

-1391

Book No. 4.

See Index Field Notes

No. 1391

OF THE SURVEY OF

BOOK 1391

The fourth Standard
Parallel Cr. through Co.

2, 3, 4, 5, 6, 7 E, and

12, 13 and 14 E.

Resurvey by Guando Latimer (in
No. 1391, the Re 5, 6 & 7 E, in package

ila and Salt River Base and Meridian
Retracement by Coutzen, (in 1391)

14 E, two packages
ARIZONA.

y J. E. McLaughlin D.S.

nder contract dated May 16th 1873

urvey commenced July 9th 1873

urvey completed July 23rd 1873

No. 1391

Resurvey by Drummond (in
No. 1391, the Re 12 & 13 E, in package

1A

Preliminary Oaths of Assistants.

We James & Parley Joseph. Blissridge
and John W. Watts. and Ridgely M. Laird

do solemnly swear that we will well and faithfully execute
the duties of Chain Carriers; that we will level the chain over
even and uneven ground, and plumb the tally pins, either by
sticking or dropping the same; that we will report the true dis-
tance to all notable objects, and the true length of all lines that
we assist in measuring, to the best of our skill and ability and
in accordance with instructions given us in the survey^{and returning} of the

4th Standard Parallel North from the
Principal Meridian East to R 17 E.

The 3rd Auxiliary Guide Meridian East through T's 13, 14
15, 16, 17, 18, 19, 20, 21 North,
and 5th Standard Parallel North through Ranges 10, 11, 12 and 13 East
of the principal base and meridian in the Territory of Arizona.

James & Parley Joseph. Blissridge Chainman.
John W. Watts, Ridgely M. Laird Chainman.

Subscribed and sworn before me, this 8th

day of July 1883

J. B. McLaughlin
Notary Public.

We ^{of} Thomas Cliphant, Hugh B. McMaster
and Nathaniel Nickolls

do solemnly swear that we will well and truly perform the
the duties of Assessors and Flagman
respectively

in the establishment of corners and other duties according to
instructions given us, and to the best of our skill and ability,

in the survey ^{and tracing} of the ^{4th} Standard Parallel North

from the Principal Meridian East to R. 17 East

The 3rd Auxiliary ^{Line} Meridian East, through Tps 13, 14

15, ^{and} 16 N. ^{and} same line, through Tps 17, 18, 19, 20

^{and} 21 North ^{and} 5th Standard Parallel North
through Ranges 10, 11, 12, ^{and} 13 East,

of the principal base and meridian in the Territory of Arizona.

Nathaniel Nickolls ^{Flagman}
Thomas Cliphant ^{Assessor}
Hugh B. McMaster ^{Assessor}

Subscribed and sworn to before me this 8th

day of July 1883.

J. B. McLaughlin
Notary Public.

Not Needed

BOOK 1391

No. 1391

Index

4th Stand Cr. through R. 7 E.	1
from 1 to 10	
4th Stand Cr. through R. 6 E.	11
from 11 to 22	
4th Stand Cr. through R. 5 E.	23
from 23 to 35	
4th Stand Cr. through R. 4 E.	36
from 36 to 45	
4th Stand Cr. through R. 3 E.	46
from 46 to 56	
4th Stand Cr. through R. 2 E.	57
from 57 to 67	
4th Stand Cr. through R. 1 E.	68
from 68 to 78	

Cont. on next Page.

See book

For description of instruments
~~and preliminary notes~~
~~see Book~~

Survey commenced June 1887.
 Survey completed

Index continued

	Page
4th Quad. Cor. A. through R. 14 E.	79 to 87
" " " " " " 13 "	88 " 91
" " " " " " 12 "	92 " 101

4th Standard Parallel north through
the Range 7 E.

From this ~~stand~~ cor. to Tps.
17 of R. 1 E. and 1 N. on
the Principal Meridian
recently established by me
I found East Iowa
raydon line on the
S. Boundary of Tps. 17 of
with a variation
of 13045° E. ~~S. 17 of~~

Temporary Cor. at
every 40 and 80 chains
and at 42 miles I find
no corner, but after
making a diligent search
I find the Stand. Cor. to Tps.
17 of R. 1 E. 1 mile 51 chs. 47
links West and 28 chains.
South of the 42 mile
point, I found the
Cor. to be a

BOOK 1391

R. 1 E R. 2 E R. 3 E

31	32	33	34	35	36	31	32	33	34	35-36	31	32	33	34	35-36		
77	78	79	71	70	68	65	64	62	60	59	57	54	52	50	49	45	46
6	5	4	3	2	1	6	5	4	3	2	1	6	5	4	3	2	1

R. 4 E R. 5 E

31	32	33	34	35	36	31	32	33	34	35	36
44	42	41	39	37	36	33	31	29	27	25	23
2	5	4	3	2	1	6	5	4	3	2	1

R. 6 E R. 7 E

31	32	33	34	35	36	31	32	33	34	35	36
20	18	16	14	12	11	8	7	5	4	2	
6	5	4	3	2	1	6	5	4	3	2	1

R. 12 E R. 15 E R. 14 E

31	32	33	34	35	36	31	32	33	34	35	36	31	32	33	34	35	36			
99	98	96	95	93	92							90	89	88	86	84	83	82	80	79
6	5	4	3	2	1	6	5	4	3	2	1	6	5	4	3	2	1			

White 1273
1771

4th Standard Parallel Cr.

Chains

foot in a stone mound
properly marked and notched
and in good condition
from which an oak
12 ins. in diam. ~~to~~

at 27k. ⁸⁰ ~~to~~ properly marked
a pine 12 ins.
in diam. to. at 54° E.

327 links dist. ^{properly} marked
Thence I run N 89° 30' W.

on a true line out the
South Boundary of Sec.
36 with a var. of 13° 42' E.

Down through dense oak timber.

40,00

Set a maple 16x14x8
ins. 11 ins. in the
ground for ^{Stand} 14 Sec.

Stand. Co. marked 3.C 14 at 4.
on N. face, and raised

a mound of stone

through Range 7 East.
Chain

along side.

Pit is impracticable

79.09 Cross dry wash 25 feet
wide. E. N. and
ascend

80.00 Set a malpais rock
20 x 10 x 10 ins. 15 ins.
in the ground for
Standard Cor. to Sta.
80 and 86 marked S. E.
with 1 notch on E. and
5 notches on N. edge.

and raised a mound
of stone along side.

Pit impracticable

Surface Cooper
Soil E. rate

Some oak and cedar brush
Fair grass

4th Standard Parallel St.

Chains

Cr. 89° 30' N. on a true
line on the S. Bound.
of Sec. 35
To. 13° 42' E.

Round

40.00

Top of mesa bet. Cr. and S.
Set a malpais rock
16x12x8 ins. 11 ins. in
the ground for Station 4 S.
Standard Cor. marked
S. C. 1/4 on Cr. face
and raised a mound
of stone alongside.

Pit impracticable

60.29

Road bet. Cr. and S.
and descend N. slope of mesa

80.00

Set a malpais 16x14x6
ins 11 ins in the ground
for Standard Cor. 1/5
Secs. 34 and 35

through Range 7 E
 Davis

marked S. W. with 2
 notches on E. and 4
 notches on N. edge
 and raised a mound
 of stone southerly
 of it, impracticable
 except Broken
 Soil 3rd. soft
 Dense oak and Cedar
 brush Fair grass.

N. 89° 30' W. on a low
 line on the S. Branch
 of Cr. 24
 Val. 30 42' E.

Continue to descend
 18.65 cross dry wash W. S.
 and ascend

32.00

Top of mountain to
 N. W. and S. E.

6
4th Standard Parallel N. through
Chavis

and descend

40.00

Set a malpais rock
10x10x8 ins. 11 ins. in
the ground for Standard
"4" Sec. 4th. marked
S. C. "4" on N. face;
and raised a mound
of dirt along side.

