

In November 2005,
when the files were moved into the new filing system the

X FIELD NOTES

were found missing.

They are filmed on the microfiche for the township.

The attached

is a print

from the microfiche

VOLUME

R 7 4 6

BOOK 746

No. 746

746

4-671

FIELD NOTES

GENERAL LAND OFFICE

Resurvey of
 2nd Standard Par. S.
 through portion of
 Range 10 E. ^{1/2} Range 11 E.
 AND
 Subdivision
 of
 T. 11 S. R. 11 E.

Field-Notes
 of the resurvey of the
 Second Standard Parallel ^{with}
 through portion of Range 10,
 and Range 11 East.

Survey of the
 Subdivision

— of —

T. 11 S. R. 11. E.

Gila and Salt River, Base ^{of} Meridian

— in the —

Territory of Arizona
 as surveyed by
 Philip Contzen
 U. S. Deputy Surveyor
 Under his contract No 36
 Dated February 5. 1895
 Survey commenced, July 29. 1895
 Survey completed, Aug. 10. 1895

see book 1526 for copy.

BOOK 746
 BOOK 747
 BOOK 748

2

(4-674.)

Township 11 South R. 11 East

36 6	31 9	32 13	33 17	34 21	35 25	36 30				
6	180	5	142	4	116	3	90	2	64	1
176		175		140		114		88		61
7	171	8	137	9	111	10	85	11	58	12
169		167		135		108		82		56
18	165	17	132	16	105	15	79	14	52	13
162		161		130		103		76		50
19	158	20	127	21	100	22	75	23	46	24
156		154		125		98		73		44
30	152	29	123	28	97	27	70	26	42	25
149		147		122		95		69		40
31	144	32	118	33	93	34	67	35	38	36

see book 1526 to 1544

6-389

Resurvey of the 2nd Standard Parallel
 Chain

South
 Chain

Finding that most of the standard $\frac{1}{4}$ sec. corners of the Second Standard Parallel South are obliterated and gone, I find it necessary for the proper prosecution of the survey of T. 11 S.

R. 11 E, to resurvey that portion of the Second Standard Parallel South, forming the N. bdy of T. 11 S. R. 11 E.

July 29. 1895: At 9^h 30^m a. m., l. m. t., I set off $32^{\circ}30'$ on the lat. arc; $18^{\circ}43'$ N. on the decl. arc; and determine a true meridian with the solar, at standard

No. 746

Parallel
 South, through Range 10 East
 chains

at
 sec.
 and
 south
 one,
 4 for
 two
 S.
 that
 and
 south,
 of
 1 m
 lf
 8043
 d.
 dian.
 standard

cor. of sees. 35 and 36 of
 T. 10 S. R. 10 E, which is
 a pine post 4 ft. above
 ground, 4 ins. sq. firmly
 set, and marked
 Pinal, S. C. T. 10 S. R. 10 E. on N.
 S. 36 on E;

Pinal, on S, and
 S. 35 on W. faces; with
 1 groove on E. and 5 grooves
 on W. faces, without pits
 and mound.

I dig pits 24 x 18 x 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.
 Thence I run

Resurvey of the 2nd Standard Parallel South
Chains

East, on S. bdy. of sec. 36
Over level land, through
scattering undergrowth
5.70 Trail, bears N. W. and S. E.
28.10 Trail, bears N. W. and S. E.
29.40 Trail, bears N. W. and S. E.
36.47 Closing cor. of Tps. 11 S.
Rs. 10 and 11 E., as heretofore
described.

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

Difference between measure-
ments of 40.20 chs, by two
sets of chainmen is 6 lks,
position of middle point
By 1st set, 40.17 chs.

By 2nd set, 40.23 chs, the mean
of which is

40.20 Standard $\frac{1}{4}$ sec. cor, which
is a decayed post, lying

South

through Range 10 East, Continued
Chains

36

ough

oth

1.E.

1.E.

1.E.

1.S.

etofore

course

measure

of two

6 lks,

mean

or, which

lying

on the ground, I destroy
the old post and re-
establish the cor. at the
same point, as follows.

Set a volcanic stone
18 x 12 x 6 ins, 12 ins. in the
ground, for standard
1/4 sec. cor., marked S.C.

1/4 on N. face; dig pits,
18 x 18 x 12 ins, E. and W.
of stone, 3 ft. dist; and
raise a mound of earth,
3 1/2 ft. base, 1 1/2 ft. high,
N. of cor.

44.70 Dry wash, 8 lks. wide, course S.

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

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

75.59 Telegraph line bears N 35° 20' W

and S 35° 20' E

75.95 Line first single track of the Southern
76.44 middle of single track of the Southern
Pacific Railroad bears N 35° 20' W & S 35° 20' E

Resurvey of the 2nd Standard Parallel South
Chains

thru
Chains

77.39 Telegraph line, bears $N 35^{\circ} 20' W$ ^{2nd} $S 35^{\circ} 20' E$

Difference between measure-
ments of 80.24 chs. by two
sets of chainmen, is

4 lbs.
position of middle point

By 1st set, 80.20 chs.

By 2nd set, 80.28 chs, the
mean of which is

80.24 Standard cor. of Tps.

10 S. R. 10 and 11 E. which
is a pine post 4 ft.

above ground, 4 ins. sq.
firmly set and marked
Pinal, S.C., T. 10 S. on N.

