

861

No. 861

Fractional

BOOK 861

4-671

FIELD NOTES

GENERAL LAND OFFICE.

*Resurvey of S. boundaries
of sec's 34, 35 + 36 and retracement
of S. bdy. of sec. 33 T15 S R 23 E*

Retracement W Bdy 16 S R 23 E

Subdivision

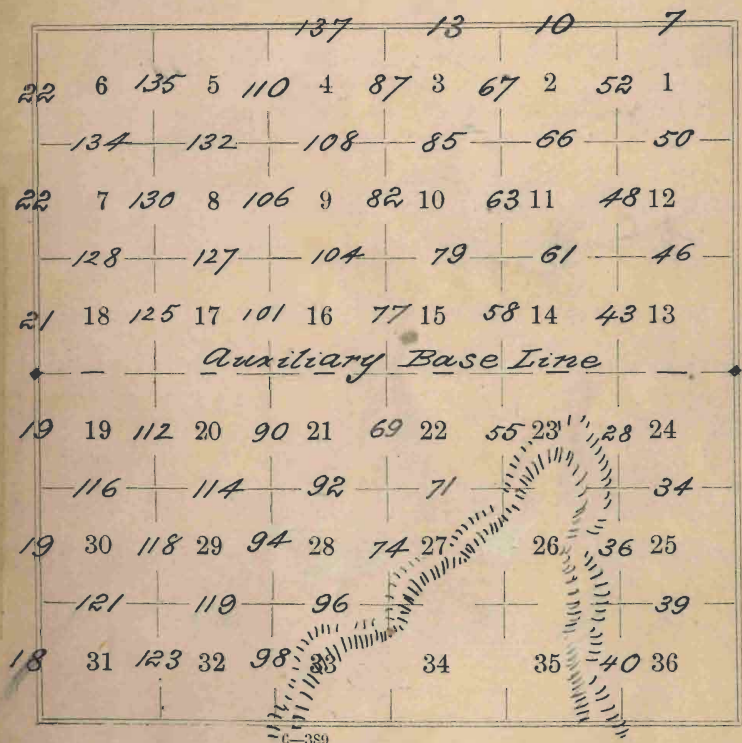
— of —

T.16.S.R.23E.

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(4-674.)

Township 16 S R. 23 E



No. 861

BOOK 861

Field Notes

of the resurvey of the S.
boundaries of sec's 34, 35^{2d} & 36
and the retracement of the S.
bdy. of sec. 33 of T. 15 S. R. 23 E.
and the survey of the
Subdivision lines

—w— of —w—

Township 16 South, Range 23 East

—w— of the —w—

Principal Base^{2d} Meridian
in the
Territory of Arizona

Alfred S. Trippel
U. S. Deputy Surveyor
as surveyed by

Philip Coutzen,
Compassman,

Under Contract No. 29

Dated June 17, 1893

Survey commenced November 13, 1893

Survey completed January 16, 1896

Note: In my Special Instructions dated September 23, 1895, page 4, I was instructed to establish the south boundaries of Tps. 16 S. R's 23 and 24 E. by running from cor. of Tps. 16 and 17 S. R's 24 and 25 E. - West on a random line to cor. of Tps. 16 and 17 S. R's 22 and 23 E. and correct back on a true line with fractional distance apportioned to each townships and placed in the west half mile, but owing to the fact that portion of the South boundary of T. 16 S. R. 23 E. was impracticable for chaining on account of high mountains I established an Auxiliary Base Line through the center of Tps 16 S. R's 23 and 24 E. therefore, lines bet. secs. 13 and 24, 14 and 23, 15 and 22, 16 and 21, 17 and 20, 18 and 19, which preceded the subdivision of this townships will be found in book of exteriors, pages 25-34.

Resurvey of the Third Standard Chains

After diligent search I find the standard cor. of sees 33 and 34, which is a lime stone marked and witnessed as described by the surveyor general. November 13. 1895. — At 9^h 15^m a. m. l. m. t., I set off $32^{\circ}5'N.$ on the lat. arc., $18^{\circ}1'S.$ on the decl. arc, and determine a true meridian; thence I run East on a random line

38.83 Old standard $\frac{1}{4}$ sec. cor. bears 22 lks S

78.83 Old standard sec. cor. bears 44 lks. S

118.68 Old standard $\frac{1}{4}$ sec. cor. bears

Parallel South, through Range^{23E}

chains

61 lks. S.

158.68 Old standard sec. cor.

bears 79 lks. S.

198.84 Old standard $\frac{1}{4}$ sec. cor.

bears 102 lks. S.

239.00 Old standard cor. of

Eps. 15 S. R's 23 and 24 E.

bears 125 lks. S.

November 13, 1895

As I find only faint evidence of the original corners and a difference in the course and distance from the one given in the original fieldnotes furnished me by the Surveyor general. I write the Surveyor general for authority

Resurvey of the Third Standard
Chains

to resurvey this portion of the Third Standard Parallel South through Range 23 East. The Surveyor General, by letter dated Dec. 3, 1895 authorizes me to make such resurvey.