80.00

Path impracticable
Set a malpais rock
10x12x8 ins. 11 ins. in
the ground for ^{Stand. Cor.}
to Secs. 33 and 34
marked S. C. with
3 notches on E. and N.
edges; and raised a
mound of dirt
along side. Path impracticable
Surface broken and
irregular.

Range 7 E.
 Chenis

Soil 4" th rate
 Down oak and cedar
 brush

N. 89° 30' W. on a true
 line to the S. Bound,
 of Sec. 30

Va. 13° 42' E.

Descending

40.00

Set an Iron rock
 20 x 18 x 7 ins. 15 ins. in
 the ground for ^{Sub 4} Sec.
~~Standard~~ Co. marked
 S. Co. "4 on N. face, and
 raised a board of
 stone alongside.

Pit is unproductive

46
 Coarse bog wash 30 links
 wide (Co. S. N. water
 10 ch. S. of line)

4th Standard Parallel - St.

Chains

8000

and ascend gradually.
Set a malleable iron
12 x 8 x 8 ins. 8 ins. in
the ground for Standard
C.C. to Sec. 32 and
33 marked S. C. with
4 notches on E. and
2 notches on N. edges
and raised a mound
of stone along side.

Rtg. unpredictable

Surface broken and
irregular

Dense oak and Cedar brush

$N 89^{\circ} 30' W.$ on true line
on the S. Bound. of
Sec. 32.

$Va. 18^{\circ} 42' E.$

Whitcomb Range 7 E

Quinn

ascend gradually

10.60 Top of mesa
top. N. and S.

12.14 Left bank of cañon
top. N. and S. the cañon
is about 200 ft. deep
and descend abruptly into
cañon.

20.00 Centre of cañon N. S.
and ascend N. slope of
cañon abruptly

28.53 Top of mesa on N.
bank of cañon and
Marked a malpais rock
in place 20x14x12 ins.
above ground with
standard iron to E.
17 N. W. 6 and 7 East
marked with a
cross at exact cor. point

4th Standard Parallel St. through
Chas. R. 7 E.

also the letters S. E.
with 0 notches on N. E. and
W. edges, and raised
a mound of stone
along side of
surface broken and
mountains.

Soil 3rd. note
Dwarf oak and cedar
brush.

4th Standard Parallel Cr. through
Chs. Range 6 E.

From the Standard Cr.
to Sp. 17 Cr. R. 6 and 7 E.
just notated by me.
Bore S. $89^{\circ} 30'$ W.
on a true line to
the S. Bound. of
Sec. 30.

40,00

Var. $13^{\circ} 42'$ E.
Set a sandstone 18×12
 $\times 8$ ins. 12 ins. in the
ground for ^{Stand} 14 Sec. ^{Stand} Cr.
marked S. Cr. "4 on
Cr. face and raised
a mound of stone
alongside.

59,00

Pit unfractured
Dug from near top
Cr. and S.

80,00

Set a sandstone $16 \times 8 \times 7$ ins.
11 ins. in the ground

4th Standard Parallel St.

Chains

for Standard Cor. to Sus.
 35 and 30 marked S. E.
 with 1 notch on E.
 and 5 notches on St.
 edges and raised a mound
 of stone alongside
 Pitt's unfractured
 from which a Pencil has
 8 ins. in diam. hrs.
 St. 58° E. 15 links dist.
 marked T. 17 St. R. 6 E.
 S. 36 B. S.
 No other trees within limits
 Surface monotonous
 Soil Exp. rate
 Dug a cats claw and
 cedar brush

St. 89° 30' N. on a true
 line on the S. Bound.

Through Range to E.

Chains

of Sec. 35

Va. 1842 E.

24.00

Descend

24.00

Foot of Mt. to S. S. S.

25.00

Cross dry wash 30 links
wide to S. and
ascend

40.00

Set a malpais rock

16x12x8 ins. 11 ins. in
the ground for ^{Stand} 1/4 ^{Stand} Sec.~~Stand~~ Cor. marked S. C. 14 on
N. face and raised a
mound of stone alongside
it; unpracticable

50.00

Set a sandstone

18x16x10 ins. 12 ins.

in the ground for

Standard Cor. to

Sec. 34 and 85 marked

S. C. with 2 notches on E.

4th Standard Parallel Chains

and 4 notches on N. edge; and raised a mound of stone along side. Pitts imperfect with Duran mountainous Soil ext. rate
 Dense undergrowth of catclaw and cedar

N. 59° 30' W. on a true line
 on the S. Bound. of Sec. 34
 Va. 13° 42' E.

- 10.50 ascend gradually
 Foot of mesa to. N. S. D.
 and ascend
- 26.82 Top of mesa to. N. S. D.
- 40.00 Top of a sandstone 15x14x8
 vis. 12 vis. in the
 ground for 1/4 Sec. 34
 loc. marked S. W.

St. through Range to E.
Chavis

114 on St. jaw and
raised a mound of
stone alongside.

Pib. *supra* in the
Cogg. *muca*

8000

Set a sandstone 24x12x5
ins. 18 ins. in the
ground for Standard Cor.
to Sec. 33 and 34
marked S. W. with
3 notches on E. and
St. edges. and
raised a mound of
stone alongside.

Pib. *supra* in the
Surface mountainous
Soil 4" th rate
Some grass

4th Standard Parallel
L.S.

N. 89° 30' W. on a true
line on the S. Bound
of Sec. 33
Va. 13° 42' E.

- 12.00 Descend from mesa
Foot of mesa
- 40.00 Set a caulkstone 18x12x5
ins. 12 ins. in the
ground for ^{Stand} 114 Sec. 33
marked S. C. 114 on
N. face and around
a mound of stone
alongside. Pit impracticable
- 44.16 Cross arroyo 30 links wide
Co. S.
- 60.56 Arroyo 20 links wide Co.
S. and ascend
- 65.20 Foot of Butte and ascend
- 68.10 Top of Butte and descend
- 70.00 Foot of Butte thence over

St. through Range 6 E.
 Sta

mountain ridge
 80,00 Set a sandstone 10x12x8
 in. 11 in. in the ground
 for marker. to Sta. 32533
 marked S. C. with
 4 notches on E. and 2
 notches on N. edges and
 raised a mound of
 stone alongside.
 Pit impracticable
 from which a pebble
 was 10 in. in diam.
 No. St. 42° N., 18 limbs
 dist. marked S. 170°, R. 6 E
 S. 32 B. S.

No other trees within limits -
 Surface more famous
 Soil 3rd. rate
 Dense undergrowth of
 manzanita & cedar brush

4 in. Standard Parallel
Ch.

N. 89° 30' N. on a true line
on the S. Bound. of
Sec. 32

24.13542 E.

24.40 Over ridges and gullies
Cross Parroyo 18 links
wide to S.

40.00 Set a sandstone 24x18x5
ins. 18 ins. in the ground
for Standard "4" Sec. 32.
Marked S. C. "4" on N.
face and raised a
mound of stone alongside
its manufacture
from which a pine
tree 5 ins. in diam.
to N. 300 N. 140 links dist.
marked S. C. "4" S. B. S.
There ^{no other trees within} along N. slope of
Butte.

N. through Range 6 E.

Ch.

0-000

Johnson's Butte top. S. of line
5 chains. 200 ft. high

8000

Set a sandstone 18x14x
5 ins, 12 ins. in the ground
for stand and corner.

to Secs. 31 and 32.
marked S. E. with
notches on E. and 1
notch on N. edge.

and raised a mound
of stone alongside.

Pit impracticable
Broom which a priori has
10 ins. in diam. top.

N. 240 E. 26 links dist.
marked S. 17 N. R. 6 E.

S. 82 S. S.

N. other trees within limits
Surface now low
Soil 2nd. and 3rd. rate

4th Standard Parallel Cr.
Ch.

Dense undergrowth of cedar
and cat's paw.

N. 89° 30' W. on a true
line on the S. boundary
of Sec. 31

va. 12° 42' E.

32.84

Descend gradually

32.84

Road to St. and S.

33.62

Cross arroyo 15' lumber
wide bet. N.E.

