

1.

RESURVEYS:

N + W Bdy T14S R15E

N Bdy T 14S R16E

1795

(FT. LOWELL MIL. RES)

CONTRACT NO 63

CONTZEN

U.S. DEP. SUR

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BOOK 1795

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FIELD NOTES

GENERAL LAND OFFICE.

1795

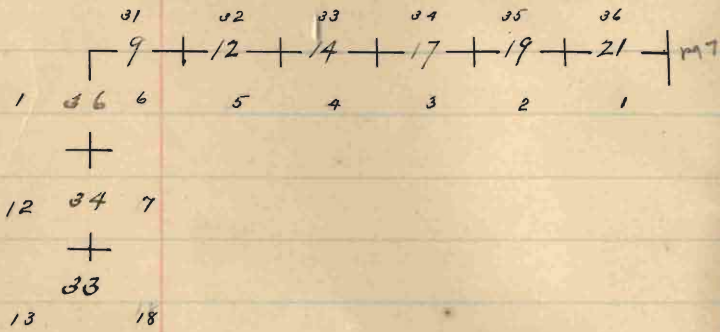
Field Notes
of the resurvey of the
North and West Boundaries
of
Township 14 S. Range 15 East
and the North Boundary of
Township 14 South Range 16 East
of the
Gila and Salt River Base and Meridian
in the
Territory of Arizona
as surveyed by
Philip Coutzen
U. S. Deputy Surveyor
Under his contract No 63
Dated Jan 12. 1900.
Survey commenced July 5. 1900
Survey completed July 12. 1900.

1A

BOOK 1795

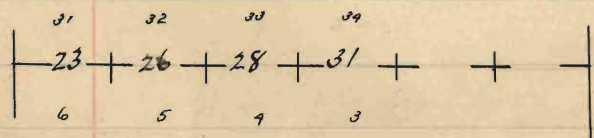
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W. and N. Bdy. T. 14 S. R. 15 E.



BOOK 1795

N. Bdy. T. 14 S. R. 16 E.



18

Preliminary Oaths of Assistants.

We, Martin Ranzy
 and G. Wheatley
 do solemnly swear that we will well and faithfully
 execute the duties of Chain Carriers; that we will
 level the chain upon even and uneven ground, and
 plumb the tally pins, either by sticking or dropping
 the same; that we will report the true distance to
 all notable objects, and the true lengths of all lines
 that we assist in measuring, to the best of our skill
 and ability, and in accordance with instructions
 given us, in the survey of the Exteriors
and subdivisioanal
lines of Tps. 14 & Rs 15 & 16
within the Fort Lowell
Military Reservation
 also meander lines of Sangre Verde River
 of the Gila and Salt River Base and Meridian in
 the Territory of Arizona.

Martin Ranzy Chainman.
G. Wheatley Chainman.
 _____ Chainman.
 _____ Chainman.

Subscribed and sworn before me, this 2nd

day of July 1800

J. W. Parrell
 Notary Public.

[SEAL.] mylan 4 2/2/1901

We, Frank Ryder,
Fred. Eagles and Manuel Salazar,
do solemnly swear that we will well and truly per-
form the duties of flagman and
axemen
in the establishment of corners and other duties,
according to instructions given us, and to the best
of our skill and ability, in the survey of the Exterior
and subdivisional lines
of Tps 14 S. Rs 15 & 16 E
within the Fort Lowell
Military Reservation;
also mandle lines of Sanque Verde River
of the Gila and Salt River Base and Meridian, in
the Territory of Arizona.

Frank Ryder, flagman
Fred Eagles, axeman
Manuel x Salazar, axeman

Subscribed and sworn to before me this 2nd

day of July 1800

J. W. Purcell

Notary Public.

my Comm. 21 3/24/1901

North bdy, T4S, R16E.

Survey commenced July 5, 1900
and executed with a young sons
light mountain transit No 5609
with a Smiths solar attachment
The horizontal limb is provided
with two double verniers placed
opposite to each other reading
to single minutes of arc
which is also the least count
of the verniers of the latitude
and declination arcs.