R. 11 E. S. 31 on E,

Pinal, on S, and

R. 10 E. S. 36 on W. faces;
with 6 grooves on N, E.
and W. faces, without

Bel South

through Range 10 East - Concluded
Chains

135°20'E

measure
by two
is

the

rs.

which

ft.

sq.

upked

N.

faces;

N, E.

thout

pits and mound

I dig pits 30 x 24 x 12 ins.
crosswise on each line,
E and W, 4 ft, and N.
of post, 8 ft. dist; and
raise a mound of earth,
5 ft. base, 2½ ft. high, N.
of cor.

Land, level

Soil, loam; 2nd rate

No timber; undergrowth
greasewood

East, on S. bdy. sec. 31

Over level land, through
scattering undergrowth

30 Road from Tucson to
Picoacho and other points
bears N. W. and S. E.

Resurvey of the 2nd Standard Parallel
Chains

South
Chains

26.20 Dry wash, 10 lks. wide, course S

Difference between measure-
ments of 40.16 chs. is 4 lks.
position of midpoint
By 1st set, 40.18 chs

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

40.16 The old standard 1/4 sec.

54.90

cor. which was a post

63.20

has disappeared but

63.85

remains a mound visible,

4 lks N. of same, I reestablish

— the cor. at the orig.

place, as follows.

Set a volcanic stone 14x10x8

ins. 5 ins. in the ground,

80.2

for standard 1/4 sec. cor.

marked S.C. on N.

face; from which

all

South, through Range 11 East - Continued

Chains

S.

A palo verde 10 ins. diam.

asure

bears $N 82 \frac{1}{2}^{\circ} E$, 180 lbs. dist.

+ lbs.

marked S.C. 1/4 S.B.T.

mean

A palo verde 7 ins. diam.

bears $N 32 \frac{3}{4}^{\circ} W$, 45 lbs. dist.

marked S.C. 1/4 S.B.T.

see

54.90 Dry wash, 15 lbs. wide, course S.

st

63.20 Dry wash, 15 lbs. wide, course S.

ct

63.85 Dry wash, 20 lbs. wide, course S.

visible,

Difference between measure

establis

ments of 80.27 chs is 7 lbs.

ig.

position of middle point

By 1st set, 80.23 1/2 chs.By 2nd set, 80.30 1/2 chs, the

e 14x10x8

mean of which is

ind,

80.27 The standard cor. of sec.

cor,

31 and 32, which is a

N.

pine post, 4 ft. above

ground, 4 ins. sq. firmly

set, and marked

Resurvey of the 2nd Standard Parallel
 chains

South
 Chain

Point S. C. 5.10 S. R. 11 E. on N.
 S. 32 on E.

Point on S. and
 S. 3. on N. faces with 5
 grooves on E. and 14 grooves
 on N. faces, without pits
 and mound, near 18 ft. N.
 from which

An ironwood 10 ins. diam.
 bears N 50° E, 120 yds. dist.
 marked S. 10 S. R. 11 E. S. 32

B. T. no other tree within
 limits, dig pits 24 x 18 x 12
 ins. crosswise on each line
 E. and N. 3 ft. and N. S.
 post, 7 ft. dist, and raise
 a mound of earth 4 ft.
 base, 2 ft. high, N. of cor
 The true course of this line.

1.60

13.2

30.5

Resurvey of the 2nd Standard Parallel South
Chains

3rd 1st set 40.27 chs.
 3rd 2nd set, 40.33 chs, the
 mean of which is 44.3
 40.30 The old standard 4 sec. 54.0
 cor. which was a post 60.0
 has disappeared but 07.0
 remains of cor. point 70.0
 visible, 6 lbs. S. of line 72.1
 & re establish cor. at the 74.2
 original point as follows:
 Set a volcanic stone 16x8x7
 ins. 12 ins. in the ground,
 for standard 4 sec. cor.,
 marked S.C. 4 on N. face;
 from which
 a 1/2 iron wood 10 ins. diam,
 near N 114° W 75 lbs. dist, 80.
 marked S.C. 4 S.B.T.
 A Palo Verde 5 ins diam,

Parallel South, through Range 11 East, Continued
 Chains

bears $11^{\circ} 23' 3'' + E$, 264 $\frac{1}{2}$ lks. dist;
 marked S. C. 1/4 S. B. T.

44.30 Dry wash, 12 lks. wide, course S.W.

54.36 Dry wash, 8 lks. wide, course S.W.

60.80 Dry wash, 9 lks. wide, course S.W.

67.60 Dry wash, 9 lks. wide, course S.W.

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

72.10 Trail, bears N. and S.

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

Difference between
 measurements of 80.59 chs
 by two sets of chainmen,
 is 8 lks, position of middle point

By 1st set, 80.55

By 2nd set, 80.63 chs, the
 mean of which is

80.59 The standard cor. of sees
 32 and 33, which is a
 pine post, 4 ft. above

te

1/4 sec.

post

but

is not

at line,

at the
 follows:

is 16x8x7

round,

see cor.,

N. face,

is diam,

dist;

S. B. T.

is diam,

Resurvey of the 2nd Standard Parallel South
Chains Chain

ground, 4 ins. sq., firmly
set and marked

Pinal, S.C., T. 10 S. R. 11 East,
S. 33 on E

Pinal on E. and

S. 32 on W. faces, with
4 grooves on E. and 2
grooves on W. faces,
bears 14 lks. S. of line,
from which

An ironwood 10 ins. diam.
bears N 63° E 35 lks. dist,
which I mark, T. 10 S.
R. 11 E. S. 33 B. T.

