

1.

867

BOOK 867

No. 867

BOOK 867

4-671

FIELD NOTES

GENERAL LAND OFFICE.

Resurvey of

3rd Standard Parallel S.

Range 15 E.

and

W. & N. Boundaries &

Subdivision

of

T. 15 S. R. 15 E.

Preliminary Oaths of Assistants.

BOOK

867

We, Robert Wood - W^m Kelly

and Manuel Brown & Casimiro Barthelemy

do solemnly swear that we will well and faithfully execute the duties of Chain Carriers; that we will level the chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distance to all notable objects, and the true lengths 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 of the 3rd Standard.

Parallel South, Range 15 East - 2nd Standard Parallel South, Ranges 10, 11 and 12 East - 2nd Standard Parallel South, Range 10 East - 2nd Standard Parallel South, Ranges 12 + 13 East -

Exterior and Subdivisions of Tps 11 & 12 S. R. 11 & 12 E. and Tps 15 and 16 S. R. 15 E.

of the Gila and Salt River Base and Meridian in the Territory of Arizona.

Robert Wood Chainman.

W^m Kelly Chainman.

Manuel Brown Chainman.

Casimiro Barthelemy Chainman.

Subscribed and sworn before me, this 25th

day of May 1895.

Thomas A. Boston

Notary Public.

[SEAL.]

We, Ben D. Palmer, Baltazar

Acosta Masario Gonzales

do solemnly swear that we will well and truly perform the duties of flagman and axemen

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 of the 3^d Standard Parallel South Range 15 East - 2nd Standard Par. South Ranges 10-11-12 East - 2nd Guide Mer East, through Tps. 11-12-13 and 14 South Ranges 10 and 11 East and ^{Santa Cruz & Verde Mts. 12 & 13 E.} ~~extending~~ and subdivision lines of Tps. 11 S. R. 11 and 12 E. - Tps. 12 S. R. 12 E. Tps. 15 and 16 S. R. 15 E.

of the Gila and Salt River Base and Meridian, in the Territory of Arizona

Ben D. Palmer, Flagman

Baltazar Acosta, Axeman

Masario Gonzales, Axeman

Subscribed and sworn to before me this 25th

day of

May

1895

Thomas A. Barton

Notary Public.

No. 867

BOOK 867

2

Field-Notes
of the
Re-survey of the
Third Standard Parallel South
through Range 15 East, and
the West and North Boundaries
of Township 15 South, Range 15 East
Survey of the Sub-division
Township 15 South, Range 15 East
Gila and Salt River, Base ²/₃ of Meridian
in the
Territory of Arizona
as surveyed by
Philip Cortzen,
U. S. Deputy Surveyor
Under his Contract No 36
Dated February, 5th 1895
Survey commenced, May 27, 1895
Survey completed, June 6, 1895

BOOK 867

Book No. 867

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(4-674.)

Township 15 SouthR. 15 East

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Resurvey of the 3rd Standard Parallel
Chains

Survey commenced
May 26. 1895. and executed
with a Young and Sons
light mountain transit
No 5609, with a Smiths solar
attachment.

The instrument was ex-
amined, tested on the true
meridian at Tucson
and found correct and
was approved by the
surveyor general for
Arizona, May 24. 1895.

Preliminary to commencing
the Subdivisions of
Townships 15 South,
Range 15 East, I find
it necessary to resurvey
the South, West and

South, through Range 15 East.

North boundaries of said townships, as I found by a preliminary inspection of said boundaries, that almost all the corners are obliterated, and have disappeared.

I begin at the standard cor. of townships 15 south, ranges 14 and 15 east, which is a mesquite post 4 ins. sq., 4 ft. above ground, as described by the surveyor general. Latitude $32^{\circ}5'N$, longitude $110^{\circ}53'W$.

In order to test the solar apparatus, by comparing

Resurvey of the 3rd Standard Parallel
Chains

the results of observations on the sun, made during a. m. and p. m. hours, with a true meridian, determined by observations on Polaris, I proceed as follows:

At 3^h 30^{mo} p. m. l. m. t., I set off $32^{\circ} 5'$ on the lat. arc, $21^{\circ} 15' N.$, on the decl. arc, and mark the true meridian thus determined with the solar, by a cross on a stone, firmly set in the ground, 5 chs. N. of the instrument.

May 26th 1895

South through Range 15 East. - Continued
Chains

May 27: At 2^h 59.5^m a.m. local mean time I observed Polaris at eastern elongation, in accordance with instructions in the Manual; and mark the line thus determined, by a tack driven in a wooden plug set in the ground 5 chains north of my station.

At 6 a.m., I lay off the azimuth of Polaris, $1^{\circ}28'.6$, to the west and mark the true meridian thus determined, by cutting a small groove in the stone set yesterday, on which the true meridian

8
Resurvey of the 3rd Standard Parallel
Chains

falls 0.15 ins. west of the mark determined by the solar.