December 28, 1895

December 28: At the standard cor. of Tps. 15 S. R's 23 and 24 E., as re-established by me on December 27, 1895: At 9^h 5^m a. m., l. m. t., I set off $32^{\circ}5'$ on the lat. arc, and $23^{\circ}15'$ S. on the decl. arc, and determine

Parallel South through Range 23 East - Continued
Chains

a true meridian

Thence, I run

$N 89^{\circ} 40' W$, on S. ldy. sec. 36

Over level land

13.90 Telegraph line, bears $N 29^{\circ} 56' E$
and $S 29^{\circ} 56' W$.

14.76 Middle of single track
of the Southern Pacific
Railroad, bears $N 29^{\circ} 56' E$
and $S 29^{\circ} 56' W$

15.75 Road from Dragoon
Summit to Willcox
bears $N 29^{\circ} 56' E$ and $S 29^{\circ} 56' W$.

30.43 Trail, bears N.E. and S.W.
Difference between measure-
ments of 40.16 chs., by two
sets of chainmen, is 4 lbs.,
position of middle
point

Resurvey of the Third Standard Parallel
Chains

By 1st set 40.18 chs.

By 2nd set 40.14 chs, the
mean of which is

40.16 Original point of
standard $\frac{1}{4}$ sec. cor.

Set a granite stone
20x7x7 ins.; 15 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 cor., 4 ft. dist.; and
raise a mound of earth
3 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high,
N. of cor.

At this cor. I found only
faint pits.

78.40 Trail, bears N. N. E. ^{2nd} of S. S. W.
Difference between measure-

South through Range 23 East - Continued
Chains

ments of 80.32 chs. by two sets of chainmen is 4 lbs. position of middle point by 1st set, 80.30 chs.

By 2nd set, 80.34 chs.; the mean of which is

80.32 Original point of standard sec. cor.

Set a pine post, 3 ft. long, 4 ins. ^{with marked stone} sq., 24 ins. in the ground, for standard cor. of secs.

35 and 36, marked S. C. T. 15 S. R. 23 E. on N. S. 36 on E. and

S. 35 on W. faces; with 1 groove on E. and 5 grooves on W. faces; dig pits, 24 x 18 x 12 ins.

Resurvey of the Third Standard Parallel
Chains

E. and W., 3 ft., and N.
7 ft. dist., and raise
a mound of earth, 4 ft.
base, 2 ft. high, N. of cor.
At this cor. I found only
faint evidence of pits.

Land level

Soil sandy loam; 2nd note

No timber

N 89° 45' W., on S. bdy.
sec. 35

Over gently rolling land
Difference, between measure-
ments of 40.00 chs., by two
sets of chainmen, is 2 lks.
position of middle point
By 1st set, 39.98 chs.,
By 2nd set, 40.02 chs.; the

South through Range 23 East - Continued

Chains

mean of which is
 40.00 Original point of
 standard $\frac{1}{4}$ sec. cor.
 Set a pine post, 3 ft.
 long, 4 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.

At this cor. I found
 only faint traces of pits.

64.81 Trail, bears N.E. and S.W.
 Difference between
 measurements of 79.85 ch.
 by two sets of chainmen,

Resurvey of the Third Standard Parallel
Chains

is 10 lbs., position of
 middle point.

By 1st set, 79.90 chs.

By 2nd set, 79.80 chs; the
 mean of which is

79.85 Original point of standard
 sec. cor.

Set a pine post, 3 ft.
 long, 4 ins. sq. with
 marked stone, 24 ins.
 in the ground for
 standard cor. of secs.

34 and 35, marked C.C.

S. 15 S., R. 23 E. on N.

S. 35 on E., and

S. 34 on W. faces, with
 2 grooves on E. and 4
 grooves on W. faces; dig
 pits 24 x 18 x 12 ins., E. and

South through Range 23 East - Continued
 Chains

W. 3 ft. and N. 7 ft. dist,
 and raise a mound of
 earth, 4 ft. base, 2 ft.
 high, N. of cor.

At this cor. I found only
 faint traces of pits.

Land gently rolling
 Soil sandy loam; 2nd rate
 No timber

N 89° 41' W. on S. ldy. Ch. 34

Over level and rolling land

15.00 Enter dense sage under
 growth, bears N and S.

Difference between measure-
 ments of 40. chs., by two
 sets of chainmen, is 4 lks.
 position of middle point
 By 1st set 39.96 chs.,

Resurvey of the Third Standard Parallel

By 2nd set 40.04 chs.; the mean of which is 40.00 Original point of standard $\frac{1}{4}$ sec. cor.

Set a sand stone $14 \times 7 \times 6$ ins., 9 ins. in the ground for standard $\frac{1}{4}$ sec. cor., marked S.C. $\frac{1}{4}$, on N. face; dig pits $18 \times 12 \times 12$ ins. E. and W. of stone, 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, N. of cor.

At this cor. I found only faint traces of pits.

45.00 Enter scattering grease-wood and mesquite, bears N. and S.

47.00 Ascend gradually

South through Range 23 East - Continued

75.10 Dry wash, 15 lks. ^{wide} course N. E.

76.00 Ascend steeper ^{2/3} of leave, ^{dense} undergrowth

Difference between measurements of 78.83 chs, by two sets of chainmen, is 6 lks, position of middle point

By 1st set, 78.80 chs,

By 2nd set, 78.86 chs, the mean of which is

78.83 The standard cor. of secs. 33 and 34

Land, rolling and mountainous.