The instrument was examined
tested on the true meridian
at Tucson, A.T. found correct
and was approved by the
surveyor general of Arizona
July, 1899-

In order to test the solar
apparatus by comparing the

North Boundary T 14 S. R 16 E, continued

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

Being unable to find readily the corner to Townships 14 S. R. 14 and 15 E. nor any other corners on the north boundary of T_p. 14 S. R 15 E. I proceed to the corner to secs. 2, 3, 34 and 35 on the North boundary of T 14 S. R. 16 E. which is a stone firmly set in the ground marked and witnessed as described by the surveyor General. In order to

BOOK 1795

test my solar by am. and
P.M. observations with the
true meridian I proceed
as follows: at the above
described corner, July 5, 1900
at 3:20 P.M. l.m.t. I set off
 $32^{\circ}15'$ on the lat. arc; $22^{\circ}47'$ N
on the decl. arc and mark
the true meridian thus
determined with the solar
by a cross on a stone firmly
set in the ground 5 chs. N
of the instrument.

at 12:29 am. l.m.t. I observe
Polaris at Eastern elongation
in accordance with instructions
in the manual and mark
the line thus determined by
a tack driven in a wooden.

North Boundary T14S R16E continued

plug set in the ground 5
chs. N of my station.

At 8^h30^m am. I lay off the
azimuth of Polaris 1°27' to
the West and mark the
true meridian thus determined
by cutting a small groove
in the stone set yesterday
on which the true meridian
falls. 0.15 ins W. of the mark
determined by the solar.

July 6, 1900 at 8^h50^m am. l.m.t.
I set off 32°15' on the lat. arc;
22°42' N on the decl. arc. and
determine a true meridian
with the solar and mark
the point by a cross on the
stone already set 5 chs. N
of my station. This mark

Resurvey N. bdy. T/48, R/68. continue

falls 0.2 ins. W of the true meridian established by the Polaris observation. The solar apparatus by P.M. and am. observations defines positions for true meridians about 0'8" E and 0'11" W of the true 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 a.m. is $12^{\circ}33'$ W. the angle thus determined reduced by the table page 100 gives the mean magnetic variation

Resurvey N. Tdy, T14S, R16E, continued

12°30' E, Thence from the
above described corner
Crun

West on a blank line.

- 40.30 small mound of stone
35 lks south.
- 80.04 Faint evidence of old cor.
71 lks. S. old bearing tree stumps.
- 119.80 Faint evidence of old $\frac{1}{4}$ cor.
72 lks. S.
- 159.64 Faint evidence of old cor
70 lks. S.
- 199.35 Faint evidence of old cor
71 lks. S.
- 239.34 Faint evidence of old cor.
70 lks. S.
- 279.36 Faint evidence of old cor
72 lks. S.
- 319.14 Faint evidence of old cor. 7 $\frac{1}{2}$ lks. S.

Resurvey N. Body T148, R15E.

Reestablish the cor. to
 Tps. 13S, Rs 15 and 16 E in its
 original place as follows:
 Set a granite stone 18x8x7 ins.
 12 ins. in the ground for cor
 of Tps. 13S, Rs. 15 and 16 E
 marked with 6 notches on
 N, E and W. edges from which
 a mesquite 8 ins. diam.
 bears N 24 1/2° E 82 lks. dist
 marked T13 S R16E, S31 B.T.
 A mesquite 6 ins. diam.
 bears N 17 3/4° W. 138 lks. dist.
 marked T13S, R15E, S36 B.T.
 Thence from the above
 described cor.

July 7, 1900 I continue
 West on a blank line,
 on N Body of T148, R15E.