40.00

Set a sawstone 24x10x6 in.
18 ins. in the ground for
standard 1/4 Sec. 31. Mark
marked S. C. 114 on Cr.
face and raised a
mound of stone
alongside.

Not impracticable
from which a pinon

through Range 6 E.

Ch.

tree 5 ins. in diam.
 tree S. 15 links dist.
 marked S.E. "4 S. B. P.
 No other trees within limits

62.00

Begin to ascend steep
 mountain.

76.00

Top of mountain. tree.
 N. N. and S.E. and descend

80.00

Set a sandstone 24x10x3
 size, 18 ins. in the ground
 for Standard Cor. to Top
 17 N. Reg. 5 and 6 E.
 marked S.E. with 6 notches
 on N.E. and N. edges,
 and raised a mound
 of stone along side.
 Pit unfracturable
 Surface mountainous
 Soil 3rd, red
 Scattering cedar and juniper south

4th Standard Parallel - N. through
Range to E.
Chavis

I carefully examined
the adjustments of my
solar transit. To-day
particularly the latitude
and reversing
apparatus and found
them correct

X July 9th 1853

4th Standard Parallel cr. through
 the Range 5 E.

From the Standard
 Cor. to Tps. 17 N.
 R. 5 and 6 E. just
 established by run. I
 run $N. 84^{\circ} 30' W.$
 on a true line to
 the S. Bound. of
 Sec. 36

$Sa. 13^{\circ} 42' E.$

Descend

9.00 Foot of sandstone cliff hrs.

N. E. and N. W. and
 continue to descend mountain

40.00 Set a sandstone $14 \times 12 \times 5$
 ins. 9 ins. in the ground
 for Standard "4" Sec.
 Cor. marked S. E. "4" on
 N. face and raised
 a mound of stone
 alongside.

4th Standard Parallel
ds.

Pit impracticable
from which a pinon
tree 8 ins. in diam.
br. S. 40° W. 12 links
dist. marked S. E. 14
S. B. T.

41.10 Cross arroyo 15 links wide
60. S. and around

80.00 Set a sandstone
18x18x6 ins. 12 ins. in
the ground for Standard
Cor. to Sec 35 and 36
marked S. W. with
1 notch on E. and
5 notches on N. edge
and raised a mound
of stone alongside.

Pit impracticable
Simplex mountains

A. through Range 5 E.
Ch.

Set ind. v. etc
Scattering cedar and pine
brush

N. 89° 30' W. on a true
line on the S. Bound.
of Sec. 35
Va. 13° 42' E.

77°
844 Road to N.W. & S.E.
Cross arroyo 20 links wide
to S.W.

12.20 Trail to N.W. and S.E.
35.69 Cross arroyo 15 links
wide to S.W.

40.00 Set a sandstone 16x16x6
ins. 11 ins in the
ground ^{at least} 14 Sec. 35
marked S.E. 1/4 on N.W.
face, and raised a
mound of stone

4th Standard Parallel
Ch.

- alongside
 Pit impracticable
- 51.43 Cross array of 12 tufts wide
 to, N. and ascend
- 60.00 Deep valley and round
 mountain ridge
- 75.00 Top of mountain ridge to,
 N. and S. and
 descend
- 80.00 Set a limestone 14x10x6 ins,
 9 ins. in the ground
 for Standard Corner
 to Sec. 34 and 35
 marked^{SC} with 2 notches
 on E. and 4 notches
 on N. edges. and
 raised a mound of
 stone alongside.
 Pit impracticable
 Surface mountainous

Ch. through Range etc.

Soil Exp. note
Scattering cedar and pine
trunks

N. 89° 30' W. on a true
line on the S. Bound. of
Sec. 34

Ve. 101 42' E.

Down

- 10.28 Foot of sandstone bluff
23.62 Cross arroyo 20 links
wide Co. N. N.
39.72 Arroyo 10 links wide
Clear N. N. and around
40.00 Set a sandstone 16x10x6
ins. 1/2 ins. in the ground
for Standard "4 Sec. 34
marked S. Co. "4 on
N. face and raised
a mound of soil

4th Standard Parallel St.

Chs.

- along side. Pits impracticable
- 62.00 Foot of Huff and round
- 64.00 Top of Huff 100 ft.
- high fros. St. and S. and down
- 78.75 Cross arroyo 15 links
- wide W. St. St.
- 80.00 Set a sandstone 18x14x8
- ins. 12 ins. in the ground
- for Standard Cor. Pits fros.
- 33 and 34 marked S. S.
- with 3 notches on E. and
- N. edge and raised
- a mound of stone
- along side. Pits impracticable
- From which a cedar
- 16 ins. in diam. fros.
- St. 100 ft. 34 links, dist.
- marked S. 17 or R. 5 E.
- S. 34 B. S.
- No other trees within limits

through Range 5 E.
 No.

Surface mountains
 Soil red. oak
 Scattered cedar and pine trees

N. 89° 30' W. on a true
 line on the S. Bound.
 of Sec. 33

Va. 130 42' E.

Down over sandstone ridge.

26.66 Arroyo 10 links wide (less
 S. H. and round

32.00 Foot of mountain trees.
 S. and S. and round

40.00 Set a sandstone 36x18x6
 in 27 ins. in the ground
 for ^{stake} S. Cor. marked
 S. C. 14 on S. face and
 raised a mound of
 stone along side.
 Pit impracticable

4 ch Standard - Parallel
Ch.


From which a cedar
12 ins in diam. frs.
S. 64° W. 65 links dist.
marked S. C. 114 S, B. 5.
No other trees within limit

53.00 Top of mountain 28
ft. high frs. N. and S.
and descend

79.89 10000 across 15 ft. deep
80 fms wide frs. N. N.

80.00 Set a sandstone 36x24x18
ins. 27 ins. in the
ground for Standard cor.
to Squ 32 and 33
marked S. C. with 4 notches
on E. and 2 notches
on N. edge and
raised a mound
of stone alongside.

Dit' imp. noticable
Tois cor. on ledge of rocks

St. through Range 5 

From which a cedar 18
ins. in diam. trs. S. 54° N.
34 limbs dist. marked
S. 16 Cr. G. 56. S. 4 B. 8.
No other trees within limits
Surface mountainous
and broken

Soil 2nd. rate
Scattering cedar
Some grass

St. 89° 30' N. on a true
line on the S. Bound.
of Sec. 22
Va. 13° 42' E.

Bound

26.00

Top of sandstone cliff
50 ft. high. trs. N. W. S. E.
Oak creek trs. N. of
line about 12 chs. dist

4th. ³ Standard Parallel
Ch.

- 40.00 Set a malpais rock
16x10x8 ins. 11 ins. in
the ground for Stand
114. Sta. Cor. marked
S.C. 114 on N. face; and
raised a mound
of stone alongside.
Pike impracticable
From which a cedar 10
ins. in diam. - tr. S.
28 links dist. marked
S.C. 114 S.B. 5.
No other trees within limits
- 46.00 Top of mountain ridge
bet. N. and S. and around
cross arroyo 18 links wide
W. S. H.
- 71.19
- 80.00 Set a sandstone 18x12x6
ins. 12 ins. in the ground
for Standard Cor. to S. H.

N. through Range 5 E.
Chas.

31 and 32 ~~24 and 25~~ marked
S.E. with 5 notches on
East side of notch on bridge and
raised a mound of
stone alongside. Pit's imprac-
ticable
Surface mountainous and
broken

Soil 2nd E. out
Scattering cedar and pinon brush

N. 89° 30' W. on a true
line on the S. Bound.
of Sec. 31
Vn. 13042' E.

Descent

Enter valley to. N. N. & S. E.
Left bank of deep creek to. S. N.
Right bank of creek to. S. N.
and ascend from valley,

3.00

37

5.34

4th Standard Parallel
Ch.