A mesquite 8 ins. diam.
bears N 44° 4' W, 190 lks.
dist. which I mark

T. 10 S. R. 11 E. S. 32. B. T.

The true course of this line is

1.0

3.10

8.5

16.3

17.5

24.5

Parallel South, through Range 11 East - Continued

Chains "S 89° 54' E"

Lirny

Land, level

1. South,

Soil, loam; 3rd rate

Timber, scattering palo verde, ironwood and mesquite; undergrowth

with

greasewood

1.2

res,

me;

From standard cor. of
secs. 32 and 33.

East on s. bdy. sec. 33

Over level land, through
scattering timber

diam.

list;

1. S.

1.00 Dry wash, 40 lks. wide, course S.S.W.

1.00

3.10 Dry wash, 12 lks. wide, course S.

lks.

8.50 Dry wash, 20 lks. wide, course S.

16.30

16.30 Old road, bears N. E. and S. W.

B. T.

17.55 Dry wash, 20 lks. wide, course S.

is line is.

24.35 Dry wash, 12 lks. wide, course S.

Resurvey of the 2nd Standard Parallel South
Chains

- 31.60 Dry wash, 10 fks. wide, course S.
32.15 Dry wash, 10 fks wide course S.
37.80 Dry wash, 7 fks. wide, course S. S.W.
39.80 Road, bears N.E. and S.W.

Difference between measurements of 40.26 chs. by two sets of chainmen is 7 fks. position of middle point.

By 1st set, 40.22 $\frac{1}{2}$ chs.

By 2nd set, 40.29 $\frac{1}{2}$ chs. the mean of which is

40.26 The old standard $\frac{1}{4}$ sec.

cor., which is a decayed post, lying on the ground, I destroy the old post, and reestablish the cor. at the same point, as follows:

Set a volcanic stone 15 x 10 x 6 ins. 10 ins. in the ground, for standard

50.5

60.0

61.7

63.1

Parallel South, through Range 11 East, Continued
Chains

1/4 sec.
1/4 sec.
1/4 sec.
1/4 sec.
measure-
two
7 fks.
the
2 sec.
aged
ground,
stand
at the
p.o.s.
ne
in the
card

1/4 sec. cor., marked S.C.
1/4, on N. face; from which
A palo verde, 10 ins. diam.,
bears N 55° E, 135 fks. dist.;
marked S.C. 1/4 S.B.T.
A palo verde, 18 ins. diam.,
bears N 32° W, 104 fks. dist.;
marked S.C. 1/4 S.B.T.
50.23 Dry wash, 20 fks. wide, course S.
60.00 Trail, bears N. and S.
61.70 Trail, bears N. and S.
63.17 Trail, bears N.E. and S.W.
Difference, between
measurements of 80.60 chs.
between two sets of chain-
men is 6 fks.
position of middle point
By 1st, 80.57 chs.,
By 2nd, 80.63 chs., the mean
of which is

Resurvey of the 2nd Standard Parallel South,
Chains Chains

80.60 The standard cor. of sees
33 and 34, which is a pine
post, 4 ft. above ground,
4 ins. sq., firmly set, and
marked

Pinal, S.C., T. 10 S. R. 11 E. on N.
S. 3-4 on E.

Pinal on S, and

S. 33 on W. faces, with
3 grooves on E. and W. faces,
from which

A palo verde, 6 ins. diam.
bears N 12 1/4° E, 111 lbs. dist.,
marked T. 10 S. R. 11 E. S.

2.00

34 B. T.

3.80

A mesquite, 6 ins. diam.,

9.35

bears N 40 1/2° W., 90 lbs. dist.,

29.25

marked T. 10 S. R. 11 E. S.

35.80

33 B. T.

allel South, through Range 11 East - Continued
 Chains

secs Land, level
 pine Soil, loam; 3rd rate
 and, Timber, scattering palo
 et, and verde, ironwood and
 E. on N. mesquite; undergrowth
 greasewood

with From standard cor. of
 W. faces, secs. 33 and 34

East on S. bdy. sec 34
 Over gently rolling land
 through scattering timber
 and undergrowth

1/4 E. S. 2.00 Dry wash, 10 lks. wide, course S.S.W.

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

1/4 E. S. 9.35 Dry wash, 6 lks. wide, course S.W.

1/4 E. S. 29.22 Dry wash, 6 lks. wide, course S.W.

35.85 Dry wash, 30 lks. wide, course S.W.

Difference between measure

Resurvey of the 2nd Standard Parallel South
 Chains Chain

ments of 40.31 chs, by two
 sets of chainmen is 4 lks.
 position of $\frac{1}{4}$ sec. cor. point

By 1st set 40.29 chs.

By 2nd set 40.33 chs, the
 mean of which is

40.31 The old standard $\frac{1}{4}$ sec. 47.

cor, which was a post 49.

has disappeared, but 50.

remains of cor. point 57.

visible, 13 lks. S. of line. 60.

I reestablish the cor. at 61.

the orig. place, as follows: 69.

Set a granite stone 73.

18 x 6 x 6 ins. 12 ins. in the 75.

ground, for standard 76.

$\frac{1}{4}$ sec. cor., marked

which

A palv verde, 12 ins. diam.