Soil, sandy and gravelly loam; 2nd and 3rd rate
No timber; undergrowth sage, greasewood and mesquite.

Resurvey of the Third Standard Parallel
South through Range 23 East - Concluded

Land covered with dense
undergrowth 61.00 chs.

Retracement of the N. ldy of T. 16 S. R. 23 E

I begin at the cor. of
Tps. 16 and 17 S. R. 22nd/23rd E.
which is a granite stone,
marked and witnessed
as described by the surveyor
general.

January 1. 1896: At
8^h 55^m a. m., l. m. t., I
set off $32^{\circ} 0'$ on the lat. arc,
 $22^{\circ} 59'$ S., on the decl. arc,
and determine a true
meridian with the solar,
at the above described
cor.

As far as is sight to
several corners on this
boundary, I determine
its bearing to be $N 0^{\circ} 10' E$
and $S 0^{\circ} 10' W$.

Retracement of the chains

- Thence I run
 No° 10' E, bet. sees. 31 and 36
 Over rolling land
 40.12 $\frac{1}{4}$ sec. cor., which is a
 granite stone, marked
 and witnessed as described
 by the surveyor general
 80.18 The cor. of sees. 25, 30, 31 ²/₄ / 36,
 which is a granite stone,
 marked and witnessed,
 as described by the Surveyor
 general
 Land rolling
 Soil, gravelly loam; 3rd rate
 No timber

-
- No° 10' E. bet. sees. 25 and 30
 Over rolling land
 40.11 $\frac{1}{4}$ sec. cor., which is a

West boundary of T. 16 N. R. 23 E. - Continued

Chains

granite stone, marked
and witnessed as described
by the Surveyor General

80.20 The cor. of secs. 19, 24, 25 ²/₃ 30
which is a granite stone,
marked and witnessed
as described by the Surveyor
General

Land rolling

Soil, gravelly loam; 2nd rate
No timber

N^o 10' E. bet. secs. 19 and 24

Over rolling land

10.95 Fence, bears N. E. and S. W.

11.77 Telegraph line, bears N. E. ²/₃ S. W.

12.73 Middle of single track
of the Southern Pacific
Railroad bears N. E. ²/₃ S. W.

Retracement of the West
Chains

- 13.69 Telegraph line bears N.E. and S.W.
- 14.51 Fence, bears N.E. and S.W.
- 34.96 Old road, bears N.W. and S.E.
- 40.05 $\frac{1}{4}$ sec. cor. which is a charred stake with mound of earth, and witnessed as described by the surveyor general
- 50.20 Road leading to Dragon Summit bears E. and W.
- 62.97 Road leading to Dragon Summit bears E. and W.
- 80.14 The cor. of secs. 13, 18, 19²/₄, which is a charred stake with mound of earth and witnessed as described by the surveyor general

boundary of T. 16 S. R. 23 E. - Continued

chains

Land rolling

Soil gravelly loam; 2nd and 3rd rate

No timber

No° 10' E. bet. secs. 13^{2d} & 18

Over rolling land

40.06 $\frac{1}{4}$ sec. cor., which is
a charred stake with
mound of earth, witnessed
as described by the Surveyor
general

80.17 The cor. of secs. 7, 12, 13^{2d} & 18,
which is charred stake
with mound of earth,
witnessed as described
by the surveyor general

Land rolling

Soil, loam; 2nd and 3rd rate

No timber

Retracement of the West

Chains

- No° 10' E, bet. secs. 7th & 12th
 Over rolling land
 40.11 $\frac{1}{4}$ sec. cor., which is a
 charred stake and mound
 of earth, witnessed as
 described by the Surveyor
 General
 76.12 Road from Dragoon
 Summit, bears N.W. $\frac{2}{3}$ of S. E
 80.18 The cor. of secs. 1, 6, 7th & 12th
 which is a charred stake,
 with mound of earth,
 witnessed as described
 by the Surveyor General
 Sand rolling
 Soil, loam; 2nd $\frac{1}{3}$ of 3rd rate

- No° 10' E, bet. secs 1st & 6th
 Over rolling land
 4.10 Road from Dragoon Summit, N.W. $\frac{1}{3}$ of S. E

boundary of T. 16 S. R. 23 E. - Continued

Chains

40.15

1/4 sec. cor., which is a charred stake, with mound of earth, witnessed as described by the Surveyor General

79.55

The closing cor. of Tps. 16 S. Rs. 22 and 23 E, which a stone, marked and witnessed as described by the Surveyor General. - Standard

cor. of Tps. 15 S. Rs. 22 ³/₄ 23 E bears $N 89^{\circ} 50' W$ 11.23 chs. dist;

Land rolling

Soil, gravelly loam;
2nd and 3rd rate

No timber

Jan. 1. 1896

Subdivisions of
Chains.

I begin at cor. of secs.
13, 14, 23, and 24 as recently
established, as heretofore
described. — Lat. $32^{\circ} 3' N.$
Long. $109^{\circ} 58' W.$

In order to test the
solar apparatus, by
comparing the results
of observations on the
sun, made during a. m.
and p. m. hours. with
a true meridian, de-
termined by observations
on Polaris, I proceed as
follows:

At $3^h 45^m$ p. m.
l. m. t., I set off $32^{\circ} 3'$
on the lat. arc, $22^{\circ} 53'$ on
the decl. arc, and

T. 16. S. R. 23. E. —

chains

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.