- 28.00 Top of mountain to N. S. S.
and around
- 27.00 Edge of cliff to N. and S.
and around
- 40.00 A rock in place ~~5~~ x 3
x 2 ft. above ground
which I marked with
across at exact corner
point and S.L. "4 on
N. face, and raised
a mound of stone
abovside.
- Path impracticable
- 40.25 Foot of bluff to N. S. S.
- 42.77 Right Bank of oak creek
to N. 40° W. Deep Water
- 44.61 Left Bank of oak creek
- 62.21 Left Bank oak creek to N. S. S.
- 62.48 Right bank oak creek to S. W.
and around

St. through Range 5 E.

Ch.

80.00

Set a malpais rock 16x14x6
ins. 11 ins. in the ground
for Standard Cor. to Sta
17. St. No. 4 and 5 E. marked S. C.
with 6 notches on N.
E. and St. edges, and
raised a mound
of stone along side.

Path - impassable

Muddy high bluff very steep
Surface somewhat uneven
Soil 3rd. rate

Oak, Walnut and Sugarwood timber
along creek

July 12

4th Standard Parallel Cr. through
Ch.

From the Standard Cor.
to Sta. 17 Cr. Rs. 4 and 5 E
just established by me
I run cr. 89° 00' N. on
a true line on the
S. Bound. of Sec. 36

va. 130° 42' E

Acceud

30,00

Top of mountain fr. Cr. and S
and down

40,00

A malpais rock in place
3x2x 1 1/2 ft. above ground
which I marked with
a cross at exact cor.
point and S. Cr. 14 on Cr.
face and raised a
mound of stone
alongside.

Pit impracticable.

6-3.52. Cross - 60000 15 feet wide

Range 4 E.

No.

Loc. S.

77.53

80.00

improys 10 links wide to, S. E.
 Set a sandstone 16x12x6 ins.
 11 ins in the ground
 for Standard Mon. to
 Sec. 35 and 36 marked
 S. E. with 1 notch on E.
 and 5 notches on N.
 edges, and raised a
 ground of stone
 alongside.

Dist. imperat. cath

Surface mountainous
 Soil rocky 3rd. rate
 Scattering cedar brush

N. 89° 30' W. on a true
 line on the S. Bound.
 of Sec. 35
 Va. 13042 E.

4th Standard Cr. through
 Char

- 382
 18.00
 40.00
 71.00
 80.00
- Cross dry wash 40 links
 wide to S. and ascend
 ascend steep slope
 Hit a malpais rock
 18x14x8 in 12 in. in
 the ground for Standard 14
 Sec. Cor. mark it S. G.
 14 on N. face and
 raised a mound
 of stone along side
 Pit impracticable
 Top of mountain to N. of
 bend down
 Hit a limestone 24x20x6
 in. 18 in. in the
 ground for Standard
 Cor. to Secs. 34 and 35
 marked S. G. with
 2 notches on E. and
 4 notches on N. edge

Range 4 E. J. O. S. R. M.
Ches.

and raised a
mound of stone alongside
Pib. impracticable
Surface mountainous
Soil est. rate
Scattering cedar and
pale Chisli' brush
Some grass

St. 890 30' N. on a true
line on the S. bound.
of Sec. 34.
var. 13042' E.

15.72
36.00

Trail trs. St. and S.
Some cedar and pale Chisli'
brush

38.10

Entry valley trs. N. N. and S. E.

60.0

Set a sandstone 16x14x8
ins. 11 ins. in the ground
for ^{stand} 14 Sec. ^{stand} 100. marked

4th Standard St. through
Chs.

S. C. 14 on St. face;
and raised a mound
of stone along side.
Path impracticable

46.66

Cross barry 5-8 links
wide by S.E.

47.61

Trail brs. St. N. and S.E.

49.00

Leaver valley brs, St. N.
and S.E. shown along
St. slope of mt.

80.00

Set a malpais with
18x16x14 ins. 12 ins.
in the ground for
Standard cor. to Gye
33 and 34 marked
S. C. with 3 notches
on E. and N. edges;
and raised a mound
of stone along side.
Path impracticable

Range 4 E.

Super mountainous
Grand valley
Soil 2nd 3rd 4th
Scattering brush
July 19th 1883

N. 89° 30' W. on a true
line on the S. Bound.
of Sec. 33
Var. 13° 42' E.

Dugging

~~40.00~~ 00 Set a malpais rock
18x15x8 ins. 12 ins. in the
ground for Standard 114 Sec.
Cor. marked S. C. 114 on
N. face. and raised a
mound of soil alongside
Pits impracticable

Entry valley to N. N. and S. E.

80.00 Set a Plumbar 14x12x8
ins. 9 ins. in the ground

4th Standard Cr.
Ch.

for Standard Cor. to
Secs. 32 and 33 marked
S.E. with 4 notches on
E. and 2 notches on
N. edges, and raised
a mound of
stone alongside
Pike refracted
Surface mountainous
Drainage S. first two miles
Soil 3rd. rate
Scattering brush
Good grass

N. $89^{\circ} 30' N.$ on a true
line on the S. Bound.
of Sec. 32
Va. $130^{\circ} 42' E.$
Descending
Road to S.W. and S.E.

through Range 4 E.
Chs.

- 26.05 Road hrs. N. N. and S. E.
31.20 Mays 10 links wide to S. E.
area around
- 40.00 Set a sandstone 18x10x8
ins. 12 ins. in the ground
for Standard "4 Sec. Cor.
marked S. E. "4 on N.
face and raised a
mound of stone
alongside. Slightly impracticable
- 55.00 Leave valley for
N. N. and S. E.
- 70.27 Mays 15 links wide to
S. E. and ascend
- 80.00 Set a limestone 30x15x12
ins. 22 ins. in the
ground for Standard Cor.
to Sec. 31 and 32
marked S. E. with
5 notches on E. and 1 notch

449a

4 th Standard Cr.
Ch.

on N. edge, and raised
a mound of soil
alongside. Pitti impracticable
Mesa valleys mountains
Soil 2nd. 3rd. rate
Settling bush
Some grass

N. 59° 30' W. on a true
line on the S. Bound.
of Sec. 31
Va. 13° 42' E.
around

- 2.00 Top of mesa to N. S.
- 29.48 Cross arroyo 20 links
wide to S.
- 48.00 Set a line to 20x12x8.
in 15 arcs in the
ground for Standard
1/4 Sec. Co. marked

through Range 4 E.

Chs.

S. C. 14 on N. Jan
and raised a
mound of stone

- alongside. Pit impracticable

62.50

80.00

Approx. 15 hks wide to S.
Set a limestone 14x14x12
ins, 9 ins. in the ground
for standard cor. to

Apr. 17 N. R. 3 and 4
E. marked S. C. with
6 notches on N. E. & W.
edges, and raised a
mound of stone alongside,
Pit impracticable.

Surface mountainous
and broken

Dryish, S. W.

Scattering brush

July 13

4th Standard Cr.
Ch.

From the Standard
Co. to Sp. 17 Cr. Cr.
3. and 4. East just
established by me
I run S. 89° 30' W. on
a fine line on the
S. Bound. of Sec. 36
Ta. 130 42' E.

- 10,00 Descend from mesa
- 39,98 Cross arroyo 8 links wide,
top S. bound ascend
- 40,00 Set a limestone 14x12x6
ins. 9 ins. in the
ground for Standard 114
Sec. 36 marked S. Cr.
114 on N. face, and
raised a mound
of stone ... alongside.
Pike impracticable
- 48,00 Top of ridge to S. S. Cr.

through Range 3 E.
Ch.

50.00

and descend
Set a limestone 20x12x8
ins. 15 ins. in the ground
for Standard Cor. to
Secs. 35 and 36 marked
S.C. with 1 notch on
E. and 5 notches on
N. edges and raised a
mound of dirt alongside.

Is impracticable
From which a cedar
tree 8 ins. in diam.

to S. 84° E. 27 links
dist. marked J. 16 St.
R. 30 S. 1 P. J.

No other trees within limits
Lynx mountain
Soil 3rd rate

Scattering pale chestnut brush

4th Standard Parallel St.
Ch.