Resurvey N. bdy. T/4S. R/5E. continued
chains

- 40.11 Faint evidence of old $\frac{1}{4}$ sec cor
11 $\frac{1}{2}$ lks. S.
- 80.11 Faint evidence of old sec cor.
24 lks. S.
- 120.35 Faint evidence of old $\frac{1}{4}$ sec cor.
42 lks. S.
- 160.54 No signs of old sec cor except
one bearing tree.
- 200.69 Faint evidence of old $\frac{1}{4}$ sec cor
82 lks. S.
- 240.64 Faint evidence of old sec cor
105 lks. S.
- 281.17 Faint evidence of old $\frac{1}{4}$ sec cor.
30 lks S. old bearing tree marked
- 321.02 Faint evidence of old sec cor.
166 lks. S. old stump of bearing tree.
- 361.66 Faint evidence of old $\frac{1}{4}$ sec cor.
189 lks. S. old stumps of bearing trees
- 401.17 Faint evidence of old sec cor.

Resurvey of the N. Tdy. T14S. R15E. continued

172 lks. S. old stumps of bearing trees.

441.31 Faint evidence of old $\frac{1}{4}$ sec cor.
189 $\frac{1}{2}$ lks S. old stumps of bearing trees.

480.93 Faint evidence of old Tp. cor.
I reestablish same in its original place as follows:
Set a Granite stone 18x8x6 ins. 12 ins. in the ground for cor of Tps 13 and 14 S, Rs. 14 and 15 E. marked with 6 notches on each edge. dig pits, 24x24x12 ins on each line N.E. and W of cor. 4 ft. and S of stone 8 ft. and raised a mound of earth 5 ft base, 2 $\frac{1}{2}$ ft high S. of cor. a mesquite 4 ins. diam. bears S 34° E 136 lks. dist. marked

Resurvey of the N. bdy. of T 14 S, R 15 E. continued

T 14 S, R 15 E, S. 6, B. T.

a mesquite 4 ins. diam. bears
 N 63° W 115 lks. dist. marked
 T 13 S R 14 E, S 36 B. T. no other
 trees within limits.

Thence I run

N 89° 24' E. bet. secs. 6 and 31

Through dense undergrowth.

24.00 Enter Pantano River course ~~N~~ SE.35.00 Leave Pantano River course ~~N~~ SE

39.63 Set a lime stone 18 x 8 x 6 ins.

12 ins. in the ground for

 $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ S 31

on N face,

from which a mesquite

6 ins. diam. bears N 67° 4' W

276 lks. dist. marked $\frac{1}{4}$ S

31. B. T. dug pits 18 x 18 x 12 ins.

E and W of cor. 3 ft. and raised

Resurvey of the N. bdy. of T. 14S. R. 15E. continued

a mound of earth $3\frac{1}{2}$ ft base
 $1\frac{1}{2}$ ft. high. N of cor.

I destroy all evidence of
 old cor.

Thence N $89^{\circ}45'E$

- 43.00 Leave Pantano Valley
- 53.00 Road from Tucson to Tanque Verde
 bears NE
- 59.00 Road from Tucson to Tanque Verde
 bears NE
- 68.00 Road bears N $80^{\circ}E$ and S $80^{\circ}W$
- 79.76 Set a Limestone $18 \times 8 \times 8$ ins.
 12 ins. in the ground for cor.
 of secs. 31 and 32 marked
 with 1 notch on N, and 5 notches
 on E edges, from which
 a mesquite 6 ins. diam. bears
 N $74^{\circ}E$ 220 chs. marked.
 T. 13S. R. 15E. S. 32 13T.

Resurvey of the N. bdy. of T14S. R15E. continued

dug pits 18x18x12 ins. in each sec.
5½ ft. dist. and raised a mound of earth
3½ ft. base, ½ ft. high N. of cor.

Land rolling.

Soil, sandy and gravelly, 2nd & 3rd rate

Timber, mesquite

Undergrowth, greasewood

Land covered with dense under-
growth 24.00 chs.

July 9, 1900.

S89°45'E bet. secs. 5 and 32.
over rolling land.

20.00 enter dense undergrowth

39.52 Set a granite stone 18x18x8 ins.
12 ins. in the ground for ¼ sec
cor. marked ¼ S 32. on N face
from which

a mesquite 6 ins. diam. bears
N78°E 89 lks. dist. marked

Resurvey of the N. bdy. of T. 14S. R. 15E. continued
chains

4S 32 B.T.

a mesquite 5 ins. diam,
bears $N 6^{\circ} W$, 155 lks. dist,
marked 4S 32 B.T.