Parallel South, through Range 11 East - Continued
Chains

two
is 4 lks.
int
the
1/4 sec
post
but
point
of line,
or. at
follows:
one
in the
ward
ked
; from
no. diam.

bears $N10^{\circ}E$, 86 lks. dist.;
marked S.C. 1/4 S.B.T.
A palo verde, 10 ins. diam.
bears $N46^{\circ}W$, 72 lks. dist.;
marked S.C. 1/4 S.B.T.
47.65 Dry wash, 15 lks. wide, course
S.
49.80 Trail, bears N. and S.
50.52 Dry wash, 6 lks. wide, course NW .
57.60 Trail, bears $N.E.$ and $S.W.$
60.50 Dry wash, 7 lks. wide, course SW .
61.15 Old road, bears N. and S.
69.30 Trail, bears N. and S.
73.45 Dry wash 25 lks. wide, course NW .
75.50 Dry wash, 10 lks. wide, course SW .
76.94 Dry wash, 10 lks. wide, course SW .
Difference between
measurements of
80.61 chs. by two sets of

Resurvey of the 2nd Standard Parallel. South
 Chains chains

chambers is 4 W.
 position of 2nd hole point
 By 1st set 80.65½ chs.

By 2nd set 80.56½ chs., the
 mean of which is

80.61 The standard cor. of sec.

34 and 35, which is a
 pine post, 4 ft. above
 ground, 4 ins. sq., firmly
 set, and marked

Final S. 10 S. R. 11 E. on N.

S. 35. on E.

Pinna, on S. and

S. 34 on W. faces, with
 2 grooves on E. and 4

grooves on W. faces
 bears 25 lbs. S. of line,
 from which

A mesquite, 8 ins. diam

bears N 27½° E, 114 lbs.

parallel. South through Range 11 East - Continued
 chains

dist, which I mark

T. 10 S. R. 11 E. S. 35. B. T.

A mesquite 12 ins. diam
 bears $N 35\frac{1}{2}^{\circ} W$, 104 lks. dist;

which I mark T. 10 S.

R. 11 E. S. 34 B. T.

The true course of this
 line is: "S $89^{\circ} 49' E$ "

Land, gently rolling.

Soil, loam; 3rd rate

Timber, scattering palo

verde, ironwood and

mesquite; undergrowth

greasewood.

From standard cor. of

secs. 34 and 35, I run

East, on S. bdy. sec 35.

Over rolling land

Resurvey of the 2nd Standard Parallel (S. 24. 12. 1856)

Chains

through scattering timber
and undergrowth

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

10.12 Line post

Difference between measure-
ments of 40.24 chs. by two
sets of cyclopes is 6 lbs;
position of middle point
By 1st set, 40.32 chs.

By 2nd set, 40.26 chs. the mean
of which is

40.29 The old standard $\frac{1}{4}$ sec.

cor, which was a post
has disappeared, but
slight remains of mound
visible, 20 lbs. S. of line,

I reestablish the cor. at
the orig. point, as follows

Set a sand stone 16x10x6
ins, 12 ins. in the ground,

45.

47.

49.

53.

60.

62.

64.

Parallel South, through Range 11 East - Continued

Timber ^{chains} for standard $\frac{1}{4}$ sec. cor,
 marked S. C. $\frac{1}{4}$ on N. face,
 from which
 A mesquite 10 ins. diam.
 bears $N 82^{\circ} E$, 28 lbs. dist,
 marked S. C. $\frac{1}{4}$ S. B. T.
 no other tree within
 limits, dig pits $18 \times 18 \times 12$ 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.
 45.00 Descend into valley
 47.00 Enter valley, course S.
 49.08 Dry wash, 8 lbs. wide, course S.
 53.00 Dry wash, 190 lbs. wide, course S.
 60.54 Old road bears N. and S.
 62.80 Leave valley, and ascend
 64.50 Top of mesa bears N. and S.

Resurvey of the 2nd Standard Parallel
Chains

64.70 Descend into gulch

65.70 Bottom of gulch

67.15 Dry wash, 5 lks. wide, course 1.

67.80 Ascend from gulch

69.00 Top of bank

70.50 Descend into gulch

71.40 Bottom of gulch

71.55 Dry wash, 4 lks. wide, course 1.

75.40 Dry wash 10 lks. wide, course 1.

76.70 Ascend

78.00 Top of bank

Difference between measurements of 80.70 chs. by two

sets of chainmen 12 lks.
position of middle point

By 1st set, 80.64 chs.

By 2nd set, 80.76 chs, the
mean of which is

80.70 The standard cor. of
secs 35 and 36, which is

Parallel South, through Range 11 East - Continued

a pine post, 4 ft. above ground, 4 ins. sq. firmly set, and marked
 Pinal, S.C., T. 10 S. R. 11 E. on N.,
 S. 36. on E.

Pinal on S, and
 S. 35. on W. faces, with
 1 groove on E. and 5
 grooves on W. faces,
 bears 51 lks. S. of line;
 from which

A palo verde, 12 ins. diam.
 bears N 46 1/2° E, 88 lks. dist,
 which I mark T. 10 S. R. 11 E. S.
 36. B. T

A palo verde, 14 ins. diam.
 bears N 52 1/2° W, 76 lks. dist,
 which I mark, T. 10 S. R.
 11 E. S. 35 B. T

The true course of this line is: "89° 38' E"

see S.

h

course S.

course S.

measure-

by two

lks.

...