At 9 h 30^{a.m.} l. m. t., I set off $32^{\circ}5'$ on the lat. arc, $21^{\circ}20'N.$ on the decl. arc, and mark the true meridian determined with the solar, by a cross on the stone already set 5 chs. N. of my station. This mark falls 0.2 ins. west of the true meridian established by the Polar observation.

The solar apparatus, by p. m. and a. m. observations, defines positions for true meridians, about

South, through Range 15 East, Continued
Chain

0.8" east, and 0.11" west of
the meridian established
by the Polaris observation,
therefore, I conclude that
the adjustments of the
instrument are satisfactory.
The magnetic bearing of
the true meridian at
9^h 30^m a. m., l. m. t., is
N 12° 39' W, the angle thus
determined reduced
by the table, page 100,
gives the mean mag. decl.
12° 37' East.

From the standard cor.
above described, I run
East on a random line
setting temp. standard
4 sec. and sec. cor. at

Resurvey of the 3rd Standard Parallel
Chains

intervals of 4000 chs.
and at 5 miles 79.60 chs.
the standard cor. of
Tps. 15 S. R's. 15 and 16 E.
bears 4 lbs. S; said
standard cor, having
been destroyed by fire,
I reestablish the same
as follows:

Set a limestone, 15x6x6
ins, 10 ins. in the ground
for standard cor. of
Tps. 15 S. R's 15 and 16 E,
marked S. C. on N. with
6 grooves on N, E, and
W. faces; redig pits 30x24x12
ins, crosswise on each
line, E. and W. 4 ft. and
N. of stone, 8 ft. dist, and

South, through Range 15 East, Continued.

raise a mound of earth,
5 ft. base, $2\frac{1}{2}$ ft. high,
N. of cor.

Thence I run

West, on S. bdy. Sec. 36

Over rolling land, through
scattering undergrowth

6.20 Trail, bears N. W. and S. E.

29.80 Road, bears N. W. and S. E.

39.00 Trail, bears N. W. and S. E.

Difference, between measure-
ments of 40chs, by two
sets of chainmen, is 4 lbs,
position of middle
point,

By 1st set, 40.02 chs.

By 2nd set, 39.98 chs, the
mean of which is

40.00 Set a mesquite post

Reurvey of the 3rd Standard Parallel
Chains

3 ft. long, 3 ins. sq. with
marked stone, 24 ins.
in the ground, for standard
 $\frac{1}{4}$ sec. cor, marked S.C. $\frac{1}{4}$
on N. face; dig pits 18x18x12
ins., E. and W. of post, 3 ft
dist, and raise a mound
of earth 3 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft.
high, N. of cor.

After diligent search no
signs of the old cor. can
be found.

53.13 Trail, bears N. W. and S. E

57.00 Trail, bears N. W. and S. E.

Difference between measure-
ments of sochs, by two
sets of chainmen, is 6
lks, position of middle
point

South, through Range 15 East. - Continued.

Chains

By 1st set. 79.97 chs.

By 2nd set. 80.03 chs.; the
mean of which is

80.00 Set a limestone, 16x12x6

ins., 12 ins. in the ground,

for standard cor. of sec.

35 and 36, marked S. C. on

N. 1 groove on E. and 5

grooves on W. faces; dig

pits, 24x18x12 ins., cross-

wise on each line, E. and

W., 3 ft., and N. of stone,

7 ft. dist., and raise a

mound of earth, 4 ft

base, 2 ft. high, N. of cor.

(A palo verde, 6 ins. diam.,

bears S 50° E., 83 lks. dist.,

marked T. 15 S. R. 15 E.

S. C. S. 35 and 36 (B. T.)

after diligent search no signs
of the old cor. can be found

Resurvey of the 3rd Standard Parallel

Land, rolling

Soil, gravelly loam; 2nd rate

Timber, scattering mesquite
undergrowth, greasewood.

West, on S. bdy. Sec. 35

Over gently rolling land,
through scattering under-
growth

- 1.00 Trail, bears N.W. and S.E.
3.00 Trail, bears N.W. and S.E.
37.00 Road, bears N.E. and S.W.

Difference between measure-
ments of 40 chs., by two
sets of chainmen, is 6^{1/2} in.
position of middle point

By 1st set, 40.03 chs.

By 2nd set, 39.97 chs., the
mean of which is

South through Range 15 East Continued

- 40.00 Set a mesquite post
3 ft long, 3 ins. sq., with
marked stone, 24 ins. in
the ground, for standard
 $\frac{1}{4}$ sec. cor., marked S.C.
 $\frac{1}{4}$ on N. face; dig pits
18x18x12 ins., E. and W. of
post, 3 ft. dist., and raise
a mound of earth $3\frac{1}{2}$ ft.
base, $1\frac{1}{2}$ ft. high, N. of cor.
After diligent search no
signs of old cor. can be
found
- 56.00 Trail bears N.W. and S.E.
Difference, between measure-
ments of 80 chs., by two sets
of chainmen, is 8 lks., po-
sition of middle point
By 1st set, 80.04 chs.

