

1511

BOOK 1511

1511

4-671

FIELD NOTES
GENERAL LAND OFFICE.

S. bdy. of T.16 S. R.15 E.

N., S & W. boundaries

of T.12 S. R.12 E.

S. bdy. of T.11 S. R.11 E.

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South Body	T 16 S	R 15 E	— 4
"	T 12 S	R 12 E	— 18
North	T 12 S	R 12 E	— 32
West	T 12 S	R 12 E	— 49
East Body	T 11 S	R 11 E	— 64
South	T 11 S	R 11 E	— 83

15-11

BOOK 1511

Field-Notes
of the survey of the
South boundary of T. 16 S. R. 15 E.,
S., N., and W. boundaries of T. 12 S. R. 12 E.,
West boundary of T. 11 S. R. 12 E.
and South boundary of T. 11 S. R. 11 E.
of the

Gila and Salt River Base ^{2d} Meridian
in the

Territory of Arizona

as surveyed by

Philip Contzen,

U. S. Deputy Surveyor

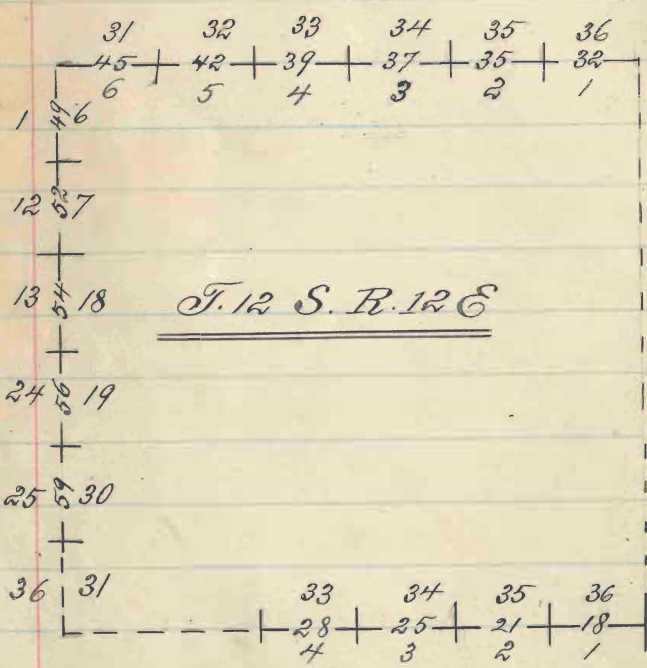
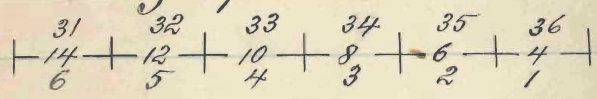
Under his contract N^o 36

Survey commenced June 10, 1895

Survey completed July 3, 1895.

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S. bdy. of T. 16. S. R. 15 E



BOOK 1511

In dex

J. H. S. R. H. E.

1 6
 12 7
 13 18
 24 19
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 36 31

31	32	33	34	35	36
92	91	89	87	85	83
6	5	4	3	2	1

S. bdy. of T. 16. S. R. 15 E. —
Chains

June 10th 1895: At the cor
of Tps. 16 and 17 S. R's 15
and 16, which I reestablished

June 7th 1895, latitude
32° N., longitude 110° 45' W.

At 9^h 30^m a.m. l.m.t.,
I set off 32° N. on the lat. arc,
23° 3' N. on the decl. arc; and
determine a true meridian
with the solar.

Thence I run

West, bet secs. 1 and 36

Over level land through
scattering undergrowth

40.00 Set a mesquite post,
3 ft. long, 3 ins. sq.,
with marked stone, 24
ins. in the ground, for
1/4 sec. cor, marked 1/4 S

S. hdy of T. 16. S. R. 15 E - Continued

Chains

on N. face, from which
 A mesquite 12 ins. diam
 bears $S 79 \frac{1}{2}^{\circ} W$, 195 lks
 dist, marked $\frac{1}{4}$ S. B. T.
 No other tree within limits;
 dig pits $18 \times 18 \times 12$ ins., E
 and W of cor, and raise
 a mound of earth $3 \frac{1}{2}$ ft
 base, $1 \frac{1}{2}$ ft. high, N. of cor.
 80.00 Set a granite stone
 $16 \times 12 \times 5$ ins., 11 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;
 dig pits $18 \times 18 \times 12$ ins. in
 each sec. $5 \frac{1}{2}$ ft. dist, and
 raise a mound of earth
 4 ft. base, 2 ft. high, W. of

S. bdy. of T. 16. S. R. 15 E., Continued

Chains

cor., (a mesquite 12 ins.
diam. bears $N 85\frac{1}{2}^{\circ} W$,
312 lks. dist., marked
T. 16. S. R. 15 E. S. 35. B. T.
No trees within limits.

Land, level

Soil, rich loam; 1st rate
Timber, a few mesquites,
undergrowth mesquite

West, bet. secs 2 and 35

Over level land, through
scattering undergrowth

35.20 Road bears N. W and S. E

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
N. face, from which

S. bdy of T. 16. S. R. 15 E - Continued
Chains

A mesquite 4 ins. diam
bears $N 34^{\circ} E$, 69 fms. dist,
marked $\frac{1}{4}$ S. B. T.

A mesquite 4 ins. diam
bears $N 3^{\circ} W$, 128 fms. dist,
marked $\frac{1}{4}$ S. B. T.

80.00 Set a malpais stone
 $18 \times 12 \times 4$ ins., 12 ins., in
the ground for cor. of
secs. 2, 3, 34 and 35, marked
with 2 notches on E. and
4 notches on W. edges,
from which.