At 89° 30' N. on a true
line on the S. Bound.
of Sec. 35
Var. 13° 42' E.

16.53
43.00

Throws 15 links wide less S. N.
Set a limestone 18x12x8
ins. 12 ins. in the ground
for Standard 114 Sec. 114
marked S. C. 114 on
N. face. and raised a
mound of stone along side
bit impracticable

80.00

Set a limestone 18x14x8
ins. 12 ins. in the ground
for Standard C. of. to
Secs. 34 and 35 marked
S. C. with 2 notches on E.
and 4 notches on N.
edges. and raised a
mound of stone

through Range - 30
Ch.

alongside. Pit's impracticable
Surface mountainous
Soil 3rd. rate

Scattering cedar and
pole verde brush
good grazing

At 890 30' N. on a
hwy line on the
S. Bound. of Sec. 34.
Var 13042' E.
D mound

16.21 Arroyo 10 links wide W. S. N.
and mound

48.00 Set a limestone 16x10x5-
ins. 11 ins. in the ground
for Standard 114 Sec.
Cor. marked S. W. 114 on
N. face and raised
a mound of stone
alongside. Pit's impracticable

4th Standard Parallel
Ch.

80.00 On top of ridge and around
Set 10 sandstone
14x10x5 ins. 9 ins. in the
ground, for Standard Cor.
to Secs 33 and 34 marked
S.E. with 3 marks on E.
and N. edges, and raised
a mound of stone along side
It's impracticable
Surface mountainous and broken
Soil 3rd rate
Good grass
Some brush

At 89° 30' N. on a true line
on the S. Bound. of Sec.
33

Va. 100 40 E.

11.00 Old corral on hill
12.39 Old log house to S.

A. through Range 3 E.
 Chs.

- 16.54 of line 60 links
 Road to St. and S.
- 22.00 Leave foot hills of mountains
 and enter valley to
 St. N. and S. E.
- 23.89 Irrigating ditch No. 178 E.
 40.00 Set a sandstone 14x12x6
 in 9 in in the ground
 for ^{St. 114} Sec. Cor. marked
 S. E. 114 on St. face
 and raised a row
 of stone alongside,
 Rio impracticable
- 46.60 A cycamore tree on line
 10 in in diam. fork at
 the ground
- 47.80 Left bank of Rio
 Verde bet. St. S. E.
- 48.52 Right bank of Rio Verde Co
 to St. and S. E. and around

through Range, S.E.

34.00

42.00

Co. S.E. and around
 Top of st. wd of mesa
 and around the st. N. S. S.E.
 a rock in place 2x2x2 ft.
 above ground which I
 marked with a cross (+)
 at exact cor. point, found
 S.E. 1/4 on st. face. ~~and~~
 for Standard Sec. cor.
 and raised a mound
 of stone along side.

56.72

Pits were marked ^{from which} the
 same wash is in last half
 mile Co. N.E.

77.00

around S.E. slope

80.00

Set a limestone 18x14x12
 ins. 12 ins. in the ground
 for Standard cor. to Sec.
 31 and 32 marked
 S.E. with 5 notches on

1.510 ft. east, 2.100 mi. N. S. E.
 S. E. 1/4 of 1/4 of 1/4

54

4th Standard Parallel
Chs.

E. and 1 notch on N.
edges, and raised a
ground of stone alongside.
Pits unpracticable
Surface mountainous
Soil 3rd. rate
Scattering brush

N. $89^{\circ}30'$ N. on a true
line on the S. Bound.
of Sec. 31

7a. $130^{\circ}45'$ E.

Descend into cañon

25.48

Bottom of cañon 250 ft
below mesa top. E.

40.00

Set a limestone
 $14 \times 10 \times 6$ ins. 9 ins. in
the ground for Standard
114 Sec. Cor. marked
S. C. 114 on cr. face

St. through Range & Co.

and raised a mound of
stone alongside.

Pit unproductive

From which a piece
10 ins. in diam. to.

St. 88 links dist. marked
S. C. 114 S. B. S.

00 around N. E. slope of mesa.

00 Top of mesa top.

N. E. part S. N. and down

19 Among 18 links wide Co. S.

00 Set a malpais rock
18 x 12 x 8 ins. 12 ins. in

the ground for Standard

Co. to S. 17 of
R. 2 and 3. E. marked

S. C. with 6 notches
on N. E. & N. edges

and raised a mound
of stone alongside

4th Standard Parallel N.
 Sec. through Range 8 E.

Not impracticable
 Surface mountainous
 Soil 3rd. rate
 Scattering cedar and pine
 Dense under growth

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

July 11th 1883.

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

J. B. McLaughlin
 July 11th 88

4th Standard Parallel N.
 through Range 2 C.

From the ^{Standard} Cr. to the
 17 St. P.S. 2 and 3 East
 just established by
 me, down Cr. 89° 20' N.
 on a true line on
 the S. Bound. of
 Sec. 36

Va. 13° 45' E.

Dug out

7.75

Cross arroyo, 15 links wide
 Co. S. E.

5.85

Cross arroyo, 20 links
 wide Co. S. E.

4.00

Set a limestone 24x12x8
 ins. 15 ins. in the ground
 for Standard 114 Sec. Cr.
 marked S.B. 44 on
 N. face and raised
 a mound of stone
 alongside, ^{the}
 impracticable

4th Standard Parallel N.
Co.

41.00

Grass area 15 links wide
Co. S. E. and would

80.00

Set a malpais rock
16 x 14 x 5 ins. 11 ins. in
the ground for Standard
Co. to Sec. 35 and 36
marked S. E. with
notch on E. end
5 notches on N. edge
and raised a mound
of stone alongside.
Dike, impenetrable
Surface mountain ridges
and gulches
Soil 2nd rate
Scattering cedar and
pines
Dense undergrowth

Through Range 2 East

N. 89° 30' W. on a
true line on the S. Bound.
of Sec. 35
to 130 45' E.
Cave

4.00

Top of mountain to
N. W. and S. E. and thence
over same

9.00

Down from mountain

33.00

Foot of mt. to N. W. & S. E.

33.57

Bottom of canon to S.
a foot 400 ft. below top
of mountain.

40.00

Set a candlestick 18x2x8
ins. 12 ins. in the ground
for Standard "4" in floor.
Marked S. E. "4" on W.
face and raised a
mound of stone
along side. Pit impracticable

4th Standard Parallel
Ch.

6000 Top of mountain to
N. W. and S. E., and
around

8000 Set a malpais rock
18 x 14 x 6 ins. 12 ins. in
the ground for Standard
C. on the S. side 34 and 35
marked S. C. with 2
notches on E. and 4 notches
on N. edges. and raised
a mound of stone alongside.
It is impracticable
to see mountains
from rocky end. etc
Scattering cedar and piñon
brush

S. 89° 31' N. on a line
line on the S. Bound.
of S. 34

Cr. through Range 2 E.
The

T. 13° 45' E.

Dismount

- 14.00 Trail to cr. N. S. E.
- 16.00 Cross arroyo 20 links
wide to S. E.
- 22.00 Cross arroyo 30 links
wide. to S. E. ascend
- 87.00 Top of divide ascends to the S.
and descends to the N.
to cr. and S. and descend
- 49.00 Set a lunstone
10x14x8 ins 11 ins. in
the ground for ^{stand} S. E. ~~MAX~~
- 67.24 Cr. marked S. E. 14.00
N. face and raised
a mound of stones
alongside. Pit's ⁴⁰ _{ins.} wide
across dry wash ⁴⁰ _{ins.} wide
any ground
- 1000 Set a lunstone 20x14x8

4th Standard Parallel Chs.

ris. 15 ris in the
ground for Standard
Plan to Secs. 33 & 34
marked S. to with
3 notches on E. and N.
edges, and raised a
mound of stones
along side. It's impracticable
to make a mountainous
top End. note
Scattering cedar and juniper

N. $89^{\circ} 30'$ W. on a false
line on the S. Bound.
of Sec. 33

22.80 Va. $13^{\circ} 45'$ E.
Cross arroyo 26 limits
wedge of Sec. 33, and around
40.00 Set a malpais rock
16x12x5 ris. 11 ris. in

N. through Range 2 E.
 No

the ground for Standard
 44 Sec. 20. marked
 S. 114 on N. Sec. and
 raised a mound
 of stone alongside.

