

1303

3^d Standard
No. 1303 BOOK 1303

Resurvey

4-671

FIELD NOTES

GENERAL LAND OFFICE.

3rd Standard Parallel North.

Through

R's 11-124-13 E.

In Resurvey by Cortzen (in 1900)
Thru R 11 E this package

✓

No. 1303

Field Notes
 of the resurvey of the
 Third Standard Parallel
 North

through Ranges 11.12 ^{and 13} E
 of the

Gila and Salt River base
 and Meridian
 in the

Territory of Arizona
 as surveyed

by Daniel Drummond
 U.S. Deputy Sur.
 Under his Contract #28. dated Feb'y 7/93

Survey Commenced July 1. 1893.

Survey Completed July 8. 1893

Index

3rd Standard Parallel.
through.

Range	11 East	13
"	12 "	27
"	13 "	43.

INDEX.

31.	32.	33.	34.	35.	36.
13.	16.	18.	21.	23.	26.

R. 11. E.

31.	32.	33.	34.	35.	36.
28.	31.	34.	36.	39.	41.

R. 12. E

31.	32.	33.	34.	35.	36.
43.	46.	48.	50.	52.	56.

R. 13. E

Cor. reestablishment
described on page 12

Resurvey of the third Standard

Survey Commenced July
1. 1893. with a Gurley
light mountain transit
with Solar Attachment.
Vertical Arc, 6 inches
in diameter. reading to
30" long level on telescope.
Plate $6\frac{1}{2}$ inches in
diameter. two Verniers
to limb. reading to one
minute (1') of arc. —
Needle 4 inches long.
radius to Solar apparatus
5 inches long. with dec-
lination arc. reading to
30". Stop on Vertical
Arc. to regain latitude
Monius for setting off
Variation of the Needle.

Parallel N. through Rs. 11, 12, & 13. E.

Stadia wires in telescope
all in complete and
perfect adjustment.

Two new Steel brazed
Chains No. 12, 50 links,
one Steel Chain, as above
100 links, one Chesterman
Steel tape measure 100
links in length, as a
field Standard, —

Two Sets of Marking
tally pins, Steel, 14
inches long, 3 timber
scribes, or Marking Irons,
and 8 Steel Chisels.

At the Standard Cor.
to Tps. 13. N. Ranges 10^{and}
11. E. in Lat. $34^{\circ}28'40''$
N. Long. $111^{\circ}13' W.$

Resurvey of the third Standard

At $12^h 43^m$ local mean
 Solar time by my watch
 which is correct. I observe
 Polaris at its eastern
 Elongation, and find its
 magnetic bearing to be
 $N 12^{\circ} 8' W$.

N end of Needle. $12^{\circ} 8' E$

Azimuth for Lat. $1^{\circ} 32' E$

The Sun is the Va. $13^{\circ} 40' E$

I lay off the Azimuth
 to the West, and mark
 the true Meridian so.
 determined, by driving a
 peg. 5.00 chs. W. of the Cor.

Parallel. N. through Rs. 11, 12 & 13 E

At. 6 A.M. July 1. 1893.

I find the magnetic bearing of the line established last night to be $N 13^{\circ} 40' W$. therefore the variation is $13^{\circ} 40' East$.—

Guiding the Standard Cor. to Sp. 13. N Rs. 10^{2d} & 11 E was a post greatly decayed, and marks nearly obliterated, and the witness trees not in accord with the field notes furnished by the Surveyor General. I reestablish this Cor. as follows, in exact original position Set a Red Sandstone $20 \times 14 \times 6$

5

Resurvey of the third Standard

chs. inches 15 ins. in the ground
 for Standard Cor. to Tps. 13
 N. R. 10th & 11 E, marked
 S.C. on N. with 6 notches
 on N. Erd & W faces. Whence
 A Pine 15 ins. diam. bears
 N 45° E 35 lks. dist. marked
 T. 13. N. R. 11 E. Sec. 31. B. Y.
 A Pine 14 ins. diam. bears
 N 52° W 95 lks. dist.
 marked T. 13. N. R. 10 E. Sec 36. B. Y.
 A Pine 8 ins. diam. bears.
 S 46° W 35. lks. dist. marked
 Tps. 13. N. R. 10 & 11 E Secs 31 & 36.
 S.C. B. Y.

From Thence I run
 East on a random line
 Va. 13° 46' E

40.52 1/4 sec Cor. bears North 13 lks.

Parallel N. through Rs. 11, 12 & 13, E.
chs.

81.07	Sec. Cor. brass. N. 25.	lks. dist.
121.17	1/4 Sec. Cor. brass N. 40.	" "
162.57	Sec. Cor. brass. N. 51.	" "
202.37	1/4 Sec. Cor. brass. N. 64.	" "
243.29	Sec. Cor. brass. N. 78.	" "
285.23	1/4 Sec. Cor. brass N. 90.	" "
325.55	Sec. Cor. brass. N. 104.	" "
365.65	1/4 Sec Cor. brass. N. 118.	" "
405.70	Sec. Cor. brass. N. 130.	" "
446.15	1/4 Sec. Cor. brass. N. 142.	" "
486.78	Cor. to Sps. 13 N. Rs. 11. ^{2d} 12 E	
	bring A ¹⁰ ^{ins.} ^{dipm.}	
	brass. N. 156	links dist.

The foregoing corners on
the 3^d Standard Parallel
N. through Range 11 E.
are much decayed.
and marks nearly oblit-
erated. and the witness
trees in no instance

Resurvey of the third Standard
Conform to the field
notes furnished me
by the Surveyor Genl.
And unless I retraced the
third Standard Parallel
N. it would be difficult
and well nigh impossible
to fix the exact locus of
the old corners. - For the
proper prosecution of
my work, I deem it
absolutely necessary to
retrace and resurvey the
third Standard Parallel
N. through Ranges
11, 12, and 13 East. I
find the same is not
run due East, nor are
the Cors. in alignment, or dist.

July 1st 1893

Parallel N through Co. 11, 12 & 13, E.

From the Standard Cor.
to Tps. 13 N Rs. 11 & 12, E.

A Pine 10 ins. diam.

which I mark and re-
establish as follows.