Resurvey of the 3rd Standard Parallel
Chains

By 2nd set, 79.96 chs, the
mean of which is
80.00 Set a limestone 15x12x10
ins., 10 ins. in the ground
for standard cor. of
secs 34 and 35, marked
S. C. on N., with 2 grooves
on E. and 4 grooves on
W. faces; from which
A palo verde, 8 ins. diam.,
bears N 14 1/4° E, 68 lks. dist.,
marked T. 15 S. R. 15 E. S.
35 B. T.

A palo verde, 14 ins. diam.,
bears N 10 1/4° W, 42 lks. dist.,
marked T. 15 S. R. 15 E. S.
34 B. T.

After diligent search,
no signs of old cor.

South, through Range 15 East, Continued
chains

can be found

Land, rolling and level
Soil, rich loam; 1st rate
Timber, scattering mes-
quite and palo verde;
undergrowth greasewood.

West, on S. bdy. Sec. 34

Over level and rolling land

18.00 Dry wash, 10 lks wide, course S.E.

29.60 Road from Tucson to
Davidson Spring, bears N.W. ²/₃ of S.E.

Difference between
measurements of 40 chs.,
by two sets of chainmen,
is 5 lks, position of
middle point

By 1st set, 39.97 ¹/₂ chs.

By 2nd set, 40.02 ¹/₂ chs, the

Resurvey of the 3rd Standard Parallel
 Cham.

mean of which is
 40.00 Set a mesquite post
 3 ft. long, 3 ins. sq. with
 marked stone, 24 ins.
 in the ground for
 standard $\frac{1}{4}$ sec. cor.,
 marked S.C., $\frac{1}{4}$ S. on N.
 face; dig pits 18 x 18 x 12 ins.
 E. and W. of post, 3 ft
 dist; and raise a mound
 of earth, 3 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft.
 high, N. of cor.

After diligent search no
 signs of old cor. can be
 found.

Difference, between
 measurements of sochs,
 by two sets of chainmen,
 is 8 lks; position of

South, through Range 15 East - Continued
Chains

of middle point.

By 1st set. 79.96 chs.

By 2nd set. 80.04 chs, the
mean of which is

80.00 Set a granite stone 16x8x6
ins., 11 ins. in the ground
for standard cor. of secs.

33 and 34, marked S.C.

on N.; with 3 grooves on
E. and W. faces; from which
a palo verde, 12 ins. diam.,
bears N. 71° W., 222 lks. dist.;

marked T. 15 S. R. 15 E.

S. 33. B. T.; no other
tree within limits; dig
pits 30x24x12 ins., cross-
wise on each line E. and
W., 4 ft., and N. of stone
8 ft. dist., and raise a mound

Resurvey of the 3rd Standard Parallel
Chains

of earth, 5 ft. base, 2½ ft.
high, N. of cor.

After diligent search
no signs of old cor. can
be found.

Land, level and rolling
Soil, rich and gravelly
loam, 1st and 2nd rate.

Timber, scattering mes-
quite and palo verde;
under growth, greasewood.

West, on S. bdy. Sec. 33.

Over level and rolling land

18.00 Enter dense palo verde
under growth, bears N.E.
and S.W.

36.50 Road, bears N22°E ^{2/3} of S22°W.
Difference, between

South, through Range 15 East, Continued

Chains

measurements of 40 chs.
by two sets of chainmen,
is 3 lks; position of middle
point

By 1st set, 40.01½ chs.

By 2nd set, 39.98½ chs; the
mean of which is

40.00 Set a granite stone

16 x 10 x 6 ins., 12 ins. in the
ground, for standard
¼ sec. cor., marked S.C.

¼, on N. face; from which
a palo verde, 14 ins. diam.
bears N 48° E, 145 lks. dist;
marked S.C. ¼ S.B.T.

A palo verde, 12 ins. diam.
bears S 36½° W, 100 lks.

dist; marked S.C. ¼ S.B.T.

After diligent search

Resurvey of the 3rd Standard Parallel
Chains

no signs of old cor.
can be found

75.00 Saw dense palo verde
under growth, bears N. $2\frac{1}{2}$ S.
Difference, between
measurements of 80 chs.,
by two sets of chainmen
is 6 lks. position of middle
point.

By 1st set, 79.97 chs.

By 2nd set, 80.03 chs, the
mean of which is

80.00 Set a limestone, 15x14x10
ins., 10 ins. in the ground,
for standard cor. of secs.
32 and 33, marked S.C. on
N., with 4 grooves on E.
and 2 grooves on W. faces;
from which

South, through Range 15 East, Continued
Chain

A mesquite, 6 ins. diam.
 bears $N 9\frac{1}{2}^{\circ} E$, 155 lks. dist.;
 marked T. 15 S. R. 15 E.
 S. 33. B. T.

A mesquite 7 ins. diam.,
 bears $N 23\frac{1}{2}^{\circ} W$, 190 lks. dist.;
 marked T. 15 S. R. 15 E.
 S. 32. B. T.

