80.00

Set a lime stone 30 x 14 x 6 in in a
 mid of stone 4 ft high for Cor to see

8, 9, 16 and 17. Marked with 4 notches
 on S. and 4 notches on E. Edges
~~Point impracticable~~
 Mountainous land 80 chs

Dense Undergrowth 80 chs

Soil 4th rate

Scattering Cedars and Junipers

Apr 25-1900

Nov 26: At 8⁴⁵ AM. Lunt. S set off. 20° 52' S
 on the decl or: 35° 59' N on the lat. ac: and
 determine a true meridian with the solar at
 the cor to secs 8, 9, 16 and 17. thence 0 run:

E on a random line bet secs 9+16
 Through dense undergrowth

40.00 Set trap 1/4 sec cor

80.16 The Cor to secs 9, 10, 15, and 16 thence
 I run met on a true line bet secs 9+16

27.25 Road bears N and S

40.58 Set a line stone 18x12x4 in¹² in^{ing} the
 ground for 1/4 sec. Cor. marked 1/4 on
 N. face. dug pits 18x18x12 in² and
 N. of stone 3 ft dia, and raised
 a Md of earth 3 1/2 ft base 1/2 ft high
 N. of Cor.

80.16 Cor to secs 8, 9, 16 and 17

Land rolling. Soil 3rd rate

Dense Undergrowth 80.16 chs. No lumber

W. on a true line. but see's Sand 17

Over mountainous land through dense
Undergrowth, descending

0.40 Bottom of Cañon Course S.W. Ascend
Steep slope of bluff diagonally.

16.90 Top of slope, descend

20.00 Set a lime stone $28 \times 16 \times 8$ in in a
row of stone for inches or to the $\frac{1}{4}$ sec
Co. Marked N. E. W. on N face

21.45 ^{Pits impracticable} Edge of Vertical bluff of Cataract
Cañon bears N and S

Mountainous land 21.45 chs

Dense Undergrowth $\frac{40.00}{21.45}$ chs

Soil 4 $\frac{1}{2}$ - 1 m

No timber

- N. 0° 03' W. lat Secs 8 and 9
 Over mountainous land through dense
 Undergrowth, descending
- 0.50 Bottom of Cañon 300 ft deep course
 S.W. Ascend steep slope diagonally
- 11.35 Top of bluff bears N.E. and S.W.
 Continue to ascend.
- 35.50 Road bears N.W. and S.E.
- 36.00 Top of high ascent
- 40.00 Set a line stone 22 x 16 + 6 ins in a
 Mid of stone for 1/2 sec see cor marked
 1/4 on W. face, Pits impracticable
- 76.00 Set a line stone 24 x 16 x 4 ins in Mid
 of stone 4 ft high for witness cor to cor
 of Secs 4, 5, 8 and 9, marked W.C with
 5 notches on S and 4 notches on E edge.
 Pits impracticable
- 76.50 Edge of vertical bluff, at mouth of side
 Cañon from S.E., Soil 4th rate, No timber
 Mountainous land 80 chs
 Dense Undergrowth 80 chs

From the cor to sec's 3, 4, 9 and 10

Drum: W. on a true line bet sec's 4 and 9
Over mountainous land through dense
undergrowth.

40.00 Set a lime stone $20 \times 12 \times 4$ ins in a Mt
of stone 4 ft high for witness cor marked W on N face

60.00 Pits impracticable
Edge of bluff of Cañon branch of Cataract
Canyon. N, W. and S.E. descend

65.25 Bottom of Cañon 100 ft deep course N.W.
at L chs turn S.W. Ascend

67.58 Top of point. descend abruptly

74.00 Bottom of Cañon course S.W. Ascend

76.80 Top of point and edge of vertical bluff
of Cataract Cañon 500 yds N. of mouth of
side cañon which comes in from S.E.

Set a lime stone $22 \times 14 \times 6$ ins in a Mt
of stone 4 ft high for witness cor
to cor of sec's 4, 5, 8 and 9 marked W-C
With 5 notches on S and 4 notches
on E edges. Pits impracticable

Bluff faces S.E. and N
 Mountainous land 80 chs
 Dense Undergrowth 80 chs
 Soil 4th rate
 No timber

Nov 26. - 1900

Nov 27. at 8^h-00^m AM. Lm. to I set
 off 21° 03' S on the decl arc: 35° 55' N
 on the lat arc, and determine a true
 Meridian with the solar at the cr to
 Secs 5, 6, 31 and 32. on the S side, which
 is a lime stone 6 x 6 x 8 ins above ground
 marked with 5 notches on E and 1 notch
 on W. edges with Md and Dite
 Thence I run:
 N. 0° 04' W. bet Secs 31 and 32
 Through dense undergrowth

- 40.00 Set a lime stone $20 \times 10 \times 5$ ins in a
 Md of stone for 1/2 sec Cr. marked 1/4 on
 N. face and raised a Md of stone
 2 ft base 2 ft high. W of Cr.
- 47.00 ~~Pits impracticable.~~
 Edge of Cañon bears E and W descend
- 54.00 Bottom of Cañon 100 ft deep course
 E. ascend
- 61.06 Top of bluff of Cañon bears E+W
- 80.00 Set a lime stone $18 \times 12 \times 10$ ins in
 a Md of stone for Cr to Secs 29, 30
 31 and 32, marked with 1 notch on S
 and 5 notches on E edges and
 raised a Md of stone 2 ft base
 2 ft high W of Cr. Pits impract.
 Land rolling.
 Soil 4th rate
 Dense Undergrowth 80 chs.

- N. $89^{\circ}56'E$ on a true line between 29th & 32
- 7.64 Edge of bluff bears N. E and S. W. descend
- 19.00 Bottom of Canon. Course N. E ascend
- 32.08 Top of bluff east side bears N. E. ⁹⁰ S W
- 40.00 Set a line stone $20 \times 10 \times 4$ ins in a Mt of
Stone for $\frac{1}{4}$ sec cr marked $\frac{1}{4}$ low face
and raised a Mt of stone 2 ft base 2
ft high N. of Cr. Pits impracticable
- 64.39 Edge of bluffs of bluff of Cataract Canon $60^{\circ} N^{\circ} S$
Set a line stone $22 \times 6 \times 6$ ins in the
of stone for witness Cr to Cr. of sec
28. 29. 32 and 33. marked W. C. with
one notch on S and 4 notches on E edges
Pits impracticable.
- Trail. Mountainous 80.00 chs
- Dense undergrowth 50.00 chs
- Soil 4th rate
- No timber

S. $89^{\circ}56'$ W on a random line bet sec's
30 and 31. Over rolling land through
dense undergrowth.

40.00 Set trap $\frac{1}{4}$ sec cor

79.20 Intersect W. bdy Tp. 7 lks S of Cor to
Sec's 25, 30, 31 and 36, thence S run;
N. $89^{\circ}59'$ E on a true line bet sec's 30²⁵ & 31

39.20 Set a lime stone $18 \times 10 \times 8$ ins 12 in in
the ground for $\frac{1}{2}$ sec cor marked $\frac{1}{4}$
on N face. dug pits $18 \times 18 \times 12$ ins E
and W. of stone 3 ft dia and
mixed a mud of earth $3\frac{1}{2}$ ft base
 $2\frac{1}{2}$ ft high N. of Cor

79.20 The cor to sec's 29, 30, 31 and 32
Land rolling.

Set 4th rate

Dense undergrowth. 79.20 chs

No timber.