Tps. 13 N. S. C. on N.

R. 12 E Sec. 31 on E. and

R. 11 E Sec. 36 on W sides

with 6 notches on N. E. & W
sides for Standard Cor. to

Tps. 13 N Rs. 11 & 12, E. from which

A Pine 12 ins. diam. bears

N 75° E 5 lks. dist. Marked

T. 13 N. R. 12 E Sec. 31. B. T.

A Pine 14 ins. diam. bears

N 22° E 4 lks. dist. Marked

T. 13 N. R. 12 E. Sec. 31. B. T.

A Pine 7 ins. diam. bears

N 27° W. 7 lks. dist. marked

Resurvey of the third Standard

chs. Tps. 13 N. R. 11 E. Sec. 36 B. I.

A Pine 15 ins. diam. branch,

S 25° W 21 lks. dist. Marked:

Tps. 13 N. R. 11 & 12 E. S. C. Secs. 31 & 36

B. I. —

This Cor. was improperly
marked, and none of the
witness trees agreeing with
the notes furnished me,
by the Surveyor General

I continue on a random
line through R. 12 E. on
3^d Standard Parallel N.

From the Standard Cor.
to Tps 13 N R. 11 & 12 E
I run East on a
random line thro: R. 12 E.

Parallel N. through Rs. 11, 12, & 13, E.

chs.	Va. $13^{\circ}42'E$
10.36	1/4 Sec. Cor. bears N. 30. lks. dist.
11.50	Sec. Cor. bears N. 60. " "
20.68	1/4 Cor. bears N. 94. " "
60.48	Sec. Cor. bears N. 127. " "
00.76	1/4 Sec. Cor. bears N. 153. " "
40.92	Sec. Cor. bears N. 173. " "
280.83	1/4 Sec Cor. bears N. 195. " "
21.16	Sec. Cor. bears N. 229. " "
61.36	1/4 Sec. Cor. bears N 244. " "
401.76	Sec. Cor. bears N. 265. " "
441.76	No old 1/4 Sec. Cor. found
481.86	Cor. to Sp. 13 N R. 12 & 13 E bears N. 290. links dist. which is a Stone firmly set and properly marked and witnessed as desc- ribed in the field notes furnished by the Sur. Genl July. 3. 1893

Resurvey of the third Standard

Chs. From the Cor. to Sp. 13 N
R. 12 & 13 E I continue
the random line through
R. 13 E.

Thence East.

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

50.50	1/4 Sec. Cor. bears. N. 46. lks. dist.
91.08	Sec. Cor. bears N. 82. " "
131.35	1/4 Sec. Cor. bears. N. 100. " "
172.30	Sec. Cor. bears. N. 146. " "
218.19	1/4 Sec. Cor. bears. N. 170. " "
253.63	Sec. Cor. bears N. 218. " "
294.20	1/4 Sec. Cor. bears. N 266. " "
334.73	Sec. Cor. bears. N. 301. " "
375.09	1/4 Sec. Cor. bears N. 321. " "
415.44	Sec. Cor. bears. N. 377. " "
455.44	No. old 1/4 Cor. found
495.78	Cor. to Sp. 13, N, R. 13 & 14 E bears. N. 438. links. dist. A Line 12 ins. diam.

Parallel N. through Rs. 11, 12 & 13 E

chs. which I reestablish as follows. ^{A Pine 12 ins. diam.} which I mark
 T. 13. N. S. C. on N. R. 14. E.
 S. 31. on E end R 13 E Sec. 36
 on W Sides with 6 matches
 on N. E and W Sides. Whence
 A Pine 8 ins. diam. bears
 N 3° E 81 links dist. marked
 T. 13. N. R. 14 E. Sec. 31 B. S.
 A Pine 14 ins. diam. bears
 N 8° W 15 links dist. marked
 T. 13. N. R. 13. E. Sec. 36. B. S.
 A Pine 24 ins. diam bears
 South 23 lks. dist. marked
 Tps. 13. N. Rs. 13 & 14 E. Secs.
 31 & 36. S. C. B. S. —
 old Cor. improperly
 marked. and witness
 trees do not agree with old Notes

July 4. 1893

Resurvey of the third Standard
 chs. I now return to the
 Standard Cor. to Tps 13 N
 Rs. 10 & 11 E as hereinbefore
 described. The falling in
 running the random line
 through R. 11 E. Was 156 lks.
 South of the Standard Cor.
 to T. 13 N. R. 11 & 12 E.
 The Correction for the true
 line will therefore be
 26 lks. N. per mile, and
 its Course will be.

$N 89^{\circ} 49' E.$

From the established
 Standard Cor. to Tps. 13 N.
 Rs. 10 & 11 E. I run
 $N 89^{\circ} 49' E$ on a true line
 on the S. boundary Sec. 131.

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

In dense Pine timber

Parallel N. through R. N. E.

- chs.
22.90 Gulch 10 lks. wide runs N. E.
40.52 original position of $\frac{1}{4}$ Sec. Cor.
which I reestablish. A
Pine 5 ins. diam. marked
 $\frac{1}{4}$ S. S.C. on N. side
for Standard $\frac{1}{4}$ Sec. Cor.
whence a Pine 14 ins. diam
bears West. 26 lks. marked
S.C. $\frac{1}{4}$ S. B. T.
A Pine 10 ins. diam bears
N 53° E 11 lks. dist. marked
S.C. $\frac{1}{4}$ S. B. T.
47.50 W bank of Gulch. descend
50.20 Gulch 20 lks. wide runs N. E.
52.20 E. bank of Gulch
81.07 Set a Gaudstone 20 x 15 x 8
inches. 15 ins. in the ground
for Standard Cor. $\frac{1}{4}$ Secs.
31 & 32. marked S.C. on

Resurvey of the third Standard

Ch. N. with 5 notches on E and 1 notch on West. faces
 whence a Pine 28 ins. diam
 bears N 45° E 26 lks. dist.
 marked T. 13. N. R. 11. E. Sec. 32 B. 1.
 A Pine 10 ins. diam. bears
 N 85° W 58 lks. dist. marked
 T. 13. N. R. 11. E. Sec. 31. B. 1.
 A Pine 24 ins. diam. bears
 S 8° W 112 lks. dist. marked
 T. 13. N. R. 11. E. Sec 31 & 32 S. C. B. 1.
 old Sec. Cor. Was a Stake
 about 2 ins. diam. marks
 nearly obliterated. Witness
 trees. do not agree with
 the field notes furnished Mr.
 Land. broker.