After diligent search
 no signs of old cor. can
 be found

Land, level and rolling
 Soil, gravelly loam, 2nd rate,
 Timber, scattering
 palo verde and mesquite,
 undergrowth palo verde
 and greasewood.

Land, covered with dense
 undergrowth, 57 chs.

Resurvey of the 3rd Standard Parallel

Chains

West on S. bdy. Sec. 32

Over level land

Difference between measurements of 40 chs., by two sets of chainmen, is 7 lks; position of middle point.

By 1st set, 39.96½ chs.

By 2nd set, 40.03½ chs.; the mean of which is

40.00 Set a mesquite post, 3 ft long, 3 ins. sq., with marked stone, 24 ins. in the ground, for standard ¼ sec. cor. marked S. C. ¼ S on N. face, dig pits, 18 x 18 x 12 ins, E. and W. of post, 3 ft. dist., and raise a mound of earth, 3½ ft. base, 1½ ft. high. N. of cor. - After diligent search no signs of old cor. can be found.

South, through Range 15 East, Continued

Chains

66.90 old road, bears N. W. and S. E.
Difference between measurements of 80 chs., by two sets of chainmen, is 8 lks., position of middle point,
By 1st set, 79.96 chs.,
By 2nd set, 80.04 chs., the mean of which is
80.00 Set a mesquite post, 3 ft. long, 4 ins. sq., with marked stone, 24 ins. in the ground, for standard cor. of secs. 31 and 32, marked S. C. T. 15 S., R. 15 E., on N., S. 32 on E., and S. 33 on W. faces; with 5 grooves on E., and 1 groove on W. faces; from which a mesquite 5 ins. diam.

Resurvey of the 3rd Standard Parallel
Chains

bears $N 29^{\circ} E$, 4.21 chs. dist.,
marked T. 15 S. R. 15 E.

S. 32. B. T., dig pits $24 \times 18 \times 12$
ins., crosswise on each line,
E. and W., 3 ft., and N. of
post, 7 ft. dist., and raise
a mound of earth, 4 ft.
base, 2 ft. high, N. of cor.
After diligent search
no signs of old cor. can
be found.

Land, level

Soil, rich loam, 1st rate.

Timber, scattering mesquite,
undergrowth, greasewood.

West, on S. bdy, Sec. 31

Over level and rolling land
Difference between

South, through Range 15 East, Continued

chains

measurements of 39.80
chs, by two sets of chainmen
is 4 lbs, position of
middle point

By 1st set, 39.82 chs.,

By 2nd set, 39.78 chs., the
mean of which is

39.80 Set a granite stone $12 \times 8 \times 6$
ins., 8 ins. in the ground,
for standard $\frac{1}{4}$ sec. cor.,
marked S. C. $\frac{1}{4}$ on N.

face, and raise a mound
of stone, 2 ft. base, $1\frac{1}{2}$ ft.
high, N. of cor. Pits im-
practicable.

(A scrub mesquite 4 ins. diam,
bears S $12\frac{3}{4}^{\circ}$ E., 179 lbs. dist.,
marked S. C. $\frac{1}{4}$ S. B. T.

A scrub mesquite 4 ins.

Resurvey of the 3rd Standard Parallel
chains

diam. bears $S53^{\circ}W$, 98 lks
dist. marked S. C. $\frac{1}{4}$ S. B. T.
After diligent search no
signs of old cor. can be
found.

Difference between
measurements of 79.60
chs, by two sets of chain-
men is 7 lks, position
of middle point

By 1st set. 79.63 $\frac{1}{2}$ chs.

By 2nd set. 79.56 $\frac{1}{2}$ chs, the
mean of which is

79.60 The standard cor. of
Tps. 15 S. Rs. 14 and 15 E.

Land, level and rolling
Soil, rich and gravelly
loam; 1st and 2nd rate.

Timber, scattering mesquite

South, through Range 15 East, Concluded

chains

Yucca verde; undergrowth,
Greasewood.

May 27. 1895.

Resurvey of the W. bdy of
Chains

May 28. 1895, I begin at
cor. of Tps. 14 and 15 S., Rs.
14 and 15 E., which is a
stake, 4 ft. long, 2 ins.
sq. lying on the ground,
greatly decayed and the
marks are nearly obliterated,
old pits are very
dim. I destroy all traces
of the old cor. and re-
establish it at the same
point, as follows:

Set a limestone $16 \times 9 \times 4$ ins.
11 ins. in the ground, for
cor. of Tps. 14 and 15 S.,
R. 14 and 15 E., marked
with 6 notches on each
edge, dig pits $24 \times 24 \times 12$
ins., on each line N., E.,

T. 15 S. R. 15 E. —

chains

and W., 4 ft., and S. of
stone, 8 ft. dist. and raise
a mound of earth, 5 ft.
base, 2½ ft. high, S. of cor.
Thence I run
South, on a random
line.

80.52 Original cor. of secs.
1, 6, 7 and 12, which is a
decayed stake, lying
on the ground, marks
obliterated, bears 2 lks. E.