Jan. 2. 1896

January 3. 1896: At
 12^h 20.14^m A. M. l. m. t.,
 observe Polaris at
 western elongation, in
 accordance with in-
 structions 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

Subdivisions of
Chains station.

At 6^h 40^m ^{a.m.} l. m. t.,
I lay off the azimuth
of Polaris $1^{\circ}28'$ to the
east, and mark the
true meridian thus
determined, by cutting
a small groove in the
stone set yesterday, on
which the true meridian
falls 0.14 ins. west of the
mark determined by the
solar.

At 9^h 15^m a. m. l. m. t.,
I set off $32^{\circ}3'$ on the lat.
arc, $22^{\circ}48'$ on the decl.
arc. and mark the true
meridian determined
with the solar by a cross

T. 16 S. R. 23 E. - Continued

chains

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 Polaris
observation.

The solar apparatus,
by p. m. and a. m. obser-
vations, defines positions
for true meridians,
respectively about
0'8" east, and 0'11" west
of the meridian establish-
ed by the Polaris observa-
tion; therefore, I conclude
that the adjustments
are satisfactory.

The magnetic bearing
of the true meridian

Subdivision of
Chains

at 9^h 15^m a. m. l. m. t.,
is $N 12^{\circ} 20' W$; the angle
thus determined, reduced
by the table, page 100,
gives the mean mag.
decl. $12^{\circ} 18' East$.

From the sec. cor. already
described, I run

$S 0^{\circ} 1' E$, bet. sec's 23 and 24

Ascend gradually

6.51 Old road to Mines
bears $N. E.$ and $S. W.$

9.03 Dry wash, 8 lks. wide, course $N. E.$

27.37 Dry wash, 18 lks. wide, course $N. E.$

29.30 Dry wash, 20 lks. wide, course $N. N. E.$

38.50 Old road from Mines

to Dragon Summit
bears $N. W.$ and $S. E.$

40.00 Set a line stone $18 \times 10 \times 8$

T. 16 S. R. 23 E. - Continued

Minerals

ins., 12 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.
 The S. E. cor. of the Apache
 Chief Mining Claim bears
 $N 31^{\circ} E - 204$ lks.

N. S. Mineral Monument
 of the Dragon Mining
 District bears $S 67\frac{3}{4}^{\circ} W$

15.73 chs. distant

A shaft bears $N 42\frac{1}{2}^{\circ} W$

9.00 chs. distant

A house bears $N 60^{\circ} W$

13.46 chs. distant

A house bears $N 64\frac{1}{4}^{\circ} W$

Chains

Subdivisions of

14.85 chs. distant

A house bears $N67\frac{1}{4}^{\circ}W$.

16.37 chs. distant

A shaft bears $N71\frac{1}{4}^{\circ}W$

12.40 chs. distant

A shaft bears $S87\frac{1}{2}^{\circ}W$

11.60 chs. distant

A shaft bears $S90^{\circ}W$

8.34 chs. distant

A shaft bears $S87^{\circ}W$.

9.85 chs. distant.

Old stone house bears

 $S86\frac{1}{4}^{\circ}W$. 20.65 chs. distantOre bin, bears $S85\frac{3}{4}^{\circ}W$.

25.20 chs. distant

Hoist, bears $N83\frac{1}{4}^{\circ}W$.

26.66 chs. distant.

Old furnace, used by

blacksmith bears $S82\frac{1}{2}^{\circ}W$.

T. 16 S. R. 23 E. - Continued

Chains

27.40 chs. distant

A shaft bears $S 85^{\circ} W$.

30.33 chs. distant

Hoist. bears $S 81\frac{1}{4}^{\circ} W$

26.37 chs. distant

A shaft, bears $S 68\frac{1}{2}^{\circ} W$

17 chs. distant

A shaft, bears $S 63\frac{1}{2}^{\circ} W$

30.46 chs. distant.

A shaft. bears $S 62\frac{1}{2}^{\circ} W$

30.60 chs. distant

A shaft. bears $S 58\frac{1}{2}^{\circ} W$

35.33 chs. distant

A shaft. bears $S 57^{\circ} W$

25.10 chs. distant.

A shaft. bears $S 56\frac{1}{2}^{\circ} W$

15.53 chs. distant

49.61 Dry wash, 15 lks. wide, course N.E.

A house (A) bears $S 50\frac{1}{4}^{\circ} W$

Subdivision of

Chains

- A house (a) bears $S 80\frac{1}{2}^{\circ} W$.
- 59.88 Dry wash, 20 lks. wide, course E .
- 60.05 A house (a) bears $N 76^{\circ} W$.
- A house (b) bears $N 63\frac{3}{4}^{\circ} W$.
- 64.13 Old road bears $N. E. \frac{2}{3}$ of $S. W.$
- 67.05 Dry wash, 15 lks. wide, course $N. E.$
- 69.49 Lumber house, bears $N 58^{\circ} E$.
- 72.60 Dry wash, 25 lks. wide, course $N. E.$
- 73.31 Dry wash, 10 lks. wide, course $N. E.$
- 73.50 Ascend ridge
- 80.00 Set a lime stone $18 \times 7 \times 6$ ins., 12 ins. in the ground for cor. of secs 23, 24, 25 $\frac{2}{3}$ of 26, marked
- T 16 S, on $N. E.$ and $R. 23 E.$, on $S. E.$ faces; with 2 notches on $S.$ and 1 notch on $E.$ edges, and raise a mound of

T. 16 S. R. 23 E - Continued

Chains

stone 2 ft. base, $1\frac{1}{2}$ ft. high,
W. of cor. - Pits impracticable

A shaft bears $N 74^{\circ} W$.