...

the

o

e. of

which is

Resurvey of the 2nd Standard Parallel: Sour
Chain
Chains

Land, rolling
Soil, gravelly loam; 3rd rate
Timber, palo verde, iron-
wood and mesquite,
undergrowth greasewood

From standard cor. of 40.3
secs. 35 and 36. From

East on S. bdy. sec. 36
Over level and rolling
land, through scattering
timber, and undergrowth

3.00 Dry wash, 15 lks wide, course S.

5.00 Dry wash, 35 lks. wide, course S.

8.40 Dry wash, 20 lks. wide, course S.

8.50 Ascend mesa

10.00 Top of mesa

19.60 Dry wash, 7 lks. wide, course S.

28.00 Dry wash, 20 lks. wide, course S.

Parallel: South, through Range 11 East, Continued
 Chains

Difference between measurements of 40.30 chs., by two sets of chains ^{is 9 lbs,}
 position of ^{marked} point

By 1st set, 40.25½ chs.

By 2nd set, 40.34½ chs., the mean of which is

40.30 The old standard ¼ sec. cor., which was

a post has disappeared, but slight remains of mound visible, 6 lbs N. of line; I reestablish the cor. at the original point, as follows:

Set a granite stone 18 x 12 x 6 ins, 12 ins. in the ground, for standard ¼ sec. cor., marked S. C. ¼, on N. face; dig

rate
 iron-
 ste,
 wood

v. of

36

ing
 tering

growth

course 1.

course 1.

course 1.

course 1.

course 1.

Resurvey of the 2nd Standard Parallel South
Chains Chains

pits, 18 x 18 x 12 ins, E. and W.
of stone, 3 ft. dist. and
raise a mound of earth,
3 1/2 ft. base, 1 1/2 ft. high,
N. of cor.

8005

54.00 Dry wash, 6 lbs. wide, course S.

56.40 Dry wash, 10 lbs. wide, course S.W.

55.76 Dry wash 12 lbs. wide, course S.

68.50 Descend into valley

69.00 Enter valley, course S.

69.20 Dry wash, 15 lbs. wide, course S.

71.45 Dry wash, 15 lbs. wide, course S.

74.30 Old road, bears N.E. and S.W.

76.60 Dry wash, 80 lbs. wide, course S.

Difference between
measurements of 80.05 chs.,
by two sets of chainmen,
is 6 lbs. position of middle point.

By 1st set, 80.02 chs.,

and Parallel South, through Range 11 East - Concluded

Chains

and W
nd
earth,
igh,
course S.
course S.W.
course S.
by
ce S.
de, course S.
course S.
and S.W.
course S.
n
80.05 chs,
men
middle point

By 2nd set, 80.08 chs, the mean
of which is
80.05 The standard cor. of
Tps. 10 S, R. 11 and 12 E,
as heretofore described.
bears 14 lks. N.

The true "course of this
line is: N 89° 54' E"
Land, level and rolling.
Soil, gravelly loam; 3rd rate
Timber, scattering, palo
verde, ironwood and
mesquite; undergrowth
greasewood.

July 29. 1895

Subdivision of T. 1
chains chains chains

July 30. 1895 I examine the adjustments of the transit, and I find the same correct; then to test the solar apparatus, by comparing its indications, resulting from solar observations made during a. m. and p. m. hours, with a true meridian determined by observations on Polaris, I proceed as follows:

At $3^{\text{h}}30^{\text{m}}$ p. m. local mean time, I set off $32^{\circ}25'$ on the lat. arc, $18^{\circ}25'N.$ on the declination arc, and mark the true meridian thus determined with the

T. H. S. R. H. E.

chains

of
mine
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and the
to
paratus,
indica-
from
is made
p. m.

meridian
rations
ed as

p. m.
set off
18° 25' N.,
are,
meridian
with the

solar, by a cross on a
stone firmly set in the
ground, 5 chs. N. of the
instrument, at cor. of
secs 1, 2, 35 and 36 or S.
bdy. of Tps., as heretofore
described.

July 30. 1895.

July 30. 1895 At 10^h 48^m a. m.
local mean time I observe
Polaris at eastern elonga-
tion, 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.

Subdivision of *J. Cha*
 Chains

July 31. at 6. a. m. I lay off the azimuth of Polaris, $1^{\circ}29'$, to the west and mark the true meridian thus determined, by cutting a small groove in the stone set July 30. on which the true meridian falls 0.15 ins. west of the mark, determined by the solar.

At $9^{\text{h}}30^{\text{m}}$ a. m., l. m. t., I set off $32^{\circ}25'$ on the lat. arc, $18^{\circ}14'N.$ 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

T. 11 S. R. 11 E. - Continued

Chains

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. observations, defines positions for true meridian, about 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. is $N 12^{\circ} 59' W$, the angle thus determined, reduced by the table, page

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west
determined,
above
by 30.
meridian
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by
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R
de-
solar,
stone
of

Subdivision of T. 11
Chains

Chains

100 gives the mean mag.
Decl. $12^{\circ} 57'$ East.

Thence I run

$N 0^{\circ} 1' W$, bet secs. 35 and 36

Over level land through
scattering greasewood

8.90 Irrigating ditch, 10 fks. wide
course West

14.60 Trail, bears E. and W.

21.80 Trail, bears E. and W.

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

40.00 Set a quartz stone $17 \times 8 \times 6$
ins., 11 ins. in the ground
for $\frac{1}{4}$ sec. cor., marked
 $\frac{1}{4}$ on W. face; from which
A mesquite, 4 ins. diam.
bears $S 64\frac{1}{2}^{\circ} E$, 240 fks.
dist; marked $\frac{1}{4}$ S.B.S.