320.52 Original cor. of secs.
19, 24, 25 and 30, which
is a stake, lying on
the ground, marks
nearly obliterated

480.52 Intersect the "Third
Standard Parallel

Resurvey of the W. bdy of
Chains

South, 5 lks. West of
the standard cor. of Tps.
15 S. Rs 14 and 15 E, which
is a mesquite post, 4 ins
sq., 4 ft. above ground,
marked and witnessed
as described by the sur-
veyor general.

The falling being so
small as not to change
practically, the course
of this line; therefore

I run

North, bet. secs. 31 and 36

Over level and rolling land

6.00 Enter dense palo verde under-
growth, bears E. and W.

34.00 Leave dense palo verde under-
growth, bears E. and W. and

T. 15. S. R. 15 E. - Continued

Chains

scattering mesquite
and greasewood under-
growth

40.00 Set a limestone $15 \times 8 \times 6$
ins., 10 ins. in the ground,
for $\frac{1}{4}$ sec. cor., marked
 $\frac{1}{4}$ on W. face; dig pits,
 $18 \times 18 \times 12$ ins., N. and S. of
stone, 3 ft. dist.; and
raise a mound of earth,
 $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high,
W. of cor.

After diligent search,
no signs of old cor.
can be found.

80.00 Set a mesquite post,
3 ft. long, 4 ins. sq.,
with marked stone,
24 ins. in the ground

Resurvey of the N. bdy. of
Chains

for cor. of secs. 25, 30,
31 and 36, marked
T. 15 S., S. 30 on N. E.
R. 15 E., S. 31 on S. E.
S. 36 on S. W. and
R. 14 E., S. 25 on N. W. faces;
with 5 notches on N. and
1 notch on S. edges; dig
pits, 18x18x12 ins., in each
sec. 5½ ft. dist. and raise
a mound of earth, 4 ft
base, 2 ft high, W. of cor.
After diligent search, no
signs of old cor. can be
found.

Land level and rolling
Soil, rich loam; 1st rate.
Timber, scattering mes-
quite and palo verde;

T. 15 S. R. 15 E. - Continued
chains

undergrowth, grease-wood, palo verde and mesquite.

Land covered with dense undergrowth 28 chs.

North, bet. secs. 25 and 30
Over level and rolling
land, through scattering
undergrowth

34.34 Road bears $N. 85^{\circ} W \frac{3}{4} S 85^{\circ} E$.

40.00 Set a mesquite post
3 ft. long, 3 ins. sq. with
marked stone, 2 1/4 ins.
in the ground, for $\frac{1}{4}$
sec. cor., marked $\frac{1}{4}$ S.
on W. face; dig pits 18 x 18 x 12
ins. N. and S. of post, 3
ft. dist., and raise a

Resurvey of the W. bdy of
Chain
and greasewood.

North, bet. secs. 19 and 24
Over level and rolling land
through scattering timber
and undergrowth

29.47 Road, bears E. and W.

40.00 Set a mesquite post,
3 ft. long, 3 ins. sq. with
marked stone 24 ins.
in the ground, for $\frac{1}{4}$
sec. cor., marked $\frac{1}{4}$ S.
on W. face; from which
A mesquite 4 ins. diam.
bears $S 87\frac{3}{4}^{\circ} W$, 153 lks.
dist. marked $\frac{1}{4}$ S. B. T.
No other tree within limits,
dig pits 18 x 18 x 12 ins., N.
and S. of post, 3 ft. dist;

T. 15 S. R. 15 E. - Continued

chains

and raise a mound
of earth, $3\frac{1}{2}$ ft. base,
 $1\frac{1}{2}$ ft. W. of cor.

After diligent search,
no signs of old cor. can
be found

80.00 Set a mesquite post
3 ft. long, 4 ins. sq. with
marked stone 24 ins.
in the ground, for cor.
of secs. 13, 18, 19 and 24,
marked

T. 15 S. S. 18 on N.E.,
R. 15 E. S. 19 on S.E.,
S. 24 on S.W. and
R. 14 E. S. 13 on N.W. faces,
with 3 notches on N.
and S. edges; dig pits,
 $18 \times 18 \times 12$ ins. in each sec.

Chains

Resurvey of the W. bdy. of

5½ ft. dist; and raise
a mound of earth, 4 ft
base, 2 ft. high, W. of cor.
After diligent search
no signs of old cor.
can be found.

Land, level and rolling.
Soil, loam, 2nd rate
Timber, scattering mes-
quite and palo verde;
undergrowth, greasewood

North, bet. secs. 13 and 18

Over level, and rolling land,
through scattering under-
growth

15.40 Trail, bears N.W. and S.E.

16.00 Dry wash, 10 lks. wide, course S 86° E

40.00 Set a mesquite post,

T. 15 S. R. 15 E. - Continued

Chains

3 ft. long, 3 ins. sq. with
marked stone, 24 ins.
in the ground, for $\frac{1}{4}$
sec. cor. marked $\frac{1}{4}$ S.
on W. face; from which
A palo verde, 6 ins. diam.
bears $N 88^{\circ} E$, 122 lbs. dist.;
marked $\frac{1}{4}$ S. B. T.