21.45 chs. distant.

A shaft bears $N 77^{\circ} W$.

15.33 chs. distant.

A shaft bears $N 72\frac{1}{4}^{\circ} W$

35.60 chs. distant.

Post, marked W. C. N^o 3

bears $N 59\frac{3}{4}^{\circ} W$ - 14.85 chs.

Post, marked E. C. N^o 6

bears $N 8\frac{1}{4}^{\circ} E$, 13.35 chs.

distant.

A shaft bears $N 47\frac{1}{2}^{\circ} E$

14.17 chs. distant.

A tunnel bears $N 55^{\circ} E$.

15.68 chs. distant

A shaft bears $N 59\frac{1}{4}^{\circ} E$.

16.65 chs. distant.

Subdivision of
Chains

Lumber house bears
 $N 16 \frac{3}{4}^{\circ} E.$

A shaft bears $N 21^{\circ} E.$
13.50 chs. distant

Land mountainous
Soil, hard and gravelly
No timber; undergrowth
scattering mesquite
Mountainous land 80 chs.

$S 89^{\circ} 50' E.$, on a random
line bet. secs. 24 and 25

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

80.02 Intersect E. bdy. of Twp.
3 lks. N. of cor. of secs
19, 24, 25 and 30

Thence I run

$N 89^{\circ} 49' W.$, on a true
line bet. secs. 24 and 25

T. 16 S. R. 23 E. - Continued

Chains

- In dense sage and mesquite undergrowth
- 35.00 Leave dense undergrowth,
bears N. N. W. and S. S. E.
- 38.47 Trail, bears N. N. E. and S. S. W.
- 39.35 Dry wash, 20 lks. wide, course N
- 40.01 Set a lime stone 18x9x5
ins., 12 ins. in the ground
for $\frac{1}{4}$ sec. cor., marked
 $\frac{1}{4}$ on N. face; dig pits
18x18x12 ins., E. and W.
of stone, 3 ft. dist, and
raise a mound of earth
3 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high
N. of cor.
- 48.13 Old road leading to
Mines, bears N. W. and S. E.
- 49.00 Ascend
- 51.00 Top, bears N. and S.; and descend
- 53.00 Bottom.

Subdivision of

Chains

- 57.00 Ascend along N. Slope
of ridge
- 75.00 Top. and descend
- 80.02 The cor. of secs. 23, 24, 25³/₄ & 26
Land rolling and mountainous,
Soil, gravelly loam; 2nd and 3rd lots
No timber; under growth
sage and mesquite
Mountainous or land
covered with dense under-
growth 66 chs.

So° 1' E, bet. secs. 25 and 26
ascending ridge

- 4.00 Top of ridge, bears E. and W.
and descend
- 12.00 Foot of ridge and enter
rolling land
- 38.00 Dry wash, 30 lks. wide, course E.

T. 16 S. R. 23 E. - Continued

Chains 40.00	Set a lime stone 15 x 9 x 4 ins., 10 ins. in the ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; and raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
50.20	Pits impracticable Dry wash, 30 lbs. wide, course E.
51.90	Dry wash, 25 lbs. wide, course N. N. E.
74.70	Descend
75.20	Enter bottom
75.25	Dry wash, 10 lbs. wide, course E.
75.30	Ascend
75.40	Top, bears E. and W.
80.00	Set a pine post, 3 ft. long, 4 ins. sq., with marked stone, 24 ins. in the ground for cor. of secs. 25, 26, 35 and 36, marked

Chains

Subdivision of

T. 16 S. S. 25 on N.E.,
 R. 23 E. S. 36 on S.E.
 S. 35 on S.W., and
 S. 26 on N.W. faces; with
 1 notch on S. and E.
 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.

Land mountainous and
 rolling.

Soil, hard and gravelly,
 3rd rate

No timber; undergrowth
 scattering mesquite
 and acotillo

Mountainous land 12 chs.

T. 16 S. R. 23 E. - Continued

chains.

- $S 89^{\circ} 49' E$, on a random
 line bet. secs. 25 and 36
 40.00 Set temp. $\frac{1}{4}$ sec. cor
 80.06 Intersect E. bdy. of Tps;
 3 lks. N. of cor. of secs.
 25, 30, 31 and 36
 Thence I run
 $N 89^{\circ} 48' W$, on a true line
 bet. secs. 25 and 36
 Over rolling land
 through scattering
 mesquite undergrowth
 11.80 Road leading to Mines
 bears N.W. and S.E.
 26.10 Dry wash, 10 lks. wide, course N.N.E.
 27.60 Dry wash 15 lks. wide, course N.E.
 27.70 Old road leading to
 Mines bears N.N.E. $\frac{2}{3}$ of S.S.W.
 40.03 Set a sand stone $14 \times 8 \times 6$

Subdivision of
 Chains ins., 9 ins. in the ground
 for $\frac{1}{4}$ sec. cor., marked
 $\frac{1}{4}$ on N. face; dig pits
 18x18x12 ins., E. and W. of
 stone 3 ft. dist. and raise
 a mound of earth $3\frac{1}{2}$ ft.
 base, $1\frac{1}{2}$ ft. high, N. of
 cor.