A mesquite 8 ins. diam.
bears $S 42\frac{1}{2}^{\circ} W$, 59 fms. dist,
marked T. 17 S. R. 15 E.

S. 3. B. T.; no other trees
within limits; dig pits ^{$18 \times 18 \times 12$ ins.}
in secs. 2, 34 and 35, $5\frac{1}{2}$

S. bdy. of T. 15 S. R. 15 E - Continued
Chains

ft. dist. and raise a mound of earth 4 ft base, 2 ft high, W. of cor. Land level

Soil, rich loam; 1st rate
Timber, a few mesquites,
undergrowth mesquite.

West., bet. secs 3 and 34
Over level land through
undergrowth

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 N. face; from which a mesquite 4 ins. diam bears North, 50 lks. dist.

S. bdy. of T. 16. S. R. 15 E. - Continued
 Champs

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

A. mesquite 4 ins. diam.
 bears $S 82 \frac{1}{4}^{\circ} W$. 96 lks. dist.
 marked $\frac{1}{4}$ S. B. T.

- 40.60 Dry Wash 10 lks wide, course N.W.
- 59.62 Dry Wash 5 lks wide, course N.W.
- 76.53 Dry Wash 6 lks wide, course N.W.
- 80.00 Set a sand stone $15 \times 12 \times 10$
 ins, 10 ins. in the ground
 for cor. of secs. 3, 4, 33 and 34,
 marked with 3 notches
 on E and W. edges; dig
 pits $18 \times 18 \times 12$ ins. in each
 sec. $5 \frac{1}{2}$ ft. dist; and raise
 a mound of earth 4 ft.
 base, 2 ft. high, W. of cor.,
 (A mesquite 6 ins diam.
 bears $N 44 \frac{1}{2}^{\circ} W$, 509 lks
 dist., marked T. 16. S.

S. bdy. of T. 16 S. R. 15 E - Continued
Chains

R. 15. E. S. 33. B. T.)

Land, level

Soil, rich loam; 1st rate

Timber, a few mesquite,
undergrowth, mesquite.

West, bet. sees 4 and 33

Over level land, through
scattering timber

- 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 N. face; from which
A mesquite 6 ins diam.
bears N 50° E, 33 lbs dist,
marked $\frac{1}{4}$ S. B. T.
A mesquite 4 ins. diam.

S. bdy. of T. 16 S. R. 15 E - Continued
 Charn

bears $S 8\frac{1}{2}^{\circ} W$, 73 lks dist,
 marked $\frac{1}{4}$ S. B. T.

80.00 Set a sand stone $16 \times 12 \times 10$
 ins., 12 ins. in the ground
 for cor. of secs 4, 5, 32
 and 33, marked with
 4 notches on E. and 2
 notches on W. edges;
 from which

A mesquite 7 ins. diam,
 bears $S 48^{\circ} W$. 262 lks dist,
 marked T. 17 S. R. 15. E.

S. S. B. T., no other trees
 within limits; dig
 pits $18 \times 18 \times 12$ ins. in secs.
 4, 32 and 33, $5\frac{1}{2}$ ft. dist,
 and raise a mound of
 earth 4 ft. base, 2 ft. high
 W. of cor.

S. bdy. of T. 16 S. R. 15 E - Continued
Chain

S. 31. B. T.

A mesquite 12 ins. diam.
bears $S44^{\circ}W$, 51 lks dist,
marked T. 17 S. R. 15 E. S.
6 B. T. no other trees
within limits, dig pits
 $18 \times 18 \times 12$ ins. in secs 5
and 32, $5\frac{1}{2}$ ft. dist, and
raise a mound of earth
4 ft base, 2 ft high, W.
of cor.

Land, level

Soil loam, 1st and 2nd rate

Timber, mesquite, under-
growth mesquite.

Dense undergrowth 20.50 chs

West, bet secs 6 and 31

Over level sand, through

S. bdy. of T. 16. S. R. 15 E - Continued

Chains

scattering timber

11.70 Road bears N.W. and S. E

40.00 Set a granite stone
 15 x 14 x 4 ins. 10 ins. in
 the ground for $\frac{1}{4}$ sec.
 cor. marked $\frac{1}{4}$ S. on
 N. face; from which
 a mesquite 4 ins. diam.
 bears S 63° W, 92 Mts. dist.
 marked $\frac{1}{4}$ S. B. T.; no
 other tree within limits;
 dig pits 18 x 18 x 12 ins.
 East 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.

79.60 Intersect W. bdy, at a
 point 21.18 chs. North of
 cor. of Tps 16 and 17 S. R. 14 E,

S. bdy. of T. 16. S. R. 15 E. - Concluded
 Champs

at which point I set a
 granite stone $22 \times 14 \times 4$
 ins. 16 ins in the ground,
 for closing cor. of T. 16 and
 17 S. R. 15 E., marked C.C.,
 on E.; with 6 grooves on
 N, S. and E. faces; from
 which

A mesquite 6 ins diam.
 bears $N 35 \frac{3}{4}^{\circ} E$, 150 lks. dist,
 marked T. 16. S. R. 15 E. S. 31. B. T.

A mesquite 4 ins. diam, bears
 $S 35 \frac{3}{4}^{\circ} E$, 155 lks. dist, marked
 T. 17. S. R. 15 E. S. 6. B. T.

Land level
 Soil, loam; 1st rate
 Timber, mesquite

June 10th 1895.

S. hdy of T. 12. S. R. 12 E, Continued

June 28. 1895: At the cor
of Tps. 12 and 13 S. Rs 12 and
13 E, as heretofore des-
cribed. Lat. $32^{\circ} 20'$ Long. $111^{\circ} 37'$

At 7 h. 15 m a. m. l. m. t.
I set off $32^{\circ} 20'$ N. on the
lat. arc, $23^{\circ} 18'$ N. on the
decl. arc, and determine
a true meridian with
the solar.