Thence $N 89^{\circ} 40' E$.

80.16

Set a sandstone $18 \times 8 \times 8$ ins.
12 ins. in the ground for
cor of secs. 32 and 33
marked with 2 notches on
W and 4 notches on E edges,
from which

a mesquite 6 ins. diam, bears
 $N 48\frac{1}{2}^{\circ} W$, 185 lks. dist, marked
T 13S, R 15E, S. 32, B.T.

a mesquite 12 ins. diam,
bears $N 56\frac{3}{4}^{\circ} E$, 38 lks. dist,
marked T 13S, R 15E, S 33 B.T.

Destroy all traces of old
cor.

Survey of the N. bdy. of T14S, R15E, continued
chains

Land rolling.

Soil, gravelly, 2nd & 3rd rate

Timber, a few mesquite

Undergrowth, greasewood
and mesquite.

Land covered with dense
undergrowth, 60.16 chs.

$N89^{\circ}29'E$, bet secs. 4 and 33

10.00 Enter dense undergrowth.

39.85 Set a Granite stone $18 \times 10 \times 6$ ins.
12 ins. in the ground for $\frac{1}{4}$ sec. cor.
marked $\frac{1}{4} S 33$ on N face,
from which

a mesquite 8 ins. diam. bears
 $N37^{\circ}E$ 68 lks. dist. marked
 $\frac{1}{4} S 33$ B.T.

a mesquite 4 ins. diam. bears
 $N56^{\circ}W$, 45 lks. dist. marked
 $\frac{1}{4} S. 33$ B.T. I destroy all traces
of old cor.

Resurvey of the N. bdy. of T14S. R15E. continued
chains

Thence ³⁹ N 89° 39' E.

46.00 Enter Valley, bears N.W.

52.00 Wash, 20 yds. wide course N.W.

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

60.00 Leave dense undergrowth.

59.10 Left Bank of Tanque Verde River

Set a granite stone 18x6x5 ins.

12 ins. in the ground for

meander corner of frac'l

secs 4 and 33, marked

MC. on E face, with 6 notches

on S. from which a found

10 ins. diam. bears N 57 $\frac{3}{4}$ ° W.

74 yds. dist marked T13S. R15E

S33. MC. 13T.

An ash 10 ins. diam. bears

S 63 $\frac{3}{4}$ ° E 113 yds. dist. marked

T14S. R15E. S4 MC. 13T.

66.90

Right Bank of Tanque Verde
River, course N.W.

urvey of the N. bdy. of T14S. R15E. continued
 chain

Set a Granite stone 18x12x8 ins.
 12 ins. in the ground for meander
 corner to fracl secs. 4 and 33
 marked MC on W face, with
 6 notches on S. from which
 an alder 10 ins. diam. bears
 S73 $\frac{1}{4}$ °E 155 lks. dist. marked
 T14S. R15E. S4 MC. B.T.

a Jano 8 ins. diam. bears
 N10 $\frac{1}{4}$ °W 98 lks. dist. marked
 T13S. R15E. S33 MC. B.T.

0.40

Set a Granite stone 18x8x6 ins.
 12 ins. in the ground for cor
 of secs. 33 and 34 marked
 with 3 notches on E and W
 edges. from which
 a mesquite 7 ins. diam. bears
 N39 $\frac{1}{4}$ °E. 226 lks. dist. marked
 T13S. R15E. S34 B.T.

Resurvey of the N. vdy of T14S, R15E. continued
chains

A mesquite 4 ins. diam. bears
N 35½° W. 280 chs dist. marked
T13S, R15E, S 33 BT.

I destroy all indications
of old cor.

Land level and rolling
Soil, gravelly, 2nd rate

Timber, some mesquite
Tesolā and cattowood.

Undergrowth, mesquite

Land covered with dense
undergrowth 50.00 chs.