60.89

80.00

of
 mag.
 and 36
 rough
 road
 s. wide
 W.
 15.
 17x8x6
 round
 rked
 in which
 diam.
 lbs.
 S.B.T.

T. 11 S. R. 11 E. - Continued
 chains

no other tree within
 limits; dig pits 18x18x12 ins.
 N. and S. of stone 3 ft. dist;
 and raise a mound of
 earth 3½ ft. base, 1½ ft.
 high, W. of cor.

60.89 Trail, bears N.W. and S.E.
 80.00 Set a quartz stone 18x8x6
 ins., 12 ins. in the ground
 for cor. of secs. 25, 26, 35 and
 36, marked with 1 notch
 on S. and E. edges; from
 which

A mesquite 4 ins. diam.
 bears S 18° W., 189 lbs. dist;
 marked T. 11 S. R. 11 E.

S. 35 B.T., no other trees
 within limits; dig pits
 18x18x12 ins. in each sec.

Subdivision of T. 1

Chains

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

Land, level

Soil, loam, 1st rate

Timber, scattering mesquite
undergrowth, greasewood.

East, on a random line
bet. secs. 25 and 36

40.00 Set temp. ¼ sec. cor.

80.20 Intersect E. bdy of Tps.
5 lks. S. of cor. of secs

26, 30, 31 and 36

Thence, I run

S 89° 58' W, on a true line
bet. secs. 25 and 36

Over level land through
scattering undergrowth

Chains

3.5

14.0

40.0

44.0

57.0

77.0

78.0

of T. 11 S. R. 11 E. - Continued

	Chains	
ise	3.55	Trail, bears N.E. and S.W.
4 ft.	14.60	Road to Owl's Head
1 cor.		bears N.W. and S.E.
te	40.10	Set a mesquite post,
mesquite		3 ft. long, 3 ins. sq. with
cedwood.		marked stone, 24 ins.
		in the ground for $\frac{1}{4}$
		sec. cor., marked $\frac{1}{4}$ S.
line		on N. face, dig pits 18x18x12
		ins. E. and W. of post,
ro.		3 ft. dist. and raise a
Sp.		mound of earth, $3\frac{1}{2}$ ft
ees		base, $1\frac{1}{2}$ ft. high, N. of cor.
	44.20	Road, bears N. and S.
	57.95	Road, bears N.W. and S.E.
ue line	77.60	Telegraph line, bears N $49\frac{1}{2}^{\circ}$ W
		and S $49\frac{1}{2}^{\circ}$ E
through	78.67	Middle of single track
rowth		of the Southern Pacific

Chains	Subdivisions of	T. Chains
	Railroad bears $N49\frac{1}{2}^{\circ}W$ and $S49\frac{1}{2}^{\circ}E$.	1.30
79.40	Road from Tucson to Picacho bears N.W. and S.E.	
79.70	Telegraphline, bears $N49\frac{1}{2}^{\circ}W$ and $S49\frac{1}{2}^{\circ}E$.	2.30
80.20	The cor. of sees, 25, 26, ²⁷ 35 & 36 Land, level Soil, loam, 1 st rate No timber, undergrowth greasewood	22.6 24. 25.
	<hr/> No $1^{\circ}W$, bet. sees. 25 and 26	40.
	Over level land, through scattering undergrowth	
40	Telegraphline, bears $N49\frac{1}{2}^{\circ}W$ and $S49\frac{1}{2}^{\circ}E$	
70	Road from Tucson to Picacho and other points	

L T. 11 S. R. 11 E. - Continued

Chains

$9\frac{1}{2}^{\circ}$ W.

to

N. S. E.

$N49\frac{1}{2}^{\circ}$ W.

6, 35²/₄ 36

through

5 and 26

through

through

$N49\frac{1}{2}^{\circ}$ W.

to

points

bears $N49\frac{1}{2}^{\circ}$ W. and $S49\frac{1}{2}^{\circ}$ E

1.30 Middle of single track
of the Southern Pacific
Railroad, bears $N49\frac{1}{2}^{\circ}$ W.
and $S49\frac{1}{2}^{\circ}$ E.

2.30 Telegraphline, bears $N49\frac{1}{2}^{\circ}$ W.
and $S49\frac{1}{2}^{\circ}$ E.

22.60 Road from Tucson to Cicacho
and other points bears N. W.
and S. E.

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

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

40.00 Set a quartz stone $15 \times 6 \times 4$ ins.
10 ins. in the ground for
 $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$
on N. 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.

Chains	Subdivision of	T. Chains
	high, W. of cor.	40.00
80.00	Set a malpais stone 18x12x6 ins., 12 ins. in the ground for cor. of sees. 23, 24, 25 and 26, marked with 2 notches on S. and 1 notch on E. edges; dig pits 18x18x12 ins. in see., 5½ ft. dist. and raise a mound of earth 4 ft. base, 2 ft. high, W. of cor.	80.30
	Land, level	6.
	Soil, loam; 1 st rate	29.0
	No timber; undergrowth greasewood	22.0
		24.
		33.
		49.0

N 89° 58' E, on a random
line, bet. sees. 24 and 25

T. 11 S. R. 11 E. - Continued

Chains

40.00 Set temp. $\frac{1}{4}$ sec. cor.80.30 Intersect E. bdy of Tps. at
cor. of secs. 19, 24, 25 and 30

Thence I run

S $89^{\circ} 58' W$, on a true line
bet. secs. 24 and 25Over rolling land, through
scattering timber and under
growth.