Thence, I run
West, bet. secs 1 and 36
Over level land

- .70 Trail bears N. E. and S. W.
1.45 Trail bears N. E. and S. W.
3.17 Trail bears N. E. and S. W.
8.26 Telegraph line bears $N 42^{\circ} 17' W$ $2^{\circ} 44' 1/2$
9.26 Middle of single track
of the Southern Pacific

S. bdy of T. 12 S. R. 12 E - Continued

- Railroad bears $N 42^{\circ} 17' W \frac{1}{4} A. 12 E$
- 10.47 Road from Tucson, bears $N W \frac{1}{4} 12 E$
- 10.26 Telegraph line, bears $N 42^{\circ} 17' W \frac{1}{4} A. 12 E$
- 11.44 Wire fence bears N.W. and S.E.
- 27.77 Trail bears N and S.
- 40.00 Set a malpais stone
 $14 \times 14 \times 10$ ins, 8 ins in
 the ground for $\frac{1}{4}$ sec.
 cor. marked $\frac{1}{4}$ on N. face,
 from which
 A mesquite 8 ins. diam.
 bears $N 23^{\circ} E$, 185 lks. dist.,
 marked $\frac{1}{4}$ S. B. T.
- A mesquite 6 ins. diam
 bears $S 31^{\circ} W$, 148 lks.
 dist., marked $\frac{1}{4}$ S. B. T.
 and enter dense mesquite
 timber
- 42.08 Road bears N.W. and S.E.

S. bdy. of T. 12 S. R. 12 E. - Continued
Chains

- 67.17 Wire fence, bears N. N. W $2\frac{1}{2}$ S. S. E.
- 78.04 Brush fence, bears N and S.
- 79.00 Set a malpais stone
16 x 6 x 6 ins., 12 ins. in the
ground for witness cor.
to cor. of secs 1, 2, 35 and
36, marked W. C. on W.
face, with 1 notch on
E and 5 notches on W.
edges, from which
a mesquite 16 ins. diam
bears $N 59\frac{1}{2}^{\circ} E$, 39 fms. dist.,
marked ^{W.C.} S. 12 S. R. 12 E.
S. 36. B. T. ^{No other trees within limits} dig pits 18 x 18 x 12
ins., in secs 1 and 36, 5 $\frac{1}{2}$
ft. dist., and raise a
mound of earth 4 ft
base, 2 ft high, W. of cor.
- 79.80 Leave dense mesquite

S. bdy of S. 12 S. R. 12 E - Continued
Chains

timber and enter dry bed
of Santa Cruz River
course N. N. W.

80.00 The point for cor. of
secs. 1, 2, 35 and 36

Land, level

Soil, rich loam; 1st rate

Timber, mesquite

Heavily timbered land

39.80 chs.

West, bet. secs. 2 and 35

Over level and rolling land

5.00 Leave dry bed of Santa
Cruz River course N. N. W.

and enter dense under-
growth

15.42 Irrigating ditch, course N.

17.50 Trail bears N. W. and S. E

S. ldy of T. 12 S. R. 12 E - Continued
 Chains

- 21.28 Road bears N. W. and S. E.
 From the center of the road
 Antonio Cañas house
 bears $N 58\frac{1}{2}^{\circ} W$. 6.51 chs.
- 30.55 Brush fence bears N. E. and S. W.
- 30.80 Brush fence bears N. W. and S. E.
- 37.00 Dry wash 10 lks wide, course N. E.
- 40.00 Set a volcanic stone
 16 x 12 x 6 ins. 11 ins in the
 ground for $\frac{1}{4}$ sec. cor.
 marked $\frac{1}{4}$ on N. face;
 from which
 A mesquite 6 ins. diam
 bears $N 47\frac{1}{4}^{\circ} E$. 114 lks. dist.
 marked $\frac{1}{4}$ S. B. T.
 A mesquite 4 ins. diam.
 bears $S 36\frac{1}{2}^{\circ} W$. 61 lks
 dist.; marked $\frac{1}{4}$ S. B. T.
 Leave dense mesquite

S. bdy of T. 12 S. R. 12 E - Continued
Chains

timber and undergrowth,
enter greasewood under
growth and ascend

41.45 Dry wash, 10 lks wide, course N.E.

55.00 Top of mesa, bears N and S.

58.15 Trail bears N. and S.

69.33 Dry wash, 60 lks wide, course
N.E.

73.60 Dry wash, 30 lks wide, course N.E.

80.00 Set a basalt stone
18 x 12 x 10 ins., 12 ins. in
the ground for cor. of
secs. 2, 3, 34 and 35,
marked with 2 notches
on E. and 4 notches on
W. edges, from which
a palo verde 10 ins.
diam bears N 42 1/4° E,
37 lks. dist, marked

S. ldy of T. 12 S. R. 12 E - Continued
Chains

T. 12 S. R. 12 E. S. 35. B. T.

A palo verde 8 ins. diam.
bears S46° E, 92 lks dist
marked T. 13 S. R. 12 E.
S. 2. B. T.

A palo verde 10 ins.
diam. bears S62 $\frac{1}{4}$ ° W
47 lks. dist.; marked
T. 13 S. R. 12 E. S. 3. B. T.

A palo verde 10 ins. diam
bears N17 $\frac{1}{2}$ ° W, 80 lks. dist.;
marked T. 12 S. R. 12 E. S.
34 B. T.

Land, level and rolling
Soil rich and gravelly
loam; 1st and 3rd rate
Timber, mesquite and
palo verde; under-
growth, mesquite and

S. bdy of T. 12 S. R. 12 E. - Continued

Chains

greasewood.