Soil. gravelly. 3^d rate.
 Timber. dense Pine 81st chs.

Parallel N through Q. 11, E.

- cls. N $89^{\circ}49'E$ on a true line
on the S. boundary Sec. 32.
- 4.75 ^{Va. 19 $^{\circ}$ 40'E}
App dense Pine timber
N bank of Canon N.E. descend
- 18.20 Stream 20 lks. wide, running N.E.
- 22.50 Point bet. Streams N. & S.
- 27.80 Stream 15 lks wide, running N.
- 38.80 Top of E. bank, bet. N. & S.
- 41.10 Set a Sandstone $20 \times 10 \times 5$
ins. 15 ins. in the ground
for Standard $\frac{1}{4}$ Sec. Cor.
marked S.C. $\frac{1}{4}$ on N face,
whence A Pine 20 ins. diam
trans. N. 50 lks. marked
S.C. $\frac{1}{4}$ S. B. T.
- A Pine 36 ins. diam trans
S $10^{\circ}E$ 47 lks. marked
S.C. $\frac{1}{4}$ S. B. T.
- 77.50 Trail bearing Nthly, & Sthly

Resurvey of the third Standard

chs.
 77.80 Gulch 10 lks wide runs N,
 81.50 Set a Sandstone $18 \times 10 \times 6$
 ins. 12 ins. in the ground
 for Standard Sec. Cor. to Secs.
 32 & 33. Marked S.C. on N face
 with 4 notches on E. and
 two notches on W. faces.
 Whence a Pine 6 ins. diam.
 bears N 77° E 35 lks. Marked
 T. 13. N. R. 11. E. Sec. 33. B. T.
 A Pine 16 ins. diam. bears
 N 73° W 50 lks. dist. Marked
 T. 13. N. R. 11. E. Sec. 32 B. T.
 A Pine 20 ins. diam. bears
 S 77° E 54 lks. dist. marked
 T. 13. N. R. 11. E. S. C. Secs. 32 & 33 B. T.
 The old post. for Sec Cor.
 was burned by forest fires
 No $\frac{1}{4}$ Sec. Cor. found

Parallel N. through R. 11. E.
 ch. I reestablished the $\frac{1}{4}$
 Sec Cor. and Sec. Cor. in
 the exact original position
 the witness trees of neither
 Cor. agrees with the field
 notes furnished me by
 the Surveyor General,
 Land. rough & broken
 Soil, gravelly. B^{d} rate.
 Timber, dense Pine. 81⁵⁰ chs.

N $89^{\circ}49'E$ on a true line
 on the S. boundary Sec. 33.

Va. 13⁰⁰ E
 dense Pine Timber
 32.20 Gulch 10 lbs wide flows N.
 40.00 W. bank Gulch N.E. + S.W.
 40.30 reestablished $\frac{1}{4}$ Sec Cor.
 in the original position
 by setting a Sandstone

Resurvey of the third Standard

chs. 20x12x4 ins. 15 ins. in the
ground. for. Standard $\frac{1}{4}$ Sec.
Cor. Marked S.C. $\frac{1}{4}$ on N face
whence Pine 24 ins. diam.
bears N 17° W 32 lks. dist.
Marked S.C. $\frac{1}{4}$ S. B.Y.

A Fir 8 ins. diam. bears
S 70° E 31 lks. dist. Marked
S.C. $\frac{1}{4}$ S. B.Y. —

The old witness trees. for
this Cor. did not agree
with the original field
notes.

41.10 Gulch 20 lks wide runs Nthly

77.55 Gulch 20 lks wide runs Northerty

80.72 reestablished Cor. in Exact
original position. by setting
a Sandstone 24x10x4 ins.
18 ins. in the ground. for.

Parallel N. through R. 11. E.

chs. Standard Sec. Cor. to Secs.
 33 & 34. Marked S.C. on N.
 with 3 notches on E. & W. faces
 whence a Fir 36 ins. diam.
 bears N 56° E 14 lks dist. mar-
 ked T. 13. N. R. 11. E. Sec. 34 B. T.
 A Pine 20 ins. diam. bears
 N 48° W 24 lks dist. marked
 T. 13. N. R. 11. E. Sec. 33. B. T.
 A Pine 20 ins. diam. bears
 S 32° E 12 lks dist. marked
 T. 13. N. R. 11. E. S.C. Secs. 33 & 34. B. T.
 This Cor. was a Small Stone
 10 x 5 x 3 ins. poorly marked
 and lying on the top of ground
 witness trees erroneously given
 in the original field notes
 Land broken.
 Soil, gravelly. 3^d rate.
 Timber, Pine. 80.⁷² chs.

Resurvey of the third Standard
 chs. N $89^{\circ}49'E$ on a true line
 on the S boundary Sec. 34
 Through dense Pine timber
 Va. $13^{\circ}40'E$

20.10 Trail cross. N.T.S.

30.50 W. bank Canon N.T.S. descend

32.60 descend abruptly

33.00 bottom Canon. 20 lks wide N.T.S.

41.94 original position of old
 $\frac{1}{4}$ Sec. Cor. I re establish
 same by setting a sandstone
 $20 \times 12 \times 10$ ins. 15 ins. in the
 ground. for. Standard $\frac{1}{4}$ Sec.
 Cor. marked S.C. $\frac{1}{4}$ on N face
 whence a Fir 12 ins. diam. ls.
 $N51^{\circ}W$ 11 lks dist. marked
 S.C. $\frac{1}{4}$ S. B.T.

A. Pine 10 ins. diam. cross.

$S6^{\circ}E$ 46 lks. dist. marked

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

Parallel N. through R. 11. E.

chs. Could not find original
Cor. Stone, witness trees
incorrectly given in the
original field notes.