N 89° 49 E. bet. secs 3 and 34
over level land

13.00 Aguilar ranch, 15 chs. S.

31.50 Road to Tucson bears N 80° W
and S 80° E.

39.95 Bet a granite stone 18x8x6 ins.
12 ins. in the ground for

Survey of the N. W. 1/4 of T 14 S. R 15 E. continued
 chains

1/4 sec. cor. marked 1/4 S 34
 on N face.

from which

a mesquite 18 ins. diam. bears
 N 8 1/2° W 89 lks. dist. marked

1/4 S 34 B.T.

a mesquite 18 ins. diam.

bears, N 39 3/4° E, 85 lks. dist.

marked 1/4 S 34 B.T.

Thence N 89° 43' E

60.00

Enter dense mesquite

50.10

Set a Granite stone 18x10x8 ins.

12 ins. in the ground for

for cor of secs. 34 and 35

marked with 2 notches on

E and 4 notches on Wedges

from which

a mesquite 8 ins. diam. bears

N 15° E 173 lks. dist. marked

T 13 S. R 15 E. S 35 B.T.

Resurvey of the N. bdy. of T14S. R15E continued
Chains

a mesquite 10 ins. diam.
bears N30 $\frac{1}{2}$ ° W. 38 lks. dist.
marked T13S. R15E. S 33. B.T.
No trace of old cor. except one
bearing tree.

Land level

Soil, gravelly and sandy, 2nd rate
Timber, some mesquite and
cottonwood.

Undergrowth, mesquite
Land covered with dense
undergrowth. 20.10 chs.

N89°43'E. bet secs. 2 and 35
Through dense mesquite.

26.00 Miguel Escalante Ranch 24 chs S.

40.12 Set a sand stone 18x12x6 ins.

12 ins. in the ground for $\frac{1}{4}$ sec.
Cor. marked $\frac{1}{4}$ S 35 on N face

Survey of the Nbdy of T14S, R15E, continued
chains

2 on S face, from which
a mesquite 10 ins. diam. bears
N45 $\frac{3}{4}$ °E, 33 lks. dist. marked
1/4 S 35. B.T.

A mesquite 7 ins. diam. bears
N33 $\frac{1}{2}$ °W, 158 lks. dist. marked
1/4 S 35 B.T. I destroy all

traces of old cor.

Thence N89°45'E.

42.00

Enter draw, course S.W.

49.50

Leave draw.

66.00

Road bears NE.

80.36

Set a Granite stone 18x8x6 ins.
12 ins. in the ground for cor
to secs. 35 and 36, marked
with 1 notch on E and 5 notches
on W. edges, from which,
a mesquite 5 ins. diam.
bears N32°E, 325 lks. dist.
marked, T13S, R15E, S36, B.T.

Resurvey of the N. rdy. of T14S. R15E. continued
chains

A mesquite 5 ins. diam. bears
N47 $\frac{1}{4}$ ° W 180 $\frac{1}{2}$ lks. dist, marked
T13S, R15E S. 35, BT.

Destroy all evidence of old
cor.

Land level

Soil, gravelly and sandy, 1st & 2nd rate

Timber, a few mesquite

Undergrowth, mesquite

Land covered with dense
undergrowth. 80.36 chs.

July 9, 1900.

July 10, 1900.

N89°50'E. bet secs 1 and 36,
over level land, through
dense undergrowth

24.60 Wash 60 lks wide, course SE

36.00 Leave dense undergrowth

Resurvey of the N bdy. of T 14 S, R 15 E continued
chains

- 36.60 Brush fence bears N and S
- 40.07 Set a Quartzite stone $8 \times 12 \times 6$ ins.
12 ins in the ground for $\frac{1}{4}$
sec. cor. marked $\frac{1}{4}$ S 36 on N
face. from which
a Tesolā 8 ins. diam. bears
N $13\frac{3}{4}^{\circ}$ E. 396 lks. dist. marked
 $\frac{1}{4}$ S 36. B.T.
- a Tesolā 12 ins. diam. bears
N $26\frac{1}{2}^{\circ}$ E 257 lks dist marked
 $\frac{1}{4}$ S. 36 B.T.
- 53.10 Wire fence bears N and S
- 53.50 Blas Galas ranch and well
1.50 chs S.
- 55.30 Road bears N and S
- 56.00 Enter dense undergrowth
- 58.00 Wickiup 1.50 chs S
- 80.18 The cor to Tps. 13 S, R 15 and 16 E
as heretofore described.