80.06 The cor. of secs. 25, 26, 35²/₃ of 36
 Land rolling
 Soil, gravelly loam; 2nd rate
 No timber; undergrowth
 scattering mesquite

S 0° 1 E., on a random line
 bet. secs. 35 and 36

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

80.05 Intersect S. bdy. of Twp.
 6 lks. W. of cor. of secs.

T. 16 S. R. 23 E. - Continued

Chains

1, 2, 35 and 36, as heretofore described.

Thence I run
on a true line

No^o 4' W₁ bet. secs. 35 and 36

Over rolling land; ascend

.50 Top of ascent bears N.E. ^{2nd} of S.W.

3.80 Descend

4.20 Enter bottom, bears E. and W.

4.25 Dry wash, 10 lbs. wide, course E.

4.30 Ascend

4.60 Top, bears E. and W.

5.00 Enter dense sage under growth, bears E. and W.

8.50 Old road, bears N.E. ^{2nd} of S.W.

12.75 Descend

13.50 Enter bottom, bears E. ^{2nd} of W.

15.40 Dry wash, 40 lbs. wide, course E.

15.80 Ascend

16.40 Top, bears E. and W.

Subdivision of

Chains

- 17.00 Leave dense sage undergrowth, bears N.E. ^{2nd} S.W.
- 30.15 Dry wash, 50 lbs. wide, course N.W.E.
- 40.05 Set a pine post, 3 ft. long, 4 ins. sq. with marked stone 24 ins. in the ground for 4 sec. cor. marked $\frac{1}{4}$ S. on W. face; dig pits 18x18x12 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.
- 41.00 Descend
- 46.30 Dry wash, 15 lbs. wide, course N.W.E.
- 47.90 Dry wash, 10 lbs. wide, course N.W.E.
- 51.00 Dry wash, 20 lbs. wide, course N.W.E.
- 52.00 Bottom, bears E and W.
- 58.00 Ascend

T. 16 S. R. 23 E. - Continued

Chains.

- 58.10 Ascend steeper
- 63.00 Top of ridge, bears E. and W.
and descend
- 73.00 Enter Bottoms, bears E. ²/₄ W.;
thence over gently rolling
land
- 80.05 The cor. of secs. 25, 26, 35 ²/₄ 36
Land rolling
Soil, hard ²/₄ gravelly;
2nd and 3rd rate
No timber; undergrowth
sage, mesquite ²/₄ sotillo
Mountainous or land
covered with dense
undergrowth 32.00 chs.
January 3, 1896

From the cor. of secs.
13, 14, 23 and 24, I run
N 0° 1' W, bet. secs. 13 ²/₄ 14

Subdivision of

Chains

- Over level and gently rolling land, descend
- 2.27 Road from Dragoon Summit to Sulphur Spring Valley bears $N 85^{\circ} W$ and $S 85^{\circ} E$
- 2.32 Dry wash, 6 lks. wide course $S 85^{\circ} E$
- 2.40 Bottom, and enter level land
- 2.55 Trail, bears E. and W.
- 27.60 Descend
- 30.00 Bottom ²/₃ of enter draw bears N. Easterly ²/₃ of S. Westerly
- 30.70 Trail, bears E. and W.
- 31.60 Old road, bears N. Easterly ²/₃ of South Westerly
- 36.10 N.W. cor. of enclosure, bears 4 lks. E.
- 38.00 Leave draw ²/₃ of ascend

T. 16 S. R. 23 E. - Continued

Chains
40.00

Set a limestone, 12 x 8 x 6 ins., 8 ins. in the ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; dig pits 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.

40.10 Top, bears N. Easterly $\frac{2}{3}$ of S. Westerly

53.43 Trail, bears N. N. E $\frac{2}{3}$ of S. S. W.

62.35 Trail bears N. E. and S. W.

88.00 Set a pine post, 3 ft long, 4 ins. sq. with marked stone, 24 ins. in the ground for cor. of secs. 11, 12, 13, and 14, marked

T. 16 S. S. 12 on N. E.

Subdivision of
 Chains. R. 23 E. on S. E.,
 S. 14 on S. W., and
 S. 11 on N. W., ^{faces} with 4
 notches on S. and 1 notch
 on E. edges; dig pits
 18 x 18 x 12 ins., in each
 sec. 5 1/2 ft. dist. and
 raise a mound of earth
 4 ft. base, 2 ft. high, W. of cor.
 Land level and gently rolling
 Soil, sandy loam, 2nd rate
 No timber

S 89° 50' E, on a random
 line bet. secs. 12 and 13
 40.00 Set temp. 1/4 sec. cor.
 79.90 Intersect E. bdy. of Twp.
 5 lks. S. of cor. of secs.
 7, 12, 13 and 18

T. 16 S. R. 23 E. - Continued

Chains

Thence I run

N 89° 52' W, on a true line
bet. secs. 12 and 13

Over gently rolling land

13.55 Trail, bears N. E. ²/₄ of S. W.

13.77 Trail, bears N. E. ²/₄ of S. W.

15.94 Old road, bears N. E. ²/₄ of S. W.

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

39.95 Set a pine post, 3 ft.

long, 4 ins. sq, with
marked stone, 24 ins.

in the ground for ¹/₄ sec.

cor., marked 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 ¹/₂ ft.

base, 1 ¹/₂ ft. high, N. of cor.