Ascend

50.00 E Bank of Cañon ls. N. 7. S.

82.26 Identical with old Cor.
Set a post $4\frac{1}{2}$ ft. long 4
ins. square 24 ins. in the
ground. for Standard Cor.
to Secs. 34. N. 35. marked
S.C. T 13 N R. 11. E. on N.

Sec. 35 on E & Sec. 34 on W faces
with 4 notches on W and 2
notches on E faces. Whence
A. Pine 8 ins. diam. bears
N 13° E 55 lks. dist. marked
T 13 N. R. 11. E. Sec. 35. B. I.
A. Pine 30 ins. diam. bears

Resurvey of the third Standard

cho. N 78° W 40 lks. dist. marked

N. T. 13. E. R 11 E. Sec. 34. B. S.

Amo Oak 6 ins. diam. trans.

S 43 $\frac{1}{2}$ ° W 58 lks. dist. marked

T. 13. N. R. 11 E. S. C. Secs. 34 & 35. B. S.

The old Sec. Cor. was

burned by forest fire

Witness trees incorrectly
given in the original notes
Land broken.

Soil. gravelly. 2^d rate

Timber, Pine & Fir. 82.25 chain
July 5, 1893

N 89° 49' E on a true line

on S. boundary of Sec. 35.

through Pine & timber

Va. 13° 40' E

23.00 W. bank of Gulch bs. N. T. S.

26.00 Stream 20 lks. wide runs N.

ascend

Parallel N. through R. 11. E;

- chs.
33.50 E. bank of Gulch. bs. N.T.S.
40.10 Pine 10 ins. diam. marked
S.C. $\frac{1}{4}$ S. on N. Side for
Standard $\frac{1}{4}$ Sec. Cor., whence
A Pine 20 ins. diam. bears
N 11° W 28 lks. dist. marked
S.C. $\frac{1}{4}$ S. B.T.
An Oak 6 ins. diam. bears
S 81° E 64 lks. dist. marked
S.C. $\frac{1}{4}$ S. B.T.

This Cor. is identical with
the original. bearing trees
are that in accord with
the original field notes.

- 51.20 Spring Creek 10 lks wide runs N.E.
80.15 identical with original Cor.
which I re-establish by
setting a post $4\frac{1}{2}$ ft. long
4 ins. square. 24 ins. in the

Resurvey of the third Standard

chs. ground for Standard Sec. Cor.
 to Secs. 35 & 36. Marked
 S. C. T. 13. N. R. 11. E. on N.

S 36 on End & S 35 on W^{faces}.
 with 1 notch on E & 5 notches
 on W^{faces}. Whence

A Pine 18 ins. diam. bears

N 47° E 57 lks. dist. marked
 T. 13. N. R. 11. E. Sec. 36 B. J.

An Oak 14 ins. diam. bears

N 24° W 56 lks. dist. marked
 T. 13. N. R. 11. E. Sec. 35; B. J.

An Oak 6 ins. diam. bears

S 76° W 36 lks. dist. marked
 T. 13. N. R. 11. E. S. C. Secs. 35 & 36 B. J.

Old post buried by forest fires.
 Land nearly level.

Soil gravelly. 2^d rate.

Timber. Pine and Oaks 80¹⁵ chs.

Parallel N. through R. 11. E.

chs. N $89^{\circ}49'E$ on true line
 on the S boundary Sec. 36.
 Through dense Pine & oak
 Va $13^{\circ}40'E$

38.00 W bank of Canon N. City, descend

40.45 Exact point of original
 Cor. which I reestablish
 by marking a rock
 in place $3 \times 2 \times \frac{1}{2}$ ft
 above ground. Cross thus

(+) S.C. $\frac{1}{4}$, ^{for Standard $\frac{1}{4}$ Sec. Cor.} whence
 A Pine 14 in diam. bears
 N $37^{\circ}W$ 60 lks. dist. marked
 S.C. $\frac{1}{4}$ S. B.T.

An Aspen 8 ins. diam. bears
 S $69^{\circ}E$ 300. lks. dist. marked
 S.C. $\frac{1}{4}$ S. B.T.

The bearing trees are
 erroneously given in field notes
 descend

Resurvey of the third Standard

- ^{chs.}
 41.80 Bottom of Gulch 10 lks wide N W
 Ascend
 51.00 E. Bank Gulch trans. Northernly
 54.70 A Pine 24 ins. diam. marked
 with 2 matches on E & W sides
 81.08 The Cor. to Tps 13 N R. 11 E 12 E
 heretofore described
 Land. Nearly level.
 Soil. Sandy. 2^d rate
 Timber, Pine & Oak. 81⁰⁸ chs.

I have set and reestab-
 lished all the Corners on
 the third Standard parallel
 North, through Range 11 East
 in their original positions
 giving true relative positions
 of all the Corners. This only
 affects T. 13 N. R. 11 E.

Parallel N. through R. 12 E.

chs. I now continue the
 3^d standard parallel
 N. through R. 12 E. the
 falling through R 12 E was
 290 links south of the
 standard cor. to Tpo 13 N
 R. 12 & 13 E. and the
 distance was 481.86 chs.
 as heretofore given in
 the random line. the
 correction will therefore
 be 48 lks. N. and 186 lks
 E. per mile, and the
 true course will be

N 89° 39' E

Thence from the estab-
 lished cor. to Tpo. 13 N. R. 12
 & 13 E. I run
 N 89° 39' E on a true line
 on S. 6th Sec. 31.

Resurvey of the third Standard
 chs. Through dense pine timber
 Va $13^{\circ}42'E$

- 20.10 Gulch 15 lks. wide runs Easterly
 36.65 Pine 14 ins. diam on line
 Marked with 2 notches on E + W sides
 41.86 Set a sandstone $24 \times 10 \times 5$
 ins. 18 ins. in the ground
 for Standard $\frac{1}{4}$ Sec. Cor.
 Marked S.C. $\frac{1}{4}$ on N face
 whence A Pine 8 ins. diam bears
 $N 8^{\circ} E$ 35 lks. dist. Marked
 S.C. $\frac{1}{4}$ S. B. T.
 A Pine 4 ins. diam. bears
 $S 40^{\circ} W$ 54 lks. dist. marked
 S.C. $\frac{1}{4}$ S. B. T.
 From this point the old $\frac{1}{4}$
 Sec. Cor. bears $N 87^{\circ} W$ 150 lks.
 I destroy old $\frac{1}{4}$ Cor. also
 marks on witness trees.