Heavily timbered or
land covered with
dense under growth 35 chs

West, bet sees 3 and 34
Over rolling mesa
through scattering
timber and under growth

- 2.85 Dry wash 20 lks wide, course N.E.
- 23.17 Dry wash 5 lks wide, course N.E.
- 30.30 Dry wash 10 lks wide, course N.E.
- 33.16 Road bears N.E. and S.W.
- 34.75 Trail bears N.E. and S.W.
- 37.40 Dry wash, 15 lks wide, course N.E.
- 39.90 Trail bears N.E. and S.W.
- 40.00 Set a sand stone 14 x 14 x 4
ins., 8 ins. in the ground
for $\frac{1}{4}$ sec. cor. marked

S. bdy. of T. 12 S. R. 12 E - Continued
Chains

$\frac{1}{4}$ on N. face; from which
A palo verde 12 ins. diam.
bears $N44\frac{1}{2}^{\circ}E$, 61 lks. dist.;
marked $\frac{1}{4}$ S. B. T.

A palo verde 6 ins. diam.
bears $S52^{\circ}W$, 42 lks. dist.;
marked $\frac{1}{4}$ S. B. T.

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

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

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

80.00 Set a malpais stone
17x12x4 ins, 11 ins. in the
ground for cor. of sec
3, 4, 33 and 34; marked
with 3 notches on E.
and W. edges; from which
A palo verde, 10 ins. diam.
bears $N48\frac{1}{4}^{\circ}E$, 48 lks. dist.

S. bdy. of T. 12 S. R. 12 E. - Continued
Chains

marked T. 12 S. R. 12 E.

S. 34. B. T.

A palo verde 10 ins. diam.
bears $S 75\frac{1}{2}^{\circ} E$, 57 $\frac{1}{2}$ lks.
dist., marked T. 13 S.

R. 12 E. S. 3. B. T.

A palo verde 12 ins. diam.
bears $S 55^{\circ} W$, 78 lks. dist.,
marked T. 13 S. R. 12 E.

S. 4. B. T.

A palo verde 8 ins. diam.
bears $N 63^{\circ} W$, 118 lks. dist.,
marked T. 12 S. R. 12 E.

S. 33. B. T.

Land, rolling
Soil, gravelly loam, 3rd rate
Timber, palo verde;
under growth greasewood.
A few giant cactus

S. bdy. of T. 12 S. R. 12 E - Continued
Chains

West, bet. secs 4 and 33

Over rolling mesa, through
scattering timber and
undergrowth

- 1.80 Dry wash 15 lks. wide, course N.E.
- 12.30 Dry wash 10 lks. wide, course N.E.
- 27.30 Dry wash 12 lks. wide, course N.E.
- 40.00 Set a sand stone 18x10x6 ins.
12 ins. in the ground for
 $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on
W. face; from which
A palo verde 4 ins. diam.
bears $N 28 \frac{1}{2}^{\circ} E$, 61 lks. dist.;
marked $\frac{1}{4}$ S. B. T.
- A palo verde 12 ins. diam.
bears $S 74 \frac{3}{4}^{\circ} W$, 37 lks. dist.;
marked $\frac{1}{4}$ S. B. T.
- 63.80 Dry wash, 15 lks. wide, course N.E.
- 67.75 Dry wash, 40 lks. wide, course N.E.

S. bdy of T. 12 S. R. 12 E. - Continued
 Chained

80.00 Set a granite stone
 20 x 12 x 10 ins., 18 ins. in the
 ground for cor. of secs.
 4, 5, 32 and 33, marked
 with 4 notches on E. and
 2 notches on W. edges,
 from which

A palo verde 5 ins. diam.
 bears $N 69\frac{1}{2}^{\circ} E$, 94 lks. dist.,
 marked T. 12 S. R. 12 E.

S. 33. B. T.

A palo verde 4 ins. diam.
 bears $S 73\frac{3}{4}^{\circ} E$, 81 lks. dist.,
 marked T. 13 S. R. 12 E.

S. 4. B. T.

A palo verde 12 ins. diam.
 bears $S 26\frac{1}{4}^{\circ} W$, 62 lks. dist.,
 marked T. 13. S. R. 12 E.

S. 5. B. T.

S. bdy of T. 12 S. R. 12 E. - Concluded
Chains

A palo verde 4 ins. diam
bears $N4\frac{1}{2}^{\circ}W$, 54 lks. dist.,
marked T. 12 S. R. 12 E.

S. 32. B. T.

Land, rolling
Soil, stony; 4th rate.
Timber, palo verde;
undergrowth greasewood.
A few giant cactus.

Note: I discontinue the S. bdy
of T. 12 S. R. 12 E. at cor. of
secs 4, 5, 32 and 33, as the re-
mainder runs over mountain-
ous land which is impracticable
for chaining.

June 28. 1895

N. bdy of T. 12 S. R. 12 E.

Chains

June 29. 1895: At 6^h 40^m
 l. m. t., I set off $32^{\circ} 25'$
 on the lat. arc; $23^{\circ} 15' N.$,
 on the decl. arc; and de-
 termine a true meridian
 with the solar, at the
 cor. of Tps. 11 and 12 S. Rs.
 12 and 13 E., as heretofore
 described.

Thence I run
 West, bet sees 1 and 36
 Over rolling land through
 scattering timber

- 1.30 Dry wash 6 lks wide, course S.W.
 7.85 Dry wash 4 lks. wide, course S.W.
 15.00 Dry wash, 25 lks. wide, course S.W.
 19.50 Dry wash, 100 lks. wide, course S.W.
 24.50 Dry wash, 100 lks wide, course S.W.
 26.00 Dry wash, 30 lks wide, course S.W.