40.72 Pits impracticable
 40.72 Cuts of bluff; and several
 cross arrays 40 links
 wide to N. E.

78.00 Cross arrays 25 links
 wide to N. E.

80.00 Set a timberline 14x12x6
 ins, 9 ins. in the ground
 for Standard Cor. to
 Sec. 32 and 33 marked
 S. E. with 4 notches on
 E. and 2 notches on N.
 edges and raised a
 mound of stone alongside
 Pits impracticable

4th Standard Parallel

Chs.

Surface mountainous
Soil red, calc
Scattering cedar and pine on
small juniper growth

St. 590 30' N. on a true
line on the S. Bound.
of Sec. 32.
Va. 130 45' E.

4200

Dugwell
Set a sandstone 14x2x8
ins. 9 ins. in the ground
for 44 Sec. Stand. Cor. marked
S. C. 44 on N. face and
raised a mound of
stone along side.

Pits impracticable

60.10

Cross dry wash 40 links
wide from S. N.

71.70

Cross dry wash 60 links

N. through Range 2 E.
Ch.

8000

wide 40 N. W.
Set a lumber pit 20x14x10
ins. 15 ins. in the ground
for Standard Wood to
Sec. 31 and 32 marked
S. E. with 5 notches
on E. and 1 notch on
N. edges. and raised
a mound of soil
along side. Pit impracticable
Surface mountainous
Soil Fert. rich
Scattered cedar and pine
Dense undergrowth

N. 89° 30' W. on a
true line on the
S. Bound. of Sec. 31
S. 10° 45' E.
Duced

4th Standard Parallel

Chs.

- 21.00 Bottom of cañon cor. N. W. ^{1/4} ⁸ corner
- 27.00 Top of mountain ridge
bet. N. and S. lower cañon,
and descend
- 35.59 Cross dry wash 5-5 links
wide Cor. N. E.
- 40.00 Set a metal pin ^{rock} 6x12x8
ins. 11 ins. in the ground
for Standard 14 Sec. cor.
marked S. E. 1/4 on
N. face and raised
a mound of stone
along side. Pit imperceptible
- 48.00 Cross dry wash 5-5 links
wide Cor. N.
- 58.00 Set a sandstone 18x12x8
ins. 12 ins. in the
ground for Standard
Cor. to Sp. 17 N. R.
1 and 2 E. marked

N. through Range & E.
do.

S. L. with 6 notches
on N. E. and N. edge
and raised a mound
of stone alongside
Pip. unpracticed
Hill as mountainous
Soil Erd. ratly
Scattering brush
Some grass
Country drains. S.

4th Standard Parallel Cr.
Chs.

From the ^{Standard} Mer. to
Sp. 17^{ast.} Co. 1 and 2
E. Just Established
by me. I run
* Sp. $89^{\circ} 30'$ N. on a
true line on the
S. Bound. of Sec. 26
Var. $10^{\circ} 45'$ E.
D. sound

- 24.45 - Cross arroyo 40 links wide
Co. N. N. and sound
- 27.00 Top of ridge hrs. N.
and S. end sound
- 40.00 Set a sandstone $24 \times 24 \times 6$
ins. 18 ins. in the ground
for Standard 114 Sec. Cor.
marked S. C. 114 on
N. face and raised
a mound of stone
along side, Pits impracticable

Through Range 1 E.

- 40.40 Wash 90 links wide E. N.
- 49.30 Cross arroyo E. N. E. 30
links. 7 wide
- 78.00 Cañon 80 links wide
E. N. E.
- 80.00 Set a milpais rock
16 x 12 x 4 ins. 11 ins
in the ground for
Standard Cor. to Secs.
35 and 36 marked
with 1 notch on
E. and 5 notches on
N. edge. and raised
a mound of
stone alongside.
Pit impracticable
Surface mountainous
Soil Ind. rate
Scattering cedar and
pino
Dune undergrowth

4th Standard Parallel. Cr.
Co.

N. 89° 30' W. on a true
line on the S. Bound,
of Sec. 35
Va. 130 45' E.

Descending

40.00

Set a sandstone 18x4x8
ins. 12 ins. in the
ground for Standard
114 Sec. 35. marked
S. 6. 114 on Cr. face
and raised a mound
of stone alongside,
its impracticable

From which a cedar tree
8 ins. in diam. bro.

N. 82° W. 74 links dist.
marked S. 6. 114 S. & P.

No other trees within limits

42.00

Arroyo 45 links wide
Co. Cr.

Through Ranges 1 E.

Ch.

52.00 Arroyo 50 links wide W. Ct.
 80.00 Set a limestone 14x12x12
 ins. 9 ins. in the ground
 for standard Cor. to
 Secs. 34 and 35 marked
 S.E. with 2 notches on
 E. and 4 notches on
 N. edges and raised
 a mound of stone
 alongside. It's impracticable
 surface mountainous on
 both sides of line
 Soil 2nd. rate

Thinning cedar and pine
 Dense undergrowth

Ct. 890 30' N. on a true
 line on the S. Bound.
 of Sec. 34
 Va. 130 45' E.

4th Standard Corral ... N.

Ch.

- 2.34 Arroyo 36 links wide Cor.
N. and around
- 12.64 Arroyo 42 links wide
Cor. N. E. and around
- 40.00 Set a limestone 24 x 12 x 4
ins. 18 ins. in the
ground for Standard
114.00 Cor. marked
S. E. 114 on N. face
and raised a mound
of stone alongside.
Pits impracticable
- 42.00 Top of ridge hrs. N.
and S. and descend
- 53.00 Woods arroyo 25 links
wide Cor. N.
- 80.00 Set a limestone 18 x 12 x 4
ins. 12 ins. in the ground
for Standard Cor. to
S. 105. 23 and 24

High Range (E.)
Ch.

marked S.E. with 3
notches on E. and N.
edges, and raised a
ground of about
along side. Cuts unapproachable
Terra mountainous
Soil 2nd. rate

Scattering cedar & pine
Dense undergrowth

N. 89° 20' W. on a true
line on the S.
Boundary of Sec. 33
Va. 18° 45' E.

29.00

Dwelling

30.32

Road to N. and S.

34.54

Road to N.E. and S.W.

38.12

Cross arroyo 40 links
wide less N.E.

40.00

Set a limestone 14x12x4

4th Standard Parallel St.
do

ins. 9 ins. in the ground
for Standard "4 Sec. Cor,
marked S. C. "4 on N.
face, and raised a
mound of stone along side,
Pits impracticable

8000

Set a Quartz rock
15 x 12 x 8 ins. 10 ins. in
the ground for Standard
Cor to Sec. 32 and 33
marked S. C. with
4 notches on E. and 2
notches on N. edge,
and raised a mound
of stone along side,
Pits impracticable
Surface mountainous
Soil 25" rate
Scattering cedar and birch
Dense undergrowth

Through Range 1 E.
Ch.

N. 89° 30' W. on a true
line to the S. Bound.
of Sec. 32

40.00 Va. 130° 45' E,
A rock in place 10x6x4
ft. above ground which
I marked with a
cross (+) at exact cr.
point and S. 6. "4 on
E. face. for Standard
114 Sec. 32. and
raised a mound
of stone alongside.
This mound

57.00 Top of mountain to S.
N.W. and S.E. and
down

70.00 Begin to ascend slope of
mountain

80.00 Hit a malpais rock

4th Standard Parallel of
Chs.

18 x 12 x 6 ins. 12 ins.
in the ground for Stand.
Co. to Aug. 31 and 82
marked S. C. with 5
notches on E. and 1
notch on N. side,
and raised a mound
of stone alongside
Pit imperceptible
From which a cedar
tree 6 ins. in diam.
hs. S. 12° E, 104 links
dist; marked S. 16 N.
R. 1 E. S. 5 W. S.
No other trees within limits
Surface mountainous
Soil red. rate
Scattering cedar and pine
Some grass

through Range 1 E.