ECOK 1303

Parallel N. through R. 12 E.

- chs.
 52.70 Gulch. 20 lks wide runs N. wistly
 55.50 E. bank Gulch. trans. NW + S.E.
 68.00 Gulch 10 lks. wide runs. N.W.
 81.86 Set. a Sandstone 18x11x5
 ins. 13 ins. in the ground
 for Standard Cor. to Secs. 31 & 32
 marked S.C. on N. and 1 notch
 on W. and 5 notches on E face
 when a pine 5 ins. diam bears.
 N 41 $\frac{1}{2}$ ° E 65 lks. dist. marked
 T. 13, N. R. 12 E. Sec. 32. B.T.
 A Pine 16 ins. diam. bears.
 N 19° W 92 lks. dist. marked
 T. 13, N. R. 12 E. Sec. 31 B.T.
 A Pine 18 ins. diam. bears.
 S 45° E 30 lks. dist. marked
 T. 13, N. R. 12 E. Sec. 31 & 32. B.T.
 From this point the old
 Cor. bears. N 85° W 136 lks.

Resurvey of the third Standard
 Chs. which is a pine. I destroy
 the marks thereon, also the
 marks on the witness trees
 Land, rolling.

Soil, gravelly, 3^d rate
 Timber, Pine, 87.³⁶ chains.

Thence I run
 N 89° 39' E on a true line
 on the S boundary Sec. 32
 Through dense pine timber
 Va. 13° 42' E

0.75 Gulch 10 lks wide, runs N
 2.50 E bank Gulch, bears N & S.
 40.00 Set a post, 4 ft. long, 4 ins
 square 12 ins. in the ground
 for Standard 1/4 Sec. Cor.
 Marked 1/4 S. S.C. on N face
 A pine 13 ins. diam. bears

Parallel N. through R. 12 E.

Chs. N41°W 59 lks dist. marked
S.C. 1/4 S. B.Y.

A Pine 14 ins. diam. bears
S30°W 75 lks. dist. marked
S.C. 1/4 S. B.Y.

From this point, the old
1/4 Cor. a post, 2 ins. square
marks obliterated bears
N80°W 120 lks. dist. I
destroy the old 1/4 Cor. also
marks on witness trees

52.50 W. bank of W Fork Leonards
Canyon. Bears N. ^{1/4 S. W. 1/4} E. descend

66.50 descend abruptly.

69.70 Stream 50 lks. wide in Leonards.
Canyon runs northerly

70.40 leaves bottom and ascend

75.00 top of ridge bears northerly descend

80.00 Sec. a Sandstone 24x10x6

Resurvey of the third Standard
 Chs. 18 ins. in the ground, for
 Standard Cor. to Secs. 32 & 33
 marked S.C. on N. with 4
 notches on E. and 2 notches on
 W. faces. Whence
 A Pine 25 ins. diam. bears
 $N 73^{\circ} E$ 74 lks. dist. marked
 T. 13. N. R. 12. E. Sec. 33. B. T.
 A Pine 5 ins. diam. bears
 $N 63^{\circ} W$ 17 lks. dist. marked
 T. 13. N. R. 12. E. Sec. 32 B. T.
 A Pine 26 ins. diam. bears
 $S 5^{\circ} W$ 58 lks. dist. marked
 T. 13. N. R. 12. E. S.C. Secs. 32 & 33. B. T.
 From this point. old Cor. bears
 $N 77^{\circ} W$ 144 lks. dist. I
 destroy the old Cor. also
 marks on the witness
 trees—

Parallel N. through R. 12, E,
 ch. Land. rough
 Soil. gravelly 3^d rate
 Timber. dense Pine 80 chs.
 July. 6. 1893

N 89°39'E on a true line
 on the S. boundary Sec. 33.
 through dense pure timber
 Va. 13°42'E.

descend

5.30 E. Fork of Leonards Cañon
 30 lks. wide runs N. w. w. thly
 ascend

10.20 E. bank Leonards Cañon brn. NW + SE

37.80 Gulch 10 lks. wide. runs N. thly

40.00 Set. a Sandstone 26 x 10 x 8 ins.
 19 ins. in the ground. for. 1/4
 Standard Cor. marked S.C. 1/4

on N face. whence
 a pine 15 ins. diam. bears

Resurvey of the third Standard

Chs. N 78° E 43 lks. dist. marked
S.C. 1/4 S. B.T.

A Pine 18 ins. diam. bears
S 12° W 12 lks. dist. marked
S.C. 1/4 S. B.T.

old 1/4 Sec. Cor. bears. N 73° 30' W
115. lks. dist. part much
decayed. & marks obliterated
& destroy old Cor. and
marks on Bearing trees

48.00 Gulch 20 lks. wide runs. N.W.

80.00 Set a Sandstone 18 X 10 X 6 ins
13 ins. in the ground for
Standard Sec. Cor. to Secs. 33 &
34. marked S.C. on N. with
3 notches on E & W faces.
Whence An oak 8 ins. diam bears.
N 17° E 84 lks. dist. marked
Sec. 34. T. 13. N. R. 12. E. B.T.

Parallel N. through R. 12, E.

chs. A Pine 16 ins. diam. bears.
 N 36° W 80 lks. dist. marked
 Sec. 33. T. 13. N. R. 12 E B. T.
 A Pine 20 ins. diam. bears.
 S 55° E 26. lks. dist. marked
 Secs. 33 & 34 S. C. T. 13. N. R. 12 E. B. T.
 old Sec. Cor. bears. N 72° W
 98 lks. dist. I destroy old
 Cor. and marks on the
 bearing trees.

Land. Mulling.

Soil. gravelly. 2^d rate.

Timber. some Pine & Oak. 80 chs.

N $89^{\circ} 39'$ E. on a true line
 on the S. boundary Sec. 34
 through dense Pine & oak
 Va. $13^{\circ} 42'$ E.

Resurvey of the third Standard

chs.