N. hdy. of T. 12 S. R. 12 E - Continued

Chains

- 28.00 Dry wash 10 lks wide, course S.W.
- 31.30 Dry wash 10 lks wide, course S.W.
- 40.00 A palo verde 4 ins. diam.
for $\frac{1}{4}$ sec. cor, I mark
 $\frac{1}{4}$ S., on N. side; and
raise a mound of stone
2 ft. base, $1\frac{1}{2}$ ft high,
N. of cor. Cuts impracticable
- 40.10 Dry wash, 10 lks. wide, course S.W.
- 45.00 Dry wash, 5 lks. wide, course S.W.
- 55.67 Dry wash, 15 lks. wide, course S.W.
- 58.00 Trail bears N.E. and S.W.
- 61.80 Dry wash 10 lks wide, course S.W.
- 69.84 Dry wash 10 lks wide, course S.W.
- 80.00 Set a quartz stone 15x10x8
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.

N. bdy. of T. 12 S. R. 12 E - Continued
 Chains

edges; from which
 A mesquite 9 ins. diam.
 bears $N 37 \frac{1}{4}^{\circ} E$, 94 lks. dist.,
 marked T. 11 S. R. 12 E.

S. 36 B. T.

A mesquite 4 ins. diam.
 bears $N 62 \frac{1}{2}^{\circ} W$, 26 lks. dist.,
 marked T. 11 S. R. 12 E.

S. 35. B. T., no other
 trees within limits; dig
 pits $18 \times 18 \times 12$ ins. in secos
 1 and 2, $5 \frac{1}{2}$ ft. dist., and
 raise a mound of earth
 4 ft. base, 2 ft high, W. of cor.

Land, rolling
 Soil, sandy and gravelly
 loam; 3rd rate.

Timber, palo verde and
 mesquite

N. bdy. of T. 12 S. R. 12 E. - Continued

chains

- West, bet. secs. 2 and 35
Over rolling land, through
scattering palo verde and
mesquite timber
- .50 Dry wash, 25 lks wide,
course S. W.
- 5.15 Dry wash, 5 lks wide,
course S. W.
- 16.72 Dry wash 12 lks. wide, course S. W.
- 31.25 Dry wash 5 lks, wide, course S. W.
- 39.95 Enter dry wash, course S. W.
- 40.00 A palo verde 8 ins. diam
for $\frac{1}{4}$ sec. cor, I mark
 $\frac{1}{4}$ S. on N. side. dig pits 18x18x12
into S and W. of cor. 3 ft. dist. and raised a mound
of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, N. of corner.
- 45.00 Leave dry wash, course S. W.
- 60.40 Dry wash 140 lks wide,
course S. W.
- 71.00 Dry wash 25 lks. wide,
course S. S. W.

N. bdy of T. 12 S. R. 12 E. Continued
Chains

80.00 Set a granite stone
15 x 8 x 6 ins., 10 ins. in
the ground for cor. of
secs. 2, 3, 34 and 35, marked
with 2 notches on E. and
4 notches on W. edges;
from which

A mesquite, 12 ins. diam.
bears $N61^{\circ}E$, 292 lks. dist.,
marked T. 11 S. R. 12 E. S.
35. B. T.

A mesquite, 7 ins. diam.
bears $S54^{\circ}E$, 93 lks. dist.,
marked T. 12 S. R. 12 E.
S. 2. B. T.

A palr verde, 5 ins. diam.
bears $S12^{\circ}W$, 41 lks. dist.,
marked T. 12 S. R. 12 E.
S. 3. B. T.

N. bdy of T. 12 S. R. 12 E - Continued

Chains

An ironwood 6 ins. diam.
 bears N32° W. 222 lbs.
 dist., marked T. 11 S.
 R. 12 E. S. 34. B. T.

Land, rolling
 Soil, sandy loam; 3rd rate
 Timber, palo verde,
 mesquite and ironwood.

West, bet sees 3 and 34

Over rolling land,
 through scattering timber

- .50 Dry wash, 20 lbs. wide, course S.W.
 10.44 Dry wash, 10 lbs. wide, course S.W.
 16.60 Dry wash, 8 lbs. wide, course S.W.
 27.00 Dry wash 10 lbs. wide, course S.W.
 28.70 Dry wash 10 lbs. wide, course S.W.
 40.00 Set a granite stone 16x6x4
 ins., 11 ins. in the ground

N. bdy. of T. 12 S. R. 12 E. - Continued
Chains

for $\frac{1}{4}$ sec. cor., marked
 $\frac{1}{4}$ on N. face; from which
A mesquite 7 ins. diam.

bears N 70° W. 119 lks. dist.;
marked $\frac{1}{4}$ S. B. T

A palo verde 6 ins. diam
bears S $77\frac{1}{4}^{\circ}$ E, 22 lks.

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

65.23 Dry wash, 15 lks wide, course S.W.

69.42 Dry wash, 10 lks wide, course S.W.

80.00 Set a sand stone $15 \times 10 \times 8$
ins. 10 ins. in the ground
for cor. of secs. 3, 4,
33 and 34, marked
with 3 notches on E.
and W. edges; from which
A mesquite 8 ins. diam.
bears N $86\frac{3}{4}^{\circ}$ W, 204 lks.
dist.; marked T. 11 S.

N. bdy of T. 12 S. R. 12 E. - Continued
 Chains

R. 12 E. S. 33 B. T.

A mesquite 6 ins. diam.
 bears S $27\frac{1}{2}^{\circ}$ E, 50 lks.
 dist., marked T. 12 S.
 R. 12 E. S. 3. B. T., no
 other trees within
 limits; dig pits $18 \times 18 \times 12$
 ins. in secs 4 and 34,
 $5\frac{1}{2}$ ft dist., and raise
 a mound of earth
 4 ft. base, 2 ft. high
 W. of cor.