6.00 Dry wash, 10 fks. wide, course S.W.

20.00 Descend from mesa

22.00 Bottom and wash, 20 fks wide,
course S.W.

24.30 Dry wash, 10 fks. wide, course S.S.W.

33.50 Dry wash, 10 fks. wide, course S.S.W.

40.15 Set a quartz stone $16 \times 10 \times 8$
ins., 12 ins. in the ground,
for $\frac{1}{4}$ sec. cor., marked
 $\frac{1}{4}$ on N. face, from which

Subdivisions of

Chains

T. 1
Chains

- A palo verde, 6 ins. diam.
bears N $26\frac{1}{2}^{\circ}$ W. 146 lks. dist.
marked $\frac{1}{4}$ S. B. T.
- A palo verde, 10 ins. diam.
bears S $33\frac{1}{2}^{\circ}$ E, 133 lks. 20.4
dist, marked $\frac{1}{4}$ S. B. T. 37.0
- 41.70 Trail, bears N. and S.
- 42.85 Dry wash, 15 lks. wide, course S. 40.0
- 57.50 Brush enclosure bears
2 chs. S.
- 71.95 Road to Owl's Head
bears N. W. and S. E.
- 80.30 The cor. of secs. 23, 24, 25⁹ & 26
Land rolling
Soil, gravelly loam; 2nd
and 3rd rate
Timber, scattering
palo verde; undergrowth
greasewood. 44.

T. 11 S. R. 11 E. - Continued

Chains

- diam. No 1" W. bet. sees. 23 and 24
 lbs. dist. Over gently rolling land
 T. through scattering timber
 diam. and undergrowth
 lbs. 20.45 Trail bears N. W.
 1. B. T. 37.00 Road to Owls Head, bears
 S. N. N. W. and S. S. E
 course S. 40.00 Set a gravel stone 18x6x4
 bears ins., 12 ins. in the ground
 road for 1/4 sec. cor. marked
 S. 1/4 on W. face, from which
 4, 25^{3/4} 26 A mesquite 8 ins. diam. bears
 N 8 1/2° E, 199 lbs. dist., marked
 W, 2nd 1/4 S. B. T.
 A mesquite 6 ins. diam.
 bears N 28° W, 281 lbs. dist.,
 marked 1/4 S. B. T.
 ng 44.30 Road to Owls Head, bears
 2 growth N. N. E. and S. S. W

Subdivision of

Chains

- 52.50 Trail, bears N.E. and S.W.
- 54.00 Dry wash, 20. lks. wide, course S.W.
- 55.00 Dry wash, 20 lks. wide, course S.W.
- 58.50 Ascend spur of mesa
- 59.60 Top. of spur and descend
- 60.90 Foot of spur, bears N.E.^{2/3} S.W.
- 65.50 Trail, bears N.E. and S.W.
- 67.50 Ascend spur of mesa
- 69.50 Top. of spur, bears N.E. and S.W.
- 70.80 Descend from spur
- 72.00 Foot of spur, and dry
wash, 10 lks. wide, course S.W.
- 72.60 Ascend spur of mesa
- 75.50 Top of spur, bears N.E.^{2/3} S.W.
- 76.70 Descend from spur
- 77.60 Foot of spur
- 78.30 Dry wash, 7 lks. wide, course S.W.
- 78.40 Ascend spur
- 79.50 Top of spur, bears N.E.^{2/3} S.W.

T. 11 S. R. 11 E. - Continued

Chains

and descend

1. W. 80.00 Set a granite stone, 18 x 10 x 8
 ins., 12 ins. in the ground
 for cor. of secs. 13, 14, 23 and 24,
 marked with 3 notches
 on S. and 1 notch on E.
 edges; from which
 A palo verde, 11 ins. diam.
 bears $N 52\frac{1}{2}^{\circ} E$, 28 lks.
 dist. marked T. 11 S.
 R. 11 E. S. 13. B. T.
2. W. A palo verde, 6 ins. diam.
 bears $S 22\frac{1}{2}^{\circ} E$, 39 lks. dist.;
 marked T. 11 S. R. 11 E. S. 24.
 B. T.
3. W. A palo verde, 10 ins. diam.
 bears $S 83^{\circ} W$, 23 lks. dist.;
 marked T. 11 S. R. 11 E. S. 23.
 B. T.

Subdivision of
Chains

A palo verde, 6 ins. diam.
bears $N 78^{\circ} \frac{1}{4} W$, 90 lks. dist.,
marked T. 11 S. R. 11 E.
S. 14 B. T.

Land, gently rolling
Soil, sandy and gravelly
loam; 2nd and 3rd rate
Timber, scattering
palo verde and mesquite,
undergrowth greasewood

T.
Cha

4.
4.
10.
16.
19.
39
40.

$N 89^{\circ} 58' E$, on a random
line, bet. sees. 13 and 24
40.00 Set temp. $\frac{1}{4}$ sec. cov.
80.38 Intersect E. ldy. of Tps.
14 lks. N. of cov. of sees
13, 18, 19 and 24
Thence, I run
 $N 89^{\circ} 56' W$, on a true line

L T. 11 S. R. 11 E. - Continued

Chairs

am.

bet. secs. 13 and 24

dict.;

Over rolling land, through scattering timber, and undergrowth

E.