A mesquite 4 ins. diam.
bears $S 1\frac{1}{2}^{\circ} W$, 239 lbs.
dist. marked $\frac{1}{4}$ S. B. T.
no signs of old cor.

58.90 Road from Tucson to
Davidson's Spring bears
 $N 80^{\circ} W$ and $S 80^{\circ} E$.

78.90 Road, bears $N 87^{\circ} W$ $\frac{2}{3}$ $S 87^{\circ} E$.

80.00 Set a sand stone $16 \times 8 \times 8$,
ins., 12 ins. in the ground,
for cor. of secs. 7, 12, 13 and 18,
marked with 2 notches

Chains

Resurvey of the W. bdy of

on N. and 4 notches
on S. edges; dig pits,
18x18x12 ins., in each sec.
5½ ft. dist.; and raise
a mound of earth, 4 ft.
base, 2 ft. high, W. of cor.
^{no signs of old cor.}
Land, level and rolling
Soil, gravelly loam; 2nd rate
No timber; undergrowth,
greasewood.

North, bet. sees. 7 and 12

Over gently rolling land

40.00 Set a mesquite post,
3 ft. long, 3 ins. sq., with
marked stone, 24 ins.
in the ground for ¼
sec. cor. marked ¼ S.
on W. face; from which

T. 15 S. R. 15 E. - Continued

Chains

A palo verde 6 ins. diam.
 bears $S 84\frac{1}{2}^{\circ} W$, 338 lbs.
 dist. marked $\frac{1}{4}$ S. B. F.,
 dig pits $18 \times 18 \times 12$ ins.,
 N. and S. of post, 3 ft.
 dist. and raise a mound
 of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$
 ft. high, W. of cor.

After diligent search,
 no signs of original
 cor. can be found.

80.00 Set a limestone, $16 \times 8 \times 5$
 ins., 11 ins. in the ground,
 for cor. of secs. 1, 6, 7 and 12,
 marked with 1 notch
 on N. and 5 notches on
 S. edges, from which
 A mesquite, 6 ins. diam.
 bears $N 74\frac{1}{4}^{\circ} E$, 206 lbs. dist.

Resurvey of the W. bdy of

chains

marked T. 15 S. R. 15 E.

S. 6. B. T.

A mesquite 7 ins. diam.

bears $S 62\frac{1}{4}^{\circ} E$, 128 lks.

dist.; marked T. 15 S. R. 15 E.

S. 7 B. T.

A mesquite, 5 ins. diam.

bears $S 68\frac{1}{2}^{\circ} W$, 70 lks. dist.;

marked T. 15 S. R. 14 E.

S. 12 B. T.

A palo verde 5 ins. diam.

bears $N 2\frac{1}{4}^{\circ} W$, 222 lks. dist.;

marked T. 15 S. R. 14 E.

S. 1 B. T.

I destroy all traces
of the old cor.

Land, gently rolling
Soil, rich loam; 1st rate
Timber, a few mesquite

T. 15 S. R. 15 E. - Continued

chains

and palo verde trees;
undergrowth, scatter-
ing greasewood and
cholla.

North, bet. secs. 1 and 6

Over gently rolling land

36.70 Telegraph line, bears $N 54^{\circ} W$
and $S 54^{\circ} E$

37.60 Middle of single track
of the Southern Pacific
Railroad, bears $N 54^{\circ} W$
and $S 54^{\circ} E$

38.00 Road from Tucson to
Pantano, bears N.W. and N.E.

38.50 Telegraph line, bears $N 54^{\circ} W$
and $S 54^{\circ} E$.

40.00 Set a limestone, $16 \times 6 \times 6$
ins, 11 ins. in the ground

Resurvey of the W. bdy of T. 15 S. R. 15 E. - Concluded

for $\frac{1}{4}$ sec. cor., marked
 $\frac{1}{4}$ on W. face; dig pits
 $18 \times 18 \times 12$ ins. N and S. of
stone, 3 ft. dist; and raise
a mound of earth, $3\frac{1}{2}$ ft
base, $1\frac{1}{2}$ ft. high, W. of
cor.

After diligent search,
no signs of old cor.
can be found.

59.60 Road, bears N.W. and S.E.

80.52 The cor. of Tps. 14 and 15
S., R. 14 and 15 E. as here-
tofore described.

Land, gently rolling
Soil, sandy loam; 2nd rate
No timber; undergrowth,
greasewood and cholla.

May 28. 1895

Resurvey of the N. bdy. of

Chains

May 29, 1895. I begin at cor. of Tps. 14 and 15 S. Rs. 14 and 15 E., as heretofore described.