Resurvey of the N bdy. of T 14 S R 16 E. continued
 a chains

Land level and rolling
 Soil, gravelly, 2nd rate
 Timber, some mesquite
 and walnut.

Land covered with dense
 undergrowth, 60.18 chs.

Thence from the above
 described corner to Tps. 13 S.

Rs 15 and 16 E.

Or run.

East, bet secs. 6 and 31

on the N. bdy of T 14 S. R 16 E.

avg level and rolling land
 through dense undergrowth
 road to Ayua Caliente bears

6.40

N and S

29.80

Road bears N and S.

39.78

Set a granite stone 18x8x8 ins.
 12 ins. in the ground for $\frac{1}{4}$ sec

Resurvey of the N. 1/4 of T14S. R16E. continued
chains

cor. marked $\frac{1}{4}$ S 31 on N face
6 on S face. from which,
a mesquite 10 ins. diam. bears
N44°W. 127 lks dist. marked
 $\frac{1}{4}$ S. 31. 13T

A mesquite, the old bearing
true, 12 ins. diam. bears
S85°W 68 lks. dist. marked
 $\frac{1}{4}$ S 6. 13T. I destroy all
indications of old cor.

54.40 Road bears NE and SW.

79.80 Set a Quartzite stone 18x8x8 ins
12 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 Palo Verde 5 ins. diam. bears
N55°W. 88 lks. dist. marked
T13S. R16E. S 31. 13T.

21 2 25

Resurvey of the N. bdy. of T14S, R16E. continued
chains

a Palo Verde 6 ins. diam,
bears $N 62 \frac{3}{4}^{\circ} E$ 84 lks. dist.
marked T13S, R16E, S 32, BT

a mesquite 5 ins. diam, bears
 $S 29^{\circ} E$ 94 lks. dist. marked
T14S, R16E, S 5, BT.

a mesquite 6 ins. diam, bears
 $S 37 \frac{1}{2}^{\circ} W$. 99 lks. dist. marked
T14S, R16E, S. 6, BT.

I destroy all traces of old cor.
Land rolling and level.
Soil gravelly, 2nd rate
Timber, some mesquite
and Palo Verde

Undergrowth, greasewood
and mesquite

Land covered with dense
undergrowth. 79.80 chs.

Resurvey of the N. bdy. of T. 14S. R. 16E. continued.
chains

East bet secs. 5 and 32

over level and rolling land

20.20 Wash 40 lks. wide, course SW

24.10 Road to agua caliente bears N and S

39.85 Set a granite stone 18 x 8 x 6 ins.

12 ins. in the ground for $\frac{1}{4}$

sec. cor. marked $\frac{1}{4}$ S 32 on N

face. 5 on S face from which

a mesquite 10 ins. diam.

bears N 59° E, 26 lks. dist. marked

$\frac{1}{4}$ S 32. B.T.

A mesquite 4 ins. diam. bears

S $20\frac{1}{2}^{\circ}$ W 109 lks. dist. marked

$\frac{1}{4}$ S 5. B.T.

A mesquite 8 ins. diam. bears

N $46\frac{1}{2}^{\circ}$ W. 175 $\frac{1}{2}$ lks. dist. marked

$\frac{1}{4}$ S 32 B.T.

58.50 Enter Valley bears S

75.00 Leave dense mesquite

Resurvey of the N. bdy. of T14S. R16E, continued.
chains

79.70

Set a granite stone 20x12x10 ins.
15 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 N 50 3/4° W, 171 lks. dist.
marked T13S, R16E, S. 32, BT

a mesquite 12 ins. diam.
bears N 22° E, 198 lks. dist
marked T13S, R16E, S 33 B.T.