2

4.15 Dry wash, 35 lks. wide, course S.

elby

4.60 Dry wash, 25 lks. wide, course S.

ate

10.60 Dry wash, 20 lks. wide, course S.

3

16.05 Dry wash, 9 lks. wide, course S.

mesquite;

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

sewood

39.35 Dry wash, 30 lks. wide, course S.

4

40.19 Set a quartz stone 18x12x6

5

ins., 12 ins. in the ground

6

for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$

7

on N. face, from which

8

An ironwood 6 ins. diam.

9

bears $N 27\frac{1}{2}^{\circ} W$. 85 lks. dist.

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

An ironwood 14 ins. diam.

bears $S 25^{\circ} E$, 47 lks. dist.

Chains	Subdivision of	T. 11 Chains
	marked $\frac{1}{4}$ S. B. T.	
45.90	Dry wash, 20 lks. wide, course S.	
54.90	Dry wash, 15 lks. wide, course S.	.30
56.60	Trail, bears N. E. and S. W.	
61.40	Dry wash, 10 lks. wide, course S.	2.50
65.60	Dry wash, 8 lks. wide, course S.	11.40
69.60	Trail, bears N. and S.	15.30
71.00	Dry wash, 10 lks. wide, course S.	16.50
78.05	Road to Owl's Head bears N. E. and S. W.	23.00 23.50
80.38	The cor. of secs. 13, 14, 23 rd & 24 th Land rolling Soil, gravelly loam; 3 rd rate Timber, palo verde and ironwood; undergrowth greasewood	27.70 30.40 31.20 34.63 35.25 40.00
July 31. 1895		

N 001' W. bet. secs. 13 and 14
Over rolling land, through

T. 11 S. R. 11 E. - Continued

Chains

- scattering timber and under-
growth.
- 1.30 Foot of spur. bears N. E. and S. W.
and dry wash, 6 lks. wide, course S. W.
- 2.50 Dry wash, 6 lks. wide, course S. W.
- 11.40 Dry wash, 7 lks. wide, course S. W.
- 15.30 Dry wash, 9 lks. wide, course S. W.
- 16.50 Dry wash, 8 lks. wide, course S. W.
- 23.00 Trail, bears N. E. and S. W.
- 23.50 Dry wash, 10 lks. wide, course S. W.
- 27.70 Dry wash, ⁶⁰ 50 lks. wide, course S. W.
- 30.40 Dry wash, 20 lks. wide, course S. W.
- 31.20 Trail, bears N. E. and S. W.
- 34.63 Trail, bears N. E. and S. W.
- 35.25 Dry wash, 10 lks. wide, course S. W.
- 40.00 Set a granite stone 16x6x4
ins., 12 ins. in the ground
for $\frac{1}{4}$ sec. cor., marked
 $\frac{1}{4}$ on W. face, from which

Subdivisions of

Chains

T. 11
Chain

A palo verde, 4 ins. diam.
bears $N 64^{\circ} E$, 70 lks. dist,
marked $\frac{1}{4}$ S. B. T.

A palo verde, 5 ins. diam.
bears $S 40^{\circ} W$, 159 lks. dist,
marked $\frac{1}{4}$ S. B. T.

58.75 Dry wash, 50 lks. wide, course
S. W.

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

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

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

80.00 Set a granite stone $18 \times 6 \times 6$
ins., 12 ins. in the ground
for cor. of secs. 11, 12, 13^{and} 14,
marked with 4 notches
on S. and 1 notch on
E. edges; from which
A palo verde, 10 ins. diam.
bears $N 47\frac{1}{2}^{\circ} E$, 110 lks.

T. 11 S. R. 11 E. - Continued

Chairs

diam.

dist;

dist; marked T. 11 S. R. 11 E.

S. 12. B. T.

diam.

dist;

A palo verde, 6 ins. diam.

bears S $32\frac{1}{4}^{\circ}$ E, 24 lbs. dist;

marked T. 11 S. R. 11 E.

S. 13. B. T.

course

A palo verde, 12 ins. diam.

bears S $34\frac{1}{2}^{\circ}$ W. 200 lbs.

course S. W.

dist. marked T. 11 S. R. 11 E.

course S. W.

S. 14. B. T.

course S. W.

A palo verde, 12 ins. diam.

2.18x6x6

bears N 35° W, 92 lbs. dist;

round

marked T. 11 S. R. 11 E. S. 11 B. T.

2, 13^{and} 14,

Land, rolling

watches

Soil, gravelly loam; 3rd rate

h on

Timber, palo verde; under-

hich

growth, greasewood.

diam.

lbs.

S $89^{\circ}56'$ E, on a random

Subdivision of
chains

line, bet. sees. 12 and 13

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

80.33 Intersect E. bdy. of Tp.
5 lks. W. of cor. of sees.
7, 12, 13 and 18

Thence I run

$N89^{\circ}58'W$, on a true line
bet. sees. 12 and 13

Over, rolling land, through
scattering timber and
undergrowth

23.10 Descend from mesa

23.90 Foot of mesa

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

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

27.10 Dry wash, 30 lks. wide, course S.W.

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

30.30 Road to Owl's Head,
bears N.E. and S. W.

of

nd 13

00.

of 5p.

sees.

the line

3

through

and

asa)

course S.W.

course S.W.

course S.W.

course S.W.

ad,
W.

Continued to the
Council, Nov. 1944