- 16.00 N. bank of Gulch, descend
 18.20 Enter bottom. being flat, ascend
 20.50 Leave bottom, ascend
 27.12 Gulch 50. lks. wide runs Northwesterly
 40.00 Set a Sandstone $18 \times 12 \times 4$ ins.
 13 ins. in the ground, for
 Standard $\frac{1}{4}$ Sec. Cor. marked
 S.C. $\frac{1}{4}$ on N face, whence
 A Pine 28 ins. diam, bears
 N 7° W 20 lks. dist, marked
 S.C. $\frac{1}{4}$ S. B. I.
 An oak 6 ins. diam, bears
 S 7° E 28 lks. dist, marked
 S.C. $\frac{1}{4}$ S. B. I.
 Old $\frac{1}{4}$ Sec. Cor. bears, N $93\frac{1}{2}^\circ$ W
 106. lks. dist, which I destroy,
 also marks on bearing trees
 80.00 Set a post $4\frac{1}{2}$ ft. long, 4
 ins. square 12 ins. in the

Parallel. N. through R. 12. E.

cho. ground for Standard Sec.
 Cor. to Secs. 34 & 35, marked
 S.C. T. 13, N. R. 12, E. on N.
 Sec. 34 on W and S 35, on E
 faces with 2 notches on E and
 4 notches on N. faces whence
 An Aspen 10 ins. diam bears
 N 40° E 43 lks. dist. marked
 T. 13, N. R. 12, E. Sec. 35, B. T.
 An Aspen 8 ins. diam bears
 N 12° W 68 lks. dist. marked
 T. 13, N. R. 12, E. Sec. 34, B. T.
 An Aspen 10 ins. diam. bears
 S 75° E 28 lks. dist. marked
 T. 13, N. R. 12, E. S.C. Secs. 34 & 35, B. T.
 Old Cor. bears N 58° W 80 lks
 dist. which I destroy, also
 marks on bearing trees
 The marks on old post. defaced

Resurvey of the third Standard

Chs. Land nearly level,
 Soil. gravelly, 2^d rate.
 Timber. Pine, oak, and Aspen
 Very dense for. 80 chains.

N $89^{\circ}39'$ E on a true line
 on S. boundary Sec. 35.

Through dense Pine & oak
 Vu. $13^{\circ}42'$ E

2.80 Gulch 10 lks wide runs N.E. flat.

4.30 Trail bears N.E. & S.W.

40.00 Set a Sandstone $24 \times 8 \times 6$ ins
 18 ins. in the ground. for
 Standard $\frac{1}{4}$ Sec. Cor. marked
 S.C. $\frac{1}{4}$ on N face. whence
 A. Pine 18 ins. diam. bears
 S. 18° W 57 lks. dist. marked
 S.C. $\frac{1}{4}$ S. B. J.

Parallel N. through R. 12, E.

chs. A Pine 10 ins. diam. bears
 $N 15^{\circ} W$ 44 lks. dist. marked
 S.C. $\frac{1}{4}$ S. B.S.

Old $\frac{1}{4}$ Sec. Cor. bears. $N 56^{\circ} W$
 60 lks. dist. which I destroy,
 also, marks on bearing trees

80.00 Set a Sandstone $22 \times 15 \times 6$ ins
 16 ins. in the ground. for
 Standard Sec. Cor. to Secs.
 35 & 36. marked S.C. on N.

with 1 notch on E. and 5
 notches on W. faces. Whence

A Pine 14 ins. diam bears
 $N 49^{\circ} E$ 64 lks. dist. marked
 T. 13, N. R. 12, E. Sec. 36. B.S.

A Pine 15 ins. diam. bears,
 $N 21^{\circ} W$ 107 lks. dist. marked
 T. 13, N. R. 12, E. Sec. 35. B.S.

A Pine 6 ins. diam. bears.

Resurvey of the third Standard

Chs. S 70° W 25 lks. dist. marked
 T. 13. N. R. 12. E. S. C. Secs. 35 & 36. B. T.
 Old Sec. Cor. bears. N $23^{\circ} 30'$ W
 27 lks. dist. which I distroy
 also marks on bearing trees
 Land. nearly level.
 Soil. gravelly. 2^d & 3^d rate.
 Timber. Pine & oak. 80 chs.

N $89^{\circ} 39'$ E on a true line
 on S. boundary Sec. 36.
 Through dense Pine & oak
 Va. $13^{\circ} 42'$ E

4.10 Gulch 10 lks wide runs. N. wistly
 38.50 top bank. descend trans. N. E.
 40.00 Set. a Sandstone $16 \times 8 \times 5$ ins.
 12 ins. in the ground. for
 Standard 1/4 Sec. Cor. Marked

Parallel N through R. 12, E.

chs. S.C. $\frac{1}{4}$ on N face, whence
 A Pine 14 ins. diam. bears.
 N 40° E 54 lks. dist. marked
 S.C. $\frac{1}{4}$ S. B. T.
 A Fir 8 ins. diam. bears.
 S 51° E 24 lks. dist. marked
 S.C. $\frac{1}{4}$ S. B. T.

After diligent search I fail
 to find the old $\frac{1}{4}$ Sec. Cor.
 descend

45.10 Stream 30 lks. wide runs N.E.
 ascend

53.40 top of bank bears N.E. + S.W.
 80.00 to the ^{stand.} Cor. of T $\frac{1}{2}$ 13 N. R. 12 &
 13 E hereinbefore described
 Land. rough & broken.
 Soil. gravelly. 3^d rate.
 Timber Pine & oak. 80. chs.

Resurvey of the third Standard

ch. I continue the resurvey of the third Standard parallel N. through R. 13. E. the falling in this range was 438 links South. of the Established Standard Cor. to Tps. 13 N. Rs. 13 & 14 E. as heretofore given in the random line. The correction will be ———, 71 lks. N. per mile. † and the true course will be $N 89^{\circ} 30' E$. From the Established Stand. Cor. to Tps. 13 N. Rs. 12 & 13 E. I run $N 89^{\circ} 30' E$ on a true line on S boundary of Sec. 31.

Through dense pine timber
 $Ya. 13^{\circ} 45' E$

9.30 top of bank bears. NE & SW ^{down}

Parallel N. through R. 13. E.