A Palo Verde 12 ins. diam.
bears S 11 3/4° E, 180 lks. dist
marked T14S, R16E, S 4, B.T.

a mesquite 8 ins. diam. The
old bearing tree, bears S 26 1/4° W
67 lks. dist. marked T14S,
R16E, S. 5, B.T. I destroy all
tree of old corner

Resurvey of the N. hdy. of T14S. R16E. continued.
chain

Land level and rolling
Soil gravelly, 2nd rate
Timber, mesquite and Palo Verde.
Undergrowth, mesquite and cholla.
Land covered with dense
undergrowth, 75,00 cho.

East, bet. secs 4 and 33
over rolling land.

0.30 Wash 12 lks. wide, course S.W.
Enter rolling mesa through dense
Palo Verde

32.65 Wash 20 lks. wide, course S.W.

39.84 Bet a Quartzite rock 18x10x6 ins.
12 ins. in the ground $\frac{1}{4}$ sec cor.
marked $\frac{1}{4}$ S 33, on N face. 4
on S face from which,
a mesquite 12 ins. diam
bears N 72° W, 13 lks. dist. marked

Resurvey of the N. bdy. of T. 14 S. R. 16 E. continued
chains

45.33 B.T.

A Palo Verde 6 ins. diam.
bears $N 12^{\circ} W$, 20 lks. dist.
marked 45.33. B.T.

59.00 Wash 10 lks. wide, course SW

66.00 Leave dense Palo Verde and
enter dense mesquite

66.30 Wash 20 lks. wide course SW.

70.30 Road bears N and S

74.50 Wash 20 lks. wide, course S

79.60 Set a Granite stone $18 \times 10 \times 8$ ins.
12 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 10 ins. diam.
bears $N 3\frac{1}{2}^{\circ} W$ 65 lks. dist.

marked T 13 S R 16 E, S 33. B.T.

a mesquite 12 ins. diam.

Resurvey of the N. bdy. of T14S, R16E, continued.
chains

bears N 29° E, 78 lks, dist. marked

T13S, R16E, S34, B.T.

A mesquite 6 ins. diam. bears

N 60° W, 77 lks, dist. marked

T13S, R16E, S33, B.T.

A mesquite 10 ins. diam. bears

S 15° E 185 lks, dist. marked

T14S, R16E, S3, B.T.

A mesquite 6 ins. diam. bears

S 27¼° W, 89 lks, dist. marked

T14S, R16E, S4, B.T.

I destroy all traces of old
cor.

Land level and rolling

Soil gravelly, 2nd rate

Timber, mesquite

Undergrowth, Palo Verde and

mesquite,

Land covered with dense undergrowth

79.30 chs.

July 10, 1900.

Resurvey of the N. bdy. of T. 14 S. R. 16 E. continued
chains

- 789°30' set. secs 3 and 34
over rolling land.
- 4.00 Leave mesquite and enter
dense Palo Verde
- 18.30 old road bears N and S
- 36.15 Wash 60 lks. wide, course S Westerly
- 40.19 Set a granite stone 18x8x6 ins.
12 ins. in the ground for $\frac{1}{4}$ sec
cor. marked $\frac{1}{4}$ S 34 on N face,
3 on S. face, and raise a
mound of stone 2 ft base
 $\frac{1}{2}$ ft high. N of cor. Pits
impracticable. I destroy all
indications of old cor.
- 41.00 ascend over bluffs.
- 50.00 Top of ascent, descend
78.96 The closing cor. of the E. boundary, Fort Lowell
Military Reservation, abandoned
80.18 The cor. to secs 2, 3, 34 and 35
T. 14 S. R. 16 E.
Land mountainous and
rolling.

Resurvey of the N. bdy of T14S, R16E. concluded
chains

Soil, gravelly. 2nd & 3rd rate

Timber, some mesquite.

Undergrowth, Palo Verde

cholla and giant cacti.

Land covered with dense under-
growth and mountainous. 80.18 ch.

July 11, 1900.

80.18

78.96

1.22

Resurvey of the W. bdy. of T14S, R15E.
chains

July 12, 1900, at 1.30 P.M. amt
I set off 32°13' on the lat. arc:
21°58' from the decl. arc, and
determine a true meridian
with the solar at the
closing corner to frac. secs.
13 and 18 on the W. bdy of
T14S, R15E, which is a stone
firmly set in the ground,
marked and witnessed and
described by the surveyor
General.