Land, rolling

Soil, sandy loam; 3rd rate
 Timber, palo verde,
 mesquite and ironwood.
 Some giant cactus.

West, bet. secs 4 and 33

N. bdy. of T. 12 S. R. 12 E. - Continued

Chains

Over rolling land, through
scattering timber

- 6.30 Dry wash, 10 lks. wide, course S.W.
9.70 Dry wash, 8 lks. wide, course S.
16.00 Dry wash, 20 lks. wide, course S.W.
25.22 Dry wash, 15 lks. wide, course S.W.
32.50 Dry wash, 100 lks. wide, course S.W.
40.00 Set a volcanic stone

14 x 10 x 4 ins. 8 ins. in
the ground for $\frac{1}{4}$ sec.
cor. marked $\frac{1}{4}$ on N.
face, from which
A mesquite 8 ins. diam.
bears N 44 $\frac{1}{2}$ ° W. 115 lks. dist.,
marked $\frac{1}{4}$ S. B. T.
An iron wood 5 ins.
diam. bears S 70° E.
123 lks. dist., marked
 $\frac{1}{4}$ S. B. T.

N. bdy of T. 12 S. R. 12 E. - Continued
 Chains

43.25 Dry wash, 5 lks. wide, course S.W.

47.50 Dry wash, 15 lks. wide, course S.W.

62.35 Dry wash, 10 lks. wide, course S.W.

70.30 Dry wash, 10 lks. wide, course S.W.

71.95 Dry wash, 11 lks. wide, course S.W.

77.00 Dry wash, 25 lks. wide, course S.W.

80.00 Set a malpais stone

16x12x10 ins., 11 ins. in

the ground for cor. of

secs. 4, 5, 32 and 33, marked

with 4 notches on E, and

2 notches on W. edges;

from which

A mesquite 10 ins. diam.

bears N44 $\frac{1}{4}$ °E, 176 lks. dist,

marked T. 11 S. R. 12 E.

S. 33. B. T.

A palo verde 10 ins. diam.

bears S62 $\frac{3}{4}$ °E, 130 lks. dist,

N. bdy. of T. 12 S. R. 12 E. - Continued
Chains

marked T. 12 S. R. 12 E.

S. 4. B. T.

An ironwood 4 ins.
diam. bears S 35° W,

143 lbs. dist.; marked
T. 12 S. R. 12 E. S. 5. B. T.

A palo verde 6 ins. diam.
bears N 88½° W; 88 lbs. dist.;
marked T. 11 S. R. 12 E.

S. 32. B. T.

Land, rolling

Soil, sandy loam; 3rd rate

Timber, palo verde,
ironwood and mesquite

West, bet. secs 5 and 32

Over gently rolling land,
through scattering timber

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

N. bdy of T. 12 S. R. 12 E - Continued

Chains

- 17.23 Dry wash, 40 lks. wide, course S.W.
- 19.53 Dry wash, 30 lks. wide, course S.W.
- 21.23 Dry wash, 20 lks. wide, course S.W.
- 28.80 Dry wash, 15 lks. wide, course S.W.
- 37.00 Dry wash, 10 lks. wide, course S.W.
- 38.80 Dry wash, 30 lks. wide, course S.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. or N.
face, from which
A palo verde, 10 ins. diam.
bears $N 23^{\circ} E$, 29 lks. dist.,
marked $\frac{1}{4}$ S. B. T.
- A palo verde, 15 ins. diam.
bears $S 34^{\circ} W$, 174 lks. dist.,
marked $\frac{1}{4}$ S. B. T.
- 42.35 Road bears N.E. and S.W.

N. bdy of T. 12 S. R. 12 E. - Continued

Chains

44.70 Dry wash, 20 lks. wide, course S.W.

52.22 Road bears N.E. and S.W.

59.90 Dry wash 20 lks. wide, course S.W.

66.55 Trail bears N and S.

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

80.00 Set a volcanic stone
17x12x12 ins., 11 ins. in
the ground for cor. of
secs. 5, 6, 31 and 32, marked
with 5 notches on E. and
1 notch on W. edges;
from which

A mesquite 6 ins. diam.
bears S 66° W, 17 lks. dist,
marked T. 12 S. R. 12 E.

S. C. B. T., no other
trees within limits;
dig pits 18x18x12 ins.,
in each sec. 5½ ft.

N. bdy of T. 12 S. R. 12 E - Continued

Chains

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 and 3rd ^{note}

Timber, palo verde, iron
wood and mesquite

West, bet. secs 6 and 31
over level land

- 1.00 Trail bears N. W. and S. E.
- 1.50 Wire fence bears N. W. and S. E.
- 12.19 Wire fence bears N. E. and S. W.
- 29.43 Road from Tucson bears
N. W. and S. E.
- 38.55 Trail bears N. W. and S. E.
- 40.00 Set a sand stone 15x14x6
ins. 10 ins. in the ground

N. bdy of T. 12. S. R. 12 E - Continued
Chains

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.

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

55.12 Road from Tucson, bears
N. W. and S. E.

61.15 Telegraphline bears $N49\frac{1}{2}W$ and $S49\frac{1}{2}E$.

62.21 Middle of single track
of Southern Pacific
Railroad bears $N49\frac{1}{2}W$ and $S49\frac{1}{2}E$.

63.27 Telegraphline bears $N49\frac{1}{2}E$ and $S49\frac{1}{2}W$.

64.59 Road from Tucson bears
N. W. and S. E.

65.22 Wire fence, bears N. W. and S. E.

65.82 Irrigating ditch, 15 lks. wide

N. bdy. of T. 12 S. R. 12 E - Continued

Chains

course N. W.