- chs.
 2.35 Stream 20 lks. wide runs N.E. ^{ascend}
 17.00 top of ridge bears N.E. & S.W.
 23.00 Gulch. 10 lks. wide runs N.E. ^{ascend}
 27.80 top of Bank bears N.E. & S.W.
 55.78 Set a Sandstone 20x11x10 ins
 15 ins. in the ground for. Stand.
 1/4 Sec. Cor. marked S.C. 1/4 on
 N. whence a pine 6 ins. diam bears
 N 22° E. 5 lks. dist. marked
 S.C. 1/4 S. B.T.
 A Pine 4 ins. diam. bears
 S 51° E 35. lks. dist. marked
 S.C. 1/4 S. B.T.
 old 1/4 Sec. Cor. by S 89° 30' W
 15.78 chs. dist. a post.
 which I destroy, also the
 marks on bearing trees
 95.78 Set a Sandstone 15x10x5 ins.
 10 ins. in the ground for.

Resurvey of the third Standard

Chs. Standard Sec. Cor. to Secs.
 31 & 32. marked S.C. on N
 with 1 notch on W. and 5
 notches on E faces. Whence
 A Pine 10 ins. diam. bears,
 N 71° E 31 lks. dist. marked
 T. 13. N. R. 13. E. Sec. 32. B. T.
 A Pine 5 ins. diam. bears,
 N 51° W 35 lks. dist. marked
 T. 13. N. R. 13. E. Sec. 31. B. T.
 A Pine 8 ins. diam. bears,
 S 82° W 21 lks. dist. marked
 T. 13. N. R. 13. E. S.C. Secs. 31 & 32. B. T.
 old Sec. Cor. bears. S 89° 30' W
 470 lks. dist. which I
 destroy, also marks on
 the bearing trees.

Land broken.

Soil gravelly, 3^d rate.
 Timber, Pine 95.⁷⁸ chains.

Parallel N through R. 13. E.

- chs. N $89^{\circ}30'E$ on a true line
on S. boundary Sec. 32
Through dense Pine timber
Va. $13^{\circ}45'E$
- 3.70 Gulch 10 lks wide runs N. easterly
- 16.30 W. bank of Willow Cañon bears
N.W. + S.E. descend
- 28.30 descend abruptly
- 31.00 Stream in Willow Cañon 80 lks.
wide runs N.W. ascend
- 40.00 Set a Sandstone $18 \times 10 \times 5$ ins.
13 ins. in the ground. for
Standard $\frac{1}{4}$ Sec. Cr. marked
S.C. $\frac{1}{4}$ on N. face. whence
A Pine 8 ins. diam. bears
N $63^{\circ}W$ 8 lks. dist. marked
S.C. $\frac{1}{4}$ S. B. T.
A Pine 8 ins. diam. bears.
S $55^{\circ}W$. 9 lks. dist. marked

Recovery of the third Standard

- chs. S.C. $\frac{1}{4}$ S. B.T. old $\frac{1}{4}$ Sec. Cor.
 bears. $S 87^{\circ} 45' W$ 433 lks. dist.
 which I destroy, also marks
 on the bearing trees
- 40.20 E bank Willow Cañon bears. NW & S.E.
- 55.20 Gulch. 10 lks. wide runs. S.W.
- 80.00 Set a Sandstone $20 \times 8 \times 4$ ins.
 15. ins. in the ground. for. Stand.
 Cor. to Secs. 32 & 33. marked S.C.
 on N. with 4 matches on E. and
 2 matches on W. faces. whence
 A Pine 20 ins. diam. bears.
 $N 80^{\circ} E$ 90 lks. dist. marked
 T. 13. N. R. 13. E. Sec. 33. B.T.
- A Pine 22 ins. diam. bears.
 $N 61^{\circ} W$ 105. lks. dist. marked
 T. 13. N. R. 13. E. Sec. 32. B.T.
- A Pine 8 ins. diam. bears.
 $S 43^{\circ} W$ 35. lks. dist. marked

Parallel N. through R. 13, E.

chs. T. 13, N. R. 13, E. S. 1 C. Sec. 32 & 33. B. T.
 Old Cor. bears. $188^{\circ}\frac{3}{4}$ W 348 lks. dist
 which I destroy. also. the marks
 on the bearing trees.

Land, broken,

Soil, gravelly, 3^d rate.

Timber, Pine. for. 80 chains

July 7, 1893

N $89^{\circ}30'E$ on a true line
 on the S boundary Sec. 33.

Through dense Pine timber
 Va. $13^{\circ}45'E$

40.00 Set a Sandstone $18 \times 10 \times 4$ ins.
 13 ins. in the ground for Stand.
 $\frac{1}{4}$ Sec. Cor. marked S. C. $\frac{1}{4}$ on
 N face. when a

A Pine 20 ins. diam. bears.

S 22° W 59 lks. dist. marked

Resurvey of the third Standard

chs. S.C. $\frac{1}{4}$ S. B.T.

A Pine 10 ins. diam. bears.

N 45° E 85 lks. dist. markedS.C. $\frac{1}{4}$ S. B.T. - The old $\frac{1}{4}$ Sec. Cor. bears. S 86° W 260 lks.

dist. which I destroy, also

the marks on the bearing trees

56.00 W. bank of Gulch. bears. Northw^{ard}

57.00 Enter bottom

58.60 Stream rising water Northw^{ard} 10 lks.

59.00 leave bottom and ascend

61.00 E. Bank of Gulch bears Northw^{ard}

61.20 Wagon Road from Lonto Basin

to Winslow bears. N. T. S.

78.00 Gulch 10 lks. wide runs N.W.

80.00 Set a Sandstone $16 \times 12 \times 4$ ins.

12 ins. in the ground, for Stand

Cor. to Secs. 33 & 34. Marked S.C.

on N. with 3 notches on E & W

faces. Whence

Parallel N. through R. 13 E.

chs. A Pine 5 ins. diam. trans.

N 53° E 81 lks. dist. marked

T. 13 N. R. 13 E. Sec. 34. B.S.

A Pine 20 ins. diam. trans.