N. 89° 30' W. on a true
line on the S.
Bound. of Sec. 31

Sa. 12° 45' E.
Dip from mt. ridges
3000
Kamin' l. of 34° E
and sound

4000

Set a post 3 ft. long
2 ins. sq. with marked
stone 12 ins. in the
ground for Standard
"4 Sec. floor marked
S. C. "500' of face
from which a
pinion tree 8 ins. in
diameter trs. N. 60° E. 19
links dist. marked S. C.
"4 S. B. C.

A Cedar 18 ins. in diam
trs. N. 35° W. 80 links

4th Standard Parallel N. through
Ch. Range, E.

Dist: marked S.C.
"4 S. B. S.

64.00

Top of mountain ridge
top of N. and S. and
descend through scattering
pine

80.00

The ^{Standard} Cor. to Top
17 N. B. S. E. and
N.

Surface monotonous
Soil Evid. rate
Scattering cedar and pine

I carefully examined
the adjustments
of my polar ^{transit} ~~telescope~~
to-day particularly
the latitude and
reversing apparatus
and found them correct
J.B. McLaughlin July 12th 1883.

4th Standard Parallel N. through
Co. Range 14 E.

From the Standard
Cor. to Twp. 17 N.
R. 14 E. to 15 E. and
recently described by me.
I run S. 85° 43' N.
on a true line over
the S. Bound. of.
Sec. 36

Va. 13° 45' E.

Dredging

400.0
Set a malpais rock
16 1/2 x 8 ins. lying in the
ground for ^{Standard} 14 Sec. Cor.
marked S. C. 14 on N.
face and raised a
mound of stone
alongside. Pit impracticable
Foot of mesa
80.00
Set a limestone 18 x 14 x 4
ins. 12 ins. in the ground

4" Standard Parallel, No. through
do.

for Standard Cor. to
Secs. 35 and 36
marked S.E. with 1
notch on E. and 5
notches on N. edges
and raised a mound
of stone along side.
Pits unfordable
Dune sides bush
Surface rough and rolling
Soil 3rd. rate X

S. $85^{\circ} 43' N.$ on a true
line on the S. Bound.
of Sec. 35
N. $130^{\circ} 45' E.$

Over rolling surface
40.00 Set a sandstone 18×16
 $\times 6$ ins. 12 ins. in the
ground for Standard

Range 14 E.
 80.00

14 Sec. Cor. marked
 S.C. "4 on N. face
 and raised a mound
 of stone along side
 Pit - unproductive
 Set a sandstone 16x12x8
 ins. 11 ins. in the ground
 for Standard Cor.,
 to Secs. 34 and 35
 marked S.C. with
 2 notches on E. and
 4 notches on N. edge,
 and raised a mound
 of stone along side,
 Pit - unproductive
 Surface rolling
 Soil 3rd. Grade
 Dense cedar brush

4th Standard Parallel
Ch.

S. 85°43' N. on a true
line on the S. Bound
of Sec. 34
20°45' E.

Over rolling or nearly level surface
4000 Set a sandstone 12x8x6
ins. 8 ins. in the ground
for Standard 14 Sec. 30.
marked S. C. 14
on N. face and
raised a mound

of stone alongside,
8000 *Fib. Juniperifera*
Set a sandstone 12x10x4
ins. 8 ins. in the
ground for Standard
Cor. to Secs. 33
and 34 marked S. C.
with 3 notches on E,
and N. edges, and
raised a mound of

A. through Range 14 E.
Ch.

stone alongside,
Pity impracticable
Surface level
Soil sub. gate
D use Cedar brush

S. $85^{\circ} 43'$ N. on a true
line on the S. Bound.
of Sec. 33

On $120^{\circ} 45'$ E.

Over level surface

4000

Set a post 3 ft. long 3 ins. diam with marked
stone, 12 ins. in the ground ^{Standard}
marked ⁵⁰ 2 N. and 12
ins. E. and N. of post 2 ft. high
a mound of earth 12 ft. high
post.

8100

Set a post 4 ft. long
4 ins. diam with
marked stone 12
ins. in the ground

4th Standard - Parallel St.
Chs.

for Standard Cor.
to Srs. 32 and 33
marked S. C. S. 17 St.,
R. 14 E. on St.

S. 33 on E. and
S. 32 on N. face. with
4 nolets on E. and 2
nolets on N. face;
dry pit 18x18x18 ins.
On E. and N. of post,
5 1/2 ft. dist. and
raised - a mound
of earth 2 ft. high
4 1/2 ft. base around post.
Surface level
Soil 2nd. and 3rd. rate
Dwarf cedar bush

S. 85° 43' N. on a
true line on the

through Range 14 E.
 100

S. Bound. of Sec. 32

Va. 13045 E.

Over level surface

40.00

Set a sandstone 18x14x6

ins. 12 ins. in the

ground for Standard 44

Sec. Cor. marked

S.C. "4 on 11 feet

and raised a mound

of stone, alongside.

Pit impracticable

42.00

Centre of deep arroyo

6 Ch. wide to S. E. x

80.00

Set a sandstone 12x12x6

ins. 8 ins. in the ground

for Standard Cor.

to Secs. 31 and 32

marked S.C. with 5

notches on E. and 1

notch on N. edge.

4th Standard Parallel St.
do.

and raised a mound
of stones alongside
Pipe ~~impracticable~~
Surface level and broken
Soil 3rd. rate
Dense Cedar brush

S. $85^{\circ} 43' N.$ on the
S. Bound. of Sec. 31
T₄, R₁₀ 43' E,
Over level surface

40.00

Set a ^{standard} sandy stone, 14 x 18 x 5 ins. 9 ins.
in the ground for 2 Sec. Cor. ~~S. E.~~ on St.
Line, dug pit 75 x 18 x 12 ins. E. and N.
of stone 2 ft. dia. and raised a mound of earth
14 ft. high 31 ft. base alongside.

from which a pine
tree 10 ins. in diam
to S. 430 E. 28 links
dist. marked S. E. "4 S. B. S."
No other trees within limits

Through Range 14 E.

5000
 11 x 10 x 8 ins. 8 ins. in
 the ground for. Stand.
 Co. to Sp. 17 N. Co. 13
 and 14 E. marked S. E.
 with 6 notches on N. E. & N.
 edges. dug pits 24 x 18 x 12
 ins. V-shaped on
 each line N. E. and N. of
 stone 6 ft. dist and
 raised a mound of
 earth 2 1/2 ft. high 5 ft.
 long along side.
 Surface level
 Soil 3rd. rate
 Dense cedar brush

4th Standard Parallel N. through
Chs.

From the Standard W. to
to Tpe. 17 N. Rs. 13 and 14
E. just established by me
I run S. 85° 48' N. on
a true line on the
S. Bound. of Sec. 30
Va. 13° 45' E.

Over level surface.

40.00

Set a sand stone 20 x 8 x 5 ins. 15
in the ground for ^{North} Sec. 30 on N.
face, due N. 12° E. N. 12° E. N.
of stone 21. 12 ft. 6 in. N. 12° E. N.
12 ft. high 21 ft. 6 in. diameter.

80.00

Set a sand stone 12 x 8 x 6 ins. 5
in the ground for ^{North} Sec. 35 - mus 6
with 5 notch to N. 12° E. N.
dig 12 ft. 6 in. N. 12° E. N. of stone shaft.

Surface level
Soil 2 in. oak
Dune cedar undergrowth
July 13th

Range 13 E
Chs.

S. 85° 43' N. on a true
line on the S. Bound,
7 Sec. 35

Ca. 18045' E.

Over level surface

4000

Set a sandstone 18x8x5
ins, 12 ins. in the
ground for Standard 14
Sec. No. marked S.C.
"4 on N. face, and
raised a mound of
stone alongside.