76.00 Enter plowed field bear
N. and S.

78.16 Set a granite stone
20 x 7 x 4 ins., 16 ins. in the
ground for cor. of Tps.
11 and 12 S. Rs 11 and 12 E,
marked with 6 notches
on each edge; dig pits
24 x 24 x 12 ins., on each
line, N., E., 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.

A mesquite 6 ins. diam
bears S 7¾° E, 5.84 chs.
dist. marked T. 12 S.
R. 12 E. S. 6. B. T.

N. bdy. of T. 12 S. R. 12 E. - Concluded
chains

Highest point of Picacho
bears $N43^{\circ}7'W$.

Baboquivari Peak bears
 $S29^{\circ}35'W$.

Land level

Soil, rich loam; 1st rate

No timber

June 29. 1895

W. bdy of T. 12. S. R. 12 E.
chains

July 1st. 1895: At 6^h 30^m
l. m. t., I set off $32^{\circ}25'$
on the lat. arc, $23^{\circ}8'N$.
on the decl. arc, and de-
termine a true meridian
with the solar, at the
cor. of Tps. 11 and 12 S.
Rs. 11 and 12 E., as here-
tofore described.

Thence, I run
South, bet. secs 1 and 6
over level land $\frac{2}{3}$ of plowed field

15.60 Leave plowed field bears
E and W.

36.90 Irrigating ditch, 5 lks. wide
course W.

36.98 Wire fence bears E. and W.

40.00 Set a granite stone
14 x 14 x 8 ins., 8 ins. in the

W. bdy. of T. 12 S. R. 12 E - Continued
Chains

ground, for $\frac{1}{4}$ sec. cor.,
marked $\frac{1}{4}$ on W. face;
from which
a mesquite 6 ins. diam.
bears $N 87\frac{1}{2}^{\circ} E$, 57 chs. dist.;
marked $\frac{1}{4}$ S. B. T., no
other tree within limits;
dig pits, ^{18x18x12 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.

J. Landis house bears
 $N 47\frac{1}{2}^{\circ} E$ 20 chs. dist.

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

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

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

71.00 Middle of dry bed of
Santa Cruz River, 220 chs.

W. bdy. of T. 12 S. R. 12 E - Continued
chains

wide, course West

80.00 Set a malpais stone
16x12x6 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 palo verde 12 ins. diam
bears $N 35^{\circ} E$, 168 fms. dist.,
marked T. 12 S. R. 12 E.

S. 6. B. T.

A palo verde 14 ins. diam
bears $N 34 \frac{1}{2}^{\circ} W$, 253 fms.

dist., marked T. 12 S. R.
11 E. S. 1. B. T. no other

trees within limits,
dig pits 18x18x12 ins.
in secs. 7 and 12, $5 \frac{1}{2}$ ft

W. bdy of T. 12 S. R. 12 E - Continued
Chains

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

Land, level

Soil, rich loam; 1st rate

Timber, a few palv
verde along Santa Cruz River

South, bet. secs. 7 and 12

Over level land, through
scattering greasewood

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

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

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

40.00 Set a volcanic stone
14 x 14 x 6 ins., 8 ins. in the
ground for $\frac{1}{4}$ sec. cor,
marked $\frac{1}{4}$ on W. face;
from which

W. bdy of T. 12 S. R. 12 E. - Continued
chains

A palo verde 9 ins. diam.
bears $S 14^{\circ} E$, 185 lbs. dist.,
marked $\frac{1}{4}$ S. B. T.

An ironwood 10 ins. diam.
bears $S 15\frac{1}{2}^{\circ} W$, 98 lbs. dist.,
marked $\frac{1}{4}$ S. B. T.

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

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

80.00 Set a malpais stone
20 x 8 x 8 ins, 16 ins. in
the ground for cor. of
secs 7, 12, 13 and 18, marked
with 2 notches on N. and
4 notches on S. edges,
dig pits 18 x 18 x 12 ins.
in each sec. $5\frac{1}{2}$ ft. dist.,
and raise a mound
of earth 4 ft. base, 2 ft
high, W. of cor.

W. bdy of T. 12 S. R. 12 E. - Continued
Chains

Land, level
Soil, loam, 2nd rate
Timber, a few palo verde
and ironwood, under-
growth greasewood.

South, bet. secs 13 and 18
Over level land through
undergrowth

- 6.65 Trail bears N. W. and S. E.
18.50 Trail bears N. W. and S. E.
20.67 Trail bears N. W. and S. E.
40.00 Set a volcanic stone
15 x 10 x 8 ins., 10 ins. in the
ground for $\frac{1}{4}$ sec. cor.
marked $\frac{1}{4}$ on W. face;
from which
An ironwood 12 ins.
diam. bears S 45° W.

W. bdy of T. 12 S. R. 12 E - Continued
Chains

- 264 lks. dist., marked
1/4 S. B. T., no other tree
within limits; dig pits
18x18x12 in N. and S. of stone,
3 ft. dist., and raise a
mound of earth 3 1/2 ft.
base, 1 1/2 ft. high, W. of cor.
- 64.30 Road from Tucson to
Silver Bell Mines bears N84 1/2
and S84° E.
- 67.54 Road bears N88° W. and S88° E.
- 80.00 Set a volcanic stone
18x12x6 ins., 12 ins. in
the ground for cor. of
secs 13, 18, 19 and 24, with
3 notches on N. and S.
edges, from which
a palo verde 8 ins. diam
bears S58 1/4° W, 58 lks. dist.,

W. bdy of T. 12 S. R. 12 E - Continued
Chains

marked T. 12 S. R. 11 E.
S. 24. B. T., no other
trees within limits;
dig pits 18x18x12 ins.
in secs 13, 18 and 19,
5 1/2 ft. dist., and raise
a mound of earth 4 ft
base, 2 ft. high, W. of cor.
Land, level

Soil, loam, 2nd rate
Timber scattering
palm verde and ironwood,
undergrowth, greasewood

South, bet. secs 19 and 24
Over level land, through
scattering undergrowth

- 18.22 Dry wash, 15 lks. wide, course N.E.
23.53 Dry wash, 15 lks. wide, course N.W.