71.10 Trail, bears N. E. ²/₄ of S. W.

Subdivisions of

Chains

79.90

The cor. of secs. 11, 12, 13^{2d} & 14

Land gently rolling

Soil, sandy loam; 2nd rate

No timber

No 1' W, bet. secs. 11^{2d} & 12

Over level land

31.55 Road from Dragoon

Summit to Wilcox bears

N 29° 56' E^{2d} & S 29° 56' W

32.51 Telegraph line, bears

N 29° 56' E^{2d} & S 29° 56' W

34.00 Middle of single track

of the Southern Pacific

Railroad bears N 29° 56' E

& S 29° 56' W

35.33 Telegraph line, bears

N 29° 56' E^{2d} & S 29° 56' W

35.76 Road from Dragoon

T. 16 S. R. 23 E. — Continued

Chains

Summit to Willcox

bears $N 29^{\circ} 56' E$ ^{2nd} $S 29^{\circ} 56' W$.

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

70.00 Trail, bears E and W.

80.00 Set a pine post, 3 ft long, 4 ins. sq. with marked stone 24 ins. in the ground for cor. of secs. 1, 2, 11 and 12, marked T. 16 S., S. 1 on N. E.

Subdivision of

Chains

R. 23 E. S. 12 on S. E.

S. 11 on S. W. and

S. 2 on N. W. faces with
5 notches on S. and 1 notch on E. edges,
dig pits 18 X 18 X 12 ins.

in each sec. 5½ ft. dist.

and raise a mound of
earth 4 ft. base, 2 ft.

high, W. of cor.

Land level ^{2d} gently rolling

Soil, sandy loam; 2nd rate

No timber

S 89° 52' E, on a random
line bet. secs. 1 and 12

40.00 Set temp. ¼ sec. cor.

79.76 Intersect E. bdy. of Tp.

4 lbs N. of cor. of secs.

1, 6, 7 and 12.

Thence Run

T. 16 S. R. 23 E. - Continued

Chains

$N 89^{\circ} 50' W$, on a true line
bet. sees. 1 and 12

Over gently rolling land

6.14 Trail, bears $N. E.$ and $S. W.$

39.83 Set a pine post, 3 ft. long,
4 ins. sq., with marked
stone, 24 ins. in the ground
for $\frac{1}{4}$ sec. cor., marked
 $\frac{1}{4}$ S. on N. face; dig
pits $18 \times 18 \times 12$ 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.

50.41 Road from Dragoon
Summit to Willcox
bears $N. E.$ and $S. W.$

51.49 Telegraph line, bears
 $N 29^{\circ} 56' E$ and $S 29^{\circ} 56' W$.

Subdivision of

Chains

- 53.30 Middle of single track
of the Southern Pacific
Railroad, bears $N 29^{\circ} 56' E$
and $S 29^{\circ} 56' W$.
- 54.10 Telegraph line, bears $N 29^{\circ} 56' E$
and $S 29^{\circ} 56' W$.
- 54.27 Road from Dragoon-
Summit to Wilcox
bears $N 29^{\circ} 56' E$ $\frac{2}{3}$ of $S 29^{\circ} 56' W$.
- 79.76 The cor. of secs. 1, 2, 11 $\frac{2}{3}$ of 12
Land gently rolling
Soil, sandy loam; $\frac{1}{2}$ rate
No timber.
-
- $N 0^{\circ} 1' W$, bet. secs. 1 $\frac{2}{3}$ of 2
Over rolling land
- 11.50 Descend
- 14.35 Bottom and enter draw
bears N . Easterly $\frac{2}{3}$ of S . Westerly

T. 16 S. R. 23 E. - Continued

- Chains
 16.00 Leave draw $\frac{2}{3}$ of ascend
 16.40 Trail, bears $N 80^{\circ} E \frac{2}{3}$ of $S 80^{\circ} W$
 17.00 Top, bears $N. Easterly \frac{2}{3}$ of $S. Westerly$
 37.95 Trail, bears $N. E \frac{2}{3}$ of $S. W.$
 40.00 Set a sand stone $15 \times 8 \times 5$ 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.
 56.00 Trail, bears $N. N. E. \frac{2}{3}$ of $S. S. W.$
 78.55 Intersect the "Third
 Standard Parallel South"
 at a point 5.94 chs.
 $N 89^{\circ} 45' W.$ of the standard
 cor. of secs. 35 and 36, T.
 15 S. R. 23 E, at which

Subdivisions of

Chains

point I set a sandstone $16 \times 10 \times 8$ ins., 11 ins. in the ground for closing cor. of secs. 1 and 2, marked C.C. on S., with 1 groove on E. and 5 grooves on W. faces, dig pits, $24 \times 18 \times 12$ ins. crosswise on each line E. and W., 3 ft., and S. of stone, 7 ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, S. of cor. Land gently rolling Soil, sandy loam; 2nd rate No timber