N 84° W 6 lks. dist. marked

T. 13 N. R. 13 E. Sec. 33. B.S.

A Pine 6 ins. diam. trans.

S 78° E 56 lks. dist. marked

T. 13 N. R. 13 E. S.C. Secs. 33 & 34. B.S.

Old Sec. Cor. trans. S 88° 30' W 215

lks. dist. which I destroy, also

the mark on the bearing tree

Land rolling

Sail gravelly 2^d & 3^d rate

Timber same Price 80. Chains

N 89° 30' E on a true line
on S boundary of Sec. 34.

BOOK 1303

Resurvey of the third Standard

chs. Through dense pine timber
Va. $13^{\circ}45'E$

18.30 Gulch. 10 lks. wide runs northerly

40.00 Set a Sandstone $15 \times 11 \times 5$ ins.

10 ins. in the ground. for
Standard $\frac{1}{4}$ Sec. Cor. marked
S.C. $\frac{1}{4}$ on N face. whence

A Pine 4 ins. diam. bears
 $N79^{\circ}E$ 60 lks. dist. marked
S.C. $\frac{1}{4}$ S. B. I.

A Pine 10 ins. diam. bears
 $S51^{\circ}E$ 32 lks. dist. marked

S.C. $\frac{1}{4}$ S. B. I. old $\frac{1}{4}$ Cor. N. $88^{\circ}W$ 158 lks
which I distance.

74.35 Old Wagon Road bears N. T. I.

80.00 Set a Sandstone $20 \times 9 \times 6$ ins.

15 ins. in the ground. for
Standard Sec. Cor. to Secs. 34 & 35
Marked S.C. on N with 2 notches
on E. and 4 notches on W faces.
Whence

Parallel. N. through R. 13 E.

- Chs. A Pine 26 ins. diam. bears.
 N67°E 42 lks. dist. marked
 T. 13. N. R. 13. E. Sec. 35. B. T.
- N Pine 10 ins. diam. bears.
 N18°W 59 lks. dist. marked
 T. 13. N. R. 13. E. Sec. 34. B. T.
- A Pine 14 ins. diam. bears.
 S6°E 169 lks. dist. marked
 T. 13. N. R. 13. E. S. C. Secs. 34 & 35. B. T.
- Old Sec. Cor. bears. N86³/₄ W
 105 lks. dist. which I destroy
 also the marks on bearing trees
 Land. nearly level.
 Soil. gravelly. 2^d rate.
 Timber, dense Pine. 80 chains

N89°30'E on a true line.
 on S. boundary of T 35.

Resurvey of the third Standard

Chs. Through dense Pine timber
Va. $13^{\circ}45'E$

40.00 Set a Sandstone $18 \times 12 \times 3$ ins.
12 ins. in the ground for
Standard $\frac{1}{4}$ Sec. Cor. Marked
S.C. $\frac{1}{4}$ S on N face. Whence
A Pine 15 ins. diam. bears
North 20 lks. dist. marked
S.C. $\frac{1}{4}$ S. B.T.
A Pine 20 ins. diam. bears
South 43 lks. dist. marked
S.C. $\frac{1}{4}$ S. B.T. old $\frac{1}{4}$ Sec Cor.
bears $S 82\frac{1}{2}^{\circ} W$ 70 lks. dist.
which I destroy. also the
Marks on the bearing trees

80.00 Set a Sandstone $18 \times 8 \times 8$ ins.
13 ins. in the ground for
Standard Sec. Cor. Marked
S.C. on N. with 1 notch on E

Parallel, N. through R. 13 E.

chs. and 5 notches on W faces.
 Whence. A Pine 14 ins. diam. bears.
 N61°E. 33 lks. dist. marked
 T. 13. N. R. 13 E. Sec. 36. B. T.
 A Pine 18 ins. diam. bears.
 N66°W 26 lks. dist. marked
 T. 13. N. R. 13 E. Sec. 35. B. T.
 A Pine 16 ins. diam bears.
 S61°W 15 lks. dist. marked
 T. 13. N. R. 13 E. S. C. Secs 35 + 36 B. T.
 old Sec. Cor. bears. N69°W 36
 lks. dist. which I destroy, also
 the marks on the bearing trees
 Land nearly level.
 Soil, gravelly, 2^d rate.
 Timber, dense Pine, 80 chs.

Resurvey of the third Standard

- chs. N $89^{\circ}30'E$ on a true line
 on a boundary Sec. 36
 Through dense pine timber
 Va. $13^{\circ}45'E$
- 4.60 W. bank N fork of Cherlon
 Creek bears. N Easterly descend
- 7.70 Stream 25 lks wide flows. Nthly
- 11.25 Top of ridge bears. N. descend
- 17.15 Top of Bank West. Cherlon. bears
 S.E. & N.W. descend
- 18.15 Stream. runs. S.E. 80 lks wide
- 21.65 recross Stream 50 lks. runs. N.E.
- 23.30 leave bottom. and ascend
- 27.70 top E. bank Cherlon E fork
 bears. N. easterly & S. Westerly
- 40.00 Set a Sand-Stone $16 \times 14 \times 6$ ins
 12 ins. in the ground. for
 Standard $\frac{1}{4}$ Sec. Cor. marked
 S.C. $\frac{1}{4}$ on N. face. whence

Parallel N. through R. 13 E.

chs. A Pine 8 ins. diam. bears
N 7° W 37 lks. dist. marked
S.C. 1/4 S. B.I.

A Pine 6 ins. diam. bears
S 3° E 76 lks. dist. marked
S.C. 1/4 S. B.I.

80.00 After diligent search I
fail to find the old 1/4 ^{Cor.} Sec.
The ^{study} Cor. to S. 13, N. R. 13 & 14 E.
heretofore described.

Land, broken.

Soil, gravelly, 2^d rate.

Timber, dense Pine 80 chs.

18 miles 24 chs. & 42 lks. ^{run thro' heavy Pine timber}
July 8 1893

In running the third
Standard Parallel N. I used
fore and back sights. took
several Solar observations

and found the Instrument
in adjustment, giving the
true meridian, by the
use of the Solar appar-
atus. the measurements
were also Carefully made

Daniel Drummond.

U.S. Deputy Surveyor.