W. bdy of T. 12 S. R. 12 E - Continued
chains

- 39.00 Dry wash, 10 lks. wide,
course N. E
- 40.00 Set a volcanic stone
15 x 12 x 4 ins., 10 ins. in the
ground for $\frac{1}{4}$ sec. cor,
marked $\frac{1}{4}$ on W. face;
dig pits 18 x 18 x 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.
- 53.50 Dry wash, 25 lks. wide, course N. E
- 62.30 Dry wash, 25 lks. wide, course N. E
- 67.55 Dry wash, 10 lks. wide, course N. E
- 70.59 Trail bears E. and W.
- 71.76 Dry wash 20 lks. wide, course N. E
- 80.00 Set a granite stone
(metata) 18 x 12 x 4 ins., 12
ins. in the ground

W. bdy. of T₁₂ S. R. 12 E - Continued
Chains

for cor. of secs 19, 24,
25 and 30, marked
with 4 notches on N.
and 2 notches on S.
edges; from which
A palo verde 10 ins. diam.
bears S $13\frac{1}{4}^{\circ}$ E, 111 lks. dist.;
marked T. 12 S. R. 12 E.
S. 30 B. T.

A palo verde 12 ins. diam.
bears S $62\frac{1}{2}^{\circ}$ W, 154 lks
dist.; marked T. 12 S. R. 12 E.

S. 25. B. T.; no other trees
within limits; dig
pits 18 x 18 x 12 ins, in
secs 19 and 24, $5\frac{1}{2}$ ft. dist.;
and raise a mound
of earth 4 ft. base, 2 ft
high, W. of cor.

W. bdy. of T. 12 S. R. 12 E. - Continued
chains

Land, level
Soil, loam; 2nd rate
Timber, scattering
palo verde and iron-
wood; undergrowth
greasewood

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

2.00 Dry wash 10 lks. wide, course N.E.

2.87 Trail bears E. and W.

16.80 Dry wash, 25 lks wide, course N.E.

28.65 Dry wash, 10 lks. wide, course N.E.

34.40 Dry wash, 20 lks. wide, course N.E.

40.00 Set a volcanic stone
16x12x9 ins., 12 ins. in
the ground for $\frac{1}{4}$ sec.
cor. marked $\frac{1}{4}$ on W. face,

W. hdy of T. 12 S. R. 12 E - Continued
Chains

and raise a mound
of stone 2 ft. base, $1\frac{1}{2}$
ft. high W. of cor. Pits
impracticable

40.43 Road from Marsh's
ranch to Ruiz^{2nd} Aguirre ranch
bears N.E. and S.W.

50.87 Dry wash, 25 lks. wide, course N.E.

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

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

70.00 Ascend Tucson Mts

80.00 Falls on a volcanic
boulder $24 \times 14 \times 6$ ins.
above ground; I cut
a cross (x) at the exact
cor. point for cor. of
secs. 25, 30, 31 and 36, mark
5 notches on N. and 1
notch on S. sides;

W. ldy of T. 12 S. R. 12 E - Continued
Chains

from which

A palo verde 10 ins. diam.
bears $N 29\frac{1}{2}^{\circ} E$, 108 lks. dist.,
marked T. 12 S. R. 12 E.
S. 30. B. T.

A palo verde 4 ins. diam.
bears $S 28^{\circ} E$, 60 lks. dist.,
marked T. 12 S. R. 12 E.
S. 31. B. T.

A palo verde 6 ins. diam.
bears $S 50\frac{1}{2}^{\circ} W$, 72 lks. dist.,
marked T. 12 S. R. 11 E.
S. 36. B. T.

A palo verde 4 ins. diam.
bears $N 43\frac{1}{4}^{\circ} W$, 106 lks. dist.,
marked T. 12 S. R. 11 E.
S. 25. B. T.

Land, level and mountainous
Soil, loam and stony;

W. bdy of T. 12 S. R. 12 E - Concluded.

2nd and 4th rate
Timber, scattering
palo verde, undergrowth
greasewood.

Some giant cactus.
Mountainous land, 10chs.

Note: I discontinue the
W. bdy. of T. 12 S. R. 12 E.
at cor. of secs 25, 30, 31^{2/3} & 36,
as the remainder runs
over mountainous land
over which it is im-
practicable to chain
July 1. 1895.

Boundaries of T. 12 S. R. 12 E.
 Latitudes, departures and closing errors.

Line designated	True bearing	Distance	Latitudes		Departures	
			N.	S.	E.	W.
S. bdy. T. 12 S. R. 12 E.	West	320.00	-	-	-	320.00
N. bdy. Sec. 33	N 0° 2' W	80.00	80.00	-	-	0.05
N. bdy. Sec. 28	N 0° 2' W	80.00	80.00	-	-	0.05
S. bdy. Sec. 20	West	80.00	-	-	-	80.00
S. bdy. Sec. 19	N 89° 59' W	78.38	-	-	-	78.38
N. bdy. T. 12 S. R. 12 E.	North	320.00	320.00	-	-	-
N. bdy. T. 12 S. R. 12 E.	East	478.16	-	-	478.16	-
Santa Cruz Guide Mer.	South	480.00	-	-	480.00	-
Convergency	-	-	480.00	-	46	-
Total	-	-	480.00	480.00	478.62	478.78
Error in last	-	-	-	-	0.2	Error in dep. 1.7