From cor. of secs. 14, 15, 22 and 23, as heretofore

T. 16 S. R. 23 E. — Continued

chains

- described, I run
 S 0° 1' E, bet. sees. 22 and 23
 Ascend gradually
- 2.30 Trail, bears N. N. E ^{2nd} of S. S. W.
- 10.50 Trail, bears N. E. ^{2nd} of S. W.
- 27.98 Trail, bears N 75° E ^{2nd} of S 75° W
- 40.00 Set a limestone 14 x 8 x 7
 ins., 9 ins., in the ground
 for $\frac{1}{4}$ sec. cor., marked
 $\frac{1}{4}$ on W. face; and raise
 a mound of stone, 2 $\frac{1}{2}$ ft.
 base, 1 $\frac{1}{2}$ ft. high, W. of cor.
 Pits impracticable
- 42.00 Dry wash, 8 lks. wide, course N. W.
- 53.00 Descend
- 58.00 Foot of descent, bears N. W. ^{2nd} of S. E.
 and ascend
- 65.00 Enter scattering mesquite
 and cedar timber ^{2nd} of under-
 growth, bears E. and W.

Subdivision of

Chains

72.00

Top bears E + N, descend

75.50

Bottom and
Dry wash 30 lbs. wide, course 20

76.30

Ascend

79.20

Dry wash, 30 lbs. wide, course N. 4. 2

80.00

Set a lime stone 15x10x7

ins., 10 ins. in the ground
for cor. of secs. 22, 23, 26²/₇,
marked

T. 16 S. on N. E.; and

R. 23 E. on S. E. faces;

with 2 notches on S. ²/₇

E. edges; and raise

a mound of stone, 2 ft

base, 1 1/2 ft. high, W. of cor.

Pits impracticable—

A cedar 20 ins. diam

bears N 5 E., 167 lbs. dist;

marked T. 16 S. R. 23 E.

S. 23 B. T.

T. 16 S. R. 23 E. - Continued

chains

A cedar 10 ins. diam., bears
 N. 13 $\frac{3}{4}$ ° W. 271 lks. dist., marked
 T. 16 S. R. 23 E. S. 22 B. T.
 No other trees within
 limits.

Land mountainous.

Soil, hard ^{2nd} and gravelly, ^{3rd} - ^{4th} - ^{5th} -
 Timber, scattering mes-
 quite, piñon and cedar;
 undergrowth, mesquite
 and cedar.

Mountainous land sochs.

— At this cor. I dis-
 continue on account of
 mountains.

January 4, 1896

January 5, 1896: At
 8^h 50^m ^{A.M.}, C. M. T., I set

Subdivision of
 chains

off $32^{\circ} 3'$ on the lat. arc,
 $22^{\circ} 36'$ S on the decl. arc;
 and determine a true
 meridian with the solar
 at the cor. of secs. 14, 15,
 22 and 23, as heretofore
 described. Thence Truss
 $N 0^{\circ} 1' W$, bet. secs. 14^{2d} & 15^{2d}
 Over rolling^{2d} mountainous
 land, descending

4.00 Trail, bears $N. N. E.$ ^{2d} & $S. S. W.$

8.50 Enter Valley, course E.

11.00 Trail, bears E. and W.

11.38 Road leading to
 Sulphur Spring Valley
 bears $N 05^{\circ} W$ ^{2d} & $S 05^{\circ} E.$

11.88 Dry wash, 4 lks. wide, course E

12.10 Road from Dragoon
 Summit to Willcox

T. 16 S. R. 23 E. - Continued

Chains

- bears $N 80^{\circ} E$ $\frac{2}{3}$ of $S 80^{\circ} W$
- 12.90 Trail, bears E. and W.
- 15.45 Telegraph line, bears
N. Easterly $\frac{2}{3}$ of Westerly
- 15.65 Road from Dragoon
Summit to Willcox
bears N. Easterly $\frac{2}{3}$ of Westerly
- 16.15 Middle of single track
of the Southern Pacific
Railroad, bears N. Easterly
and Westerly
- 18.70 Road from Dragoon
Summit to Willcox,
bears N. Easterly $\frac{2}{3}$ of Westerly
- 16.82 Telegraph line, bears
N. Easterly $\frac{2}{3}$ of Westerly
- 17.00 Ascend
- 28.75 Dry wash, 6 Mts. wide, course N.E.
- 30.00 Ascend steeper

Subdivision of T. 16 S. R. 23 E. - Continued

Chains

- 35.60 Top, bears E. and W.; descend
- 40.00 Set a lime stone $18 \times 8 \times 4$ ins., 12 ins. in the ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; and raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor. Pits impracticable
- 43.50 Foot of ridge, and enter rolling land
- 70.00 Enter dense sage under growth, bears E and W.
- 80.00 Set a lime stone $15 \times 15 \times 4$ ins., 10 ins. in the ground for cor. of secs 10, 11, $14\frac{2}{3}$, 15, marked
T. 16 S. on N. E.,
R. 23 E. on S. E. faces;
with 4 notches on S.

Continued, Book 862.

Concluded, Book 863.