East, on a random line, along the N. bdy. of T. 15 S. R. 15 E. setting temp. $\frac{1}{4}$ sec. and sec. cors. at intervals of 40 chs; and at 483.37 chs, I intersect east boundary of T. 15 S. R. 15 E. 15 Mks. S. of cor. of Tps. 14 and 15 S. Rs. 15 and 16 E., which is a sandstone $8 \times 10 \times 7$ ins. above ground, marked and witnessed as described by the surveyor general. The falling

T. 15 S. R. 15 E. —

chains

answers to a correction of $0^{\circ} 01'$, or $2\frac{1}{2}$ lks. N. per mile, counting from the N. W. cor. of the Tps.; As this line is in excess over 3 chs., it is evident that the cor. of Tps. 14 and 15 S. Rs. 15 and 16 E. is not established on a true North and S. line, I therefore, test the course of the east boundary by running South, and after retracing several miles, I find the course to be, $N 24^{\circ} 15' E.$ and $S 24^{\circ} 24' W.$; I now return to cor. of Tps. 14 and 15 S. Rs. 15 and 16 E.

Resurvey of the N. bdy of

Chains

and run

S 89° 59' N., bet secs 1 and 36

Over rolling land

2.00 Ascend spur of mesa,
bears N. and S.

6.80 Top of spur, bears N. and S.

7.20 Descend

8.50 Foot of spur

10.00 Enter dense mesquite
and tesota undergrowth,
bears N. and S. and
enter Pantano Valley,
bears N. W. and S. E.43.37 Set a limestone, 14 x 12 x 4
ins., 9 ins. in the ground,
for $\frac{1}{4}$ sec. cor; marked
 $\frac{1}{4}$ on N. face; from which
a mesquite, 12 ins. diam.
bears N 79° E. 29 lbs. dist.;

T. 15 S. R. 15 E. - Continued

chains

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

A mesquite 14 ins. diam
bears $S 79^{\circ} \frac{1}{4} W$, 46 lks. dist,
marked $\frac{1}{4}$ S. B. T.

After diligent search,
no signs of old cor.
can be found.

55.40 Dry wash, 50 lks. wide, course N.W.

59.35 Dry wash, 30 lks. wide, course N.W.

61.40 Dry wash, 30 lks. wide, course N.W.

68.20 Dry wash, 20 lks. wide, course N.W.

72.20 Dry wash, 15 lks. wide, course N.W.

73.30 Dry wash, 10 lks. wide, course N.W.

74.40 Dry wash, 20 lks. wide, course N.W.

75.20 Dry wash, 25 lks. wide, course N.W.

76.60 Road, bears N.W. and S.E.

and leave dense mesquite
undergrowth, bears N.W. and S.E.
and leave Pantano Valley

Resurvey of the N. bdy. of
Chains

and ascend to mesa.

83.37 Set a granite stone $15 \times 8 \times 6$
ins., 10 ins. in the ground,
for cor. of secs. 1, 2, 35 and 36,
marked with 1 notch on E.
and 5 notches on W. edges;
from which

A mesquite 6 ins. diam.
bears $N 34\frac{1}{2}^{\circ} E$. 232 lks.
dist. marked T. 14 S. R. 15 E
S. 36 B. T.

A palo verde, 8 ins. diam.
bears $S 19^{\circ} E$, 104 lks. dist.
marked T. 15 S. R. 15 E. S. 1
B. T.

A palo verde, 8 ins. diam.
bears $S 64\frac{1}{2}^{\circ} W$. 90 lks. dist.
marked T. 15 S. R. 15 E. S. 2
B. T.

T. 15 S. R. 15 E. - Continued

Chains

A palo verde, 9 ins. diam.
bears N 45° W, 192 lbs. dist.
marked T. 15 S. R. 15 E.

S. 35 B. T., No signs of old cor.
Land, level and rolling
Soil, stony and loam, 2nd
and 3rd rate.

Timber, mesquite and palo
verde; undergrowth, mes-
quite and tesota.

Land, covered with dense
undergrowth 66.60 chs.

S 89° 59' W, bet. sees. 2 and 35

Over rolling land

- .70 Top of mesa, bears N. W. ²/₃ by S. E.
12.00 Gulch, 20 lbs. wide, course N. W.
35.00 Enter dry wash, course North
40.00 Falls on a granite stone

Resurvey of the N. bdy of

Chains

8 x 8 x 7 ins above ground,
I cut a cross (x) at the exact
cor. point for $\frac{1}{4}$ sec. cor.,
I mark $\frac{1}{4}$ on N. face; from
which

A mesquite, 6 ins. diam.
bears $N 44^{\circ} W$, 46 lks. dist.
marked $\frac{1}{4}$ S. B. T.

A mesquite, 6 ins. diam.
bears $S 77^{\circ} E$, 106 lks. dist.
marked $\frac{1}{4}$ S. B. T.

No signs of old cor.

- 40.50 Leave dry wash, course N.
50.00 Enter dense palo verde
undergrowth, bears N. and S.
75.50 Gulch, 20 lks. wide, course N.W.
80.00 Set a granite stone,
12 x 12 x 12 ins, 8 ins. in the
ground, for cor. of secs.
2, 3, 34 and 35, marked

T. 15 S. R. 15 E. - Continued

Chains

with 2 notches on E, and
4 notches on W. edges;
from which

A palo verde, 6 ins. diam.
bears N 43° E, 65 lbs. dist.,
marked T. 14 S. R. 15 E.
S. 35. B. T.