Thence I run
North bet secs. 13 and 18
over level land.

25.16 Faint evidence of old sec.
cor. I reestablish the cor.
at the same point as follows:
Set a Limestone 18x6x5 ins.

Resurvey of the W. bdy of T14S, R15E, continued
chains

12 ins. in the ground for cor.
of secs. 12 and 13. marked
with 4 notches on S. and
2 notches on N. edges, from
which.

a mesquite 4 ins. diam.
bears S $11\frac{1}{2}^{\circ}$ W 142 lks. dist.

marked T14S, R14E S. 13 B.T.

a Palo Verde 7 ins. diam. bears
N 32° W. 306 $\frac{1}{2}$ lks. dist. marked

T14S, R14E, S. 12 B.T.

Land level

Soil, sandy and gravelly, 2nd rate

No timber.

scattering greasewood

North, bet. secs. 7 and 12.

over level land

40.00

Faint evidence of old $\frac{1}{4}$ sec.

Resurvey of the N. bdy. of T¹⁴⁵. R^{15E} continued
chains

cor. I reestablish it at the
same point as follows:-

Set a granite stone 18x8x5 ins.
12 ins. in the ground for $\frac{1}{4}$
sec cor. marked $\frac{1}{4}$ S 12 on
W face.

from which

a mesquite 5 ins. diam. bears
S $71\frac{1}{2}^{\circ}$ W. 99 lks. dist. marked
 $\frac{1}{4}$ S. 12 B.T.

A mesquite 6 ins. diam
bears S $78\frac{3}{4}^{\circ}$ W. 103 lks. dist.
marked $\frac{1}{4}$ S 12 B.T.

80.00 No signs of old sec. cor.

Set a granite stone 18x8x8 ins.
12 ins. in the ground for cor.
to secs 1 and 12. marked
with 5 notches on S and 1
notch on N edges.

Resurvey of the W. bdy. of T¹/₄S. R¹⁵E continued
chains

dig pits 18x18x12 ins. in secs.
1 and 12. 5½ ft dist. and
raised a mound of earth
3½ ft base. 1½ ft high W. of cor.
Land level

Soil, sandy and gravelly, 1st & 2nd rate
No timber,
some greasewood and cholla

North, bet. secs. 1 and 6.

over level and rolling land

40.00

Set a Granite stone 20x10x2½ ins.
12 ins. in the ground for ¼ sec.
cor. marked ¼ S 1 on W face;

from which

a Palo Verde 8 ins. diam. bears
N 58¼° W 131 lks. dist. marked
¼ S 1, B.T.

a Palo Verde 8 ins. diam. bears

Resurvey of the W. bdy. of T14S R15E. concluded
chains

- 571° W. 128 chs. dist. marked
481. BT.
- No indications of old $\frac{1}{4}$ sec. cor.
- 44.40 Wash 10 chs. wide, course NW.
- 53.00 Enter Pantano Valley
- 59.80 Road to Tucson bears NW and SE
- 62.60 Road bears S80° W and N80° E
from Tucson to Tanque Verde
- 80.00 The cor. to T₁₄S¹⁴ R₁₄ and R₁₅E,
as heretofore described,
Land level and rolling
Soil sandy and gravelly. 2nd rate
Timber, some mesquite and
Palo Verde.
Undergrowth, greasewood
and mesquite.

July 12. 1900

APPROVAL.

OFFICE OF THE U. S. SURVEYOR GENERAL.

Tucson Arizona, 1902.

The foregoing field notes of the ^{Re} survey of North² and West Rds - T14S; R15E. and
North Rdy - of - T14S; R16E - - - -

GILA & SALT RIVER MERIDIAN.

executed by, Philip Bentzen - - - -
 under his contract, NO. 63 dated, 4/8/1902
 having been critically examined, and the
 necessary corrections and explanations made,
 the said field notes, and the surveys they
 described, are hereby approved.

Hugh W. Price

U. S. Surveyor General of Ariz.