Pits impracticable

8000

Set a ^{South} sandstone 14 12 4 9
the ground for to S. 34 5 35

S.C. with 4 notch ⁱⁿ N. 2 W

dug pits 18 x 18 x 12 in N.E. & N. dist.
dist. and raised a mound of stone 4 ft. high,
4 ft. base, alongside.

Surface level

Soil 2nd. rate

Dense cedar and pines brush

4th. Standard Parallel N.
do

S. $85^{\circ} 43'$ N. on a true
line on the South Bound,
of Sec. 34
Va. $12^{\circ} 45'$ E.

Over level surface

40.00

Set a sand stone $16 \times 10 \times 6$ ins. 11 ins.
in the ground for $\frac{1}{2}$ Sec, Cor, marked S.E. N.
face, dug pits $18 \times 18 \times 12$ ins. S. and N.
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.

63.24

Set a sandstone $14 \times 12 \times 6$
ins. 9 ins. in the ground
for Standard Cor. To Spc.
 17° N. 80° , 12° and 10° E.
marked S.E. with 6
notches on N.E. and N.
edges. dug pits $24 \times 18 \times 12$
ins. crosswise on line
N.E. and N. of stone 6
ft. dist. and raised a
mound of earth $2\frac{1}{2}$ ft.

91
 through Range. 10 E.
 No.

high 5 ft. tree alongside.
 Surface level
 Soil 2nd. rate
 Some cedar and fewer trees

July 29th 1888.

4th Standard Parallel

Chs.

From the Standard Cor.
to Sp. 7 N. R. 12 & 13
E. just established by me.
I run S. $85^{\circ} 43' N.$ on a
true line on the S.
Boundary of Sec. 86
Va. $130^{\circ} 45' E.$

Over level surface

40,00

Set a sand stone, $16 \times 12 \times 6$ ins., 1" ins.
in the ground for $\frac{1}{2}$ Sec. Cor. marked $\frac{1}{2}$ on N.
face, dug pits $18 \times 13 \times 12$ ins. E. and N.
of stone 51 ft. dist. and $\frac{1}{2}$ mile $\frac{1}{2}$ mile of earth
14 ft. high. 81 ft. base.

From which a fence
was 11 ins. air chain.
to N. $18^{\circ} N.$ 12 Chs.

dist. marked S. 6, "4 S. B. 5
No other trees within limits

80,00

Set a limestone $16 \times 14 \times 8$
ins. 1" ins. in the ground
for Standard Cor. to

N. through Range 12 E.
ch.

Secs 35 and 36 marked
S.E. with 1 notch on E.
and 5 notches on N. edge
and raised a mound of
stone alongside.

Soil imperfect

Surface level

Soil 2nd. rate

Dwarf cedar and pinon brush

good grass

S. 85° 43' N. on a true
line on the S. Bound.
of Sec. 35
T₄N. 130° 45' E.

Over rolling surface

12.25
4000

Rough to V.C.E. and S.W.

Set a limestone 30 x 18 x 14 ins.
27 ins. in the ground for
Standard "4 Sec. 35.

94
4th Standard Parallel
Co.

marked S. C. "4 on N.
face and raised a
ground of stone
alongside. Pit impracticable
from which a Pison tree 12 ins. in diam.,
w. 27 links dist
marked S. C. "4 S. B. 5.
Other trees within limits

43.00

78.00

80.00

Ravine Co. N, 100 N.

Ravine Co. N, E.

Set a limestone 20 x 14 x 8
ins. 1.5 ins. in the ground
for Standard Co. to use.

34 and 35 marked S. C.
with 2 notches on E. and
4 notches on N. edge.
and raised a ground

of stone. Alongside.
Pit, impracticable
Surface rolling

N. through Range 12 E.
Sh.

Soil 2nd. rot
Dune cedar and pine wood

Set 0.43' N. on a true
line on the S.
Bound. of Sec. 34
On 100 40' E.

Over rolling surface

4,000

Set a ^{stone} limestone, 18 x 12 x 8 ins., 12 ins.
in the ground for ^{stand.} $\frac{1}{4}$ Sec, Cor, marked $\frac{1}{4}$ on N.
face, dug pit 18 x 18 x 12 ins. E. and N.

8,000

Set a limestone 18 x 14 x 8 ins.
12 ins. in the ground
for Standard Cor. to
Sec. 33 and 34 marked
S.C. with 3 notches on
E. and N. sides and
raise a mound of.

Stone alongside, ^{the} impractical
acceder to 5 ins. in diam. ^{to} N. 35' ^{to}
80 the dist. marked S, 17 N, R, 12 E, S, 33 R.

The other trees in limits

4th Standard Parallel

Chas. Foster here within limits

Surface rolling

Drift sand. rock

Dense cedar and pine brush

S 85° 43' N. on a true
line on the S. Bound.
of Sec. 33

Va. 13045' E.

Over rolling surface

40.00

Set a limestone 16 x 12 x 5
ins. 11 ins. in the ground
^{1/4 in.} for Standard Cor. marked
S. C. 4 on Cr. face, and
raised a ground
7 stone alongside.

7 Pile and back to the

49.00

Arrays 10 links wide Cr. N. 10° E.

80.00

Set a limestone 24 x 18 x 6
ins. 18 ins. in the ground
for Standard Cor. to

St. through Range 12 E.
Ch.

Sws. 32 and 33 marked
S.E. with 4 notches on E,
and 2 notches on N.
edges and raised a mound
of stone along side.

Site impracticable

From which a pinon 78
ins. in diam. Az. N. 34° E.

169 links dist. marked

S. 17 N. R. 12 E. S. 33 B. S.

A pinon 10 ins in diam.
Az. N. 41° N. 120 links dist.

marked S. 17 N. R. 12 E.

S. 32 B. S. Az. other
trees within limits

Surface level

Soil - sub. rate

Dense undergrowth of
elder and pinon bush

4th Street. Parallel
 S.

S. 85° 40' N. on a true
 line on the S. Bound.
 of Sec. 32

40.00

No. 12° 45' E.
 Very gently rolling surface
 Set a maffair rock
 18 x 10 x 4 in. - 12 in. in
 the ground for Standard
 14 (Sec. 32) marked
 S. C. 14 on N. face
 and raised a mound
 of stone along side.
 Pit impracticable
 From which a star
 8 in. in diam. to S.

S. 74° N. 8 links det.
 marked S. C. 14 S. B. S.
 As the tree within limit
 Foot of mesa for N. and S.
 and of record.

66.00

N. through Range 12 E.
 No.

80.00

Set a metal pin rock 14x14x
 8 in. in the ground for
 Standard Co. to Secs,
 31 and 32 marked S. 1/2
 with 5 notches on E. and
 1 notch on N. edge, and
 raised a mound
 of stone along side.

Rip unpracticable
 Surface rolling
 Soil det. Orite

Down cedar and pine on track

S. 85° 43' N. on a true
 line on the S. Bound.
 of Sec. 31
 No. 13° 45' E.

Round

18.00

Top of mesa fr. N. and S.
 there over 1000 ft

4th Standard Parcel
Ch.

40.00

Set a marble rock
18 x 12 x 5 ins 12 ins. in
the ground for Standard
"4 cor. marked S.C.
"4 on N. face and
raised a mound of stone
alongside. Pit opposite the
flom which a cedar
tree 7 ins. in diam. to N.
10° N. 24 links dist.
marked S.C. "4 S. B. S.

65.00

No other trees within limits
89 links N. of line is a
cor. marked S.C. on N.
with 4 notches on N. and
2 notches on E. also a
cor. S. of line marked
"4

80.00

The Stand. cor. to Sp. 17 N.
Co. 11 and 12 E. which

A. through Range 12 E.

was mostly denuded ground.
 Surface gently rolling
 Soil 2nd. rate
 Dense cedar and spruce
 brush.

I carefully examined
 the adjacent
 my notes tonight to-day
 particularly the latitude
 and bearing apparatus
 and found them
 correct
 July 23rd 1883.

For final entries
 See Book No 8