A mesquite, 8 ins. diam.
bears S 17½° E. 74 lbs. dist.,
marked T. 15 S. R. 15 E. S. 2
B. T.

A mesquite, 7 ins. diam.
bears S 86¼° W, 32 lbs. dist.,
marked T. 15 S. R. 15 E. S. 3 B. T.

A palo verde, 8 ins. diam.
bears N 57¼° W, 119 lbs. dist.,
marked T. 14 S. R. 15 E.
S. 34 B. T., No signs of old cor
Land, rolling

Resurvey of the N. bdy of

C. Chains

Soil, gravelly loam, 3rd rate
 Timber, palo verde, under-
 growth, palo verde.

Land, covered with dense
 undergrowth, 30 chs.

S $89^{\circ}59'$ W, bet. secs. 3 and 34
 Over rolling land, through
 dense palo verde under-
 growth.

- 12.00 Gulch, 15 lks. wide, course N.W.
 15.00 Gulch, 25 lks. wide, course N.W.
 40.00 Set a granite stone, 14x12x5
 ins., 9 ins. in the ground
 for $\frac{1}{4}$ sec. cor. marked
 $\frac{1}{4}$ on N. face; from which
 A palo verde, 16 ins. diam.
 bears N 37° E, 270 lks. dist,
 marked $\frac{1}{4}$ S. B. T.

T. 15 S. R. 15 E. - Continued

Chains

A palo verde, 12 ins. diam.
bears $S 42^{\circ} W$, 89 lbs. dist,
marked $\frac{1}{4}$ S. B. T.

No signs of old cor.

40.70 Road, bears N. N. W. and S. S. E.

66.50 Descend into

67.50 Dry wash, 20 lbs. wide, course N. W.
and ascend gradually

76.00 Top, bears N. W. and S. E.

80.00 Set a mesquite post,
3 ft. long, 4 ins. sq. with
marked stone, 24 ins.
in the ground, for cor.
of secs. 3, 4, 33 and 34,
marked

T. 14 S. S. 34 on N. E.

R. 15 E. S. 3 on S. E.

T. 15 S. S. 4 on S. W. and
S. 33 on N. W. faces; with
3 notches on E. and W.

Resurvey of the N. bdy of
 Chains
 edges; from which
 A palo verde 5 ins. diam.
 bears $N 71\frac{1}{2}^{\circ} E$, 77 lks. dist.,
 marked T. 14 S. R. 15 E.,
 S. 34 B. T.

A palo verde, 6 ins. diam.,
 bears $S 44\frac{1}{2}^{\circ} E$, 57 lks. dist.,
 marked T. 15 S. R. 15 E.
 S. 3 B. T.

A palo verde, 6 ins. diam.,
 bears $S 61\frac{1}{2}^{\circ} W$, 53 lks. dist.,
 marked T. 15 S. R. 15 E. S. 4
 B. T.

A palo verde, 7 ins. diam.
 bears $N 7\frac{1}{2}^{\circ} W$, 167 lks. dist.,
 marked T. 14 S. R. 15 E.
 S. 33. B. T.

No signs of old cor.
 Land, rolling

T. 15 S. R. 15 E. - Continued

Chains

Soil, gravelly loam; 2nd rate,
 Timber, palo verde;
 undergrowth, palo verde
 Land covered with dense
 undergrowth, 80 chs.

S 89° 59' W. bet. secs. 4 and 33.

Over rolling land, through
 dense palo verde undergrowth.

- 1.00 Trail, bears N.W. and S.E.
 2.00 Leave dense palo verde
 undergrowth, bears N.W. $\frac{3}{4}$ S.E.
 and descend from mesa
 6.00 Foot of mesa
 6.43 Trail, bears N.W. and S.E.
 7.90 Chirion wash (dry), 25 lks.
 wide, course N.
 8.00 Ascend gradually
 29.00 Trail, bears N. and S.

Resurvey of the N. bdy. of
Chains

- 40.00 Top of mesa, bears N. 34° E.
Set a mesquite post,
3 ft. long, 3 ins. sq. with
marked stone, 24 ins.
in the ground, for $\frac{1}{4}$ sec.
cor. marked $\frac{1}{4}$ S. on N.
face; from which
A palo verde, 8 ins. diam.
bears N 53° E, 36 lks. dist,
marked $\frac{1}{4}$ S. B. T.
A mesquite, 6 ins. diam.
bears S 13° W, 39 lks. dist,
marked $\frac{1}{4}$ S. B. T.
No signs of old cor.
80.00 Set a sand stone
15 x 12 x 6 ins., 10 ins. in the
ground, for cor. of sees
4, 5, 32 and 33, marked
with 4 notches on E.

Continued, Books 831, 832.

Concluded, Book 833.