

E + N. BOUNDARIES

T 14 S R 1 E

CONTRACT 104

PH. CONTEZEN
U.S. DEP. SUR

1723

1723

BOOK 1723

4-671

FIELD NOTES
GENERAL LAND OFFICE.

1723

A.

1723

BOOK 1723

Field Notes
of the survey of the
East and North Boundaries
of
Township No. 14 South
Range No. 11 East
of the
Gila and Salt River Base and Meridian
in the
Territory of Arizona
so surveyed by
Philip Cortzen
U. S. Deputy Surveyor

Under his contract No. 104

Dated November 15, 1903.

Survey commenced March 10, 1903.

Survey completed March 12, 1903.

Preliminary Oaths of Assistants.

We, *John M. Trayer*.....
 and *Walter Harrison Hill*.....
 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 *Ex. teriors and*
Subdivision lines of
Tps 13²/₄ S. R's 10-11 E

of the Gila and Salt River Base and Meridian, in the Ter-
 ritory of Arizona.

Walter Harrison Hill Chainman.

John M. Trayer Chainman.

..... Chainman.

..... Chainman.

Sworn and subscribed before me, this *5th*.....

day of *March*..... 1903

Homer Sauter

Notary Public.

My commission expires

Jan. 17 1907

[SEAL.]

We, *Charles M. Pogue*
and Frank Ryder

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

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 *Ex. teriors.*
and subdivision lines
of *Tps 13²/₄ & 14 S. Rs 10²/₄ & 11 E*

of the Gila and Salt River Base and Meridian, in the Ter-
ritory of Arizona.

Chas M. Pogue Flagman.

Axeman.

Axeman.

Frank Ryder Axeman.

Subscribed and sworn to before me this *5th*

day of *March*, 1903

Homer Dauter
Notary Public.

My Commission expires
Jan. 17, 1907



Survey commenced March 9, 1903, and executed with a Young and Sons light mountain transit No. 5607, with 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 Phoenix, found correct, and was approved by the surveyor general for Arizona, March 2, 1903.

Examined the adjustments of the transit, and corrected the level and collimation errors; then to test the solar apparatus, by comparing its indications, resulting from solar observations made during a.m. and p.m. hours, with a meridian



determined by observations on Solaris,
 & proceed as follows:

At the eve of Sep 14 and 15, P's 11 and 12
 E, which is a stone, marked and witnessed
 as described by the surveyor general;

latitude $32^{\circ}10' N$, longitude $111^{\circ}09'48'' W$.

Set off $32^{\circ}10' N$ on the lat arc, $4^{\circ}39' S$

on the decl arc, and at $3^h 10^m$ p.m., l.m.t.,

determine with the solar a meridian and

mark a point thereof, on a stone firmly

set in the ground, 5 chs N of the eve.

At $5^h 13^m$ p.m., l.m.t., observe Solaris at

western elongation, in accordance with

Manual of Instructions, and mark a point

in the line thus determined, on a peg

driven in the ground, 5 chs N of my station.

March 9, 1903.

March 10: At 8 a.m., l.m.t., & lay off

The azimuth of Polaris $1^{\circ}25'$ to the east and mark the meridian thus determined by cutting a small groove in the stone set March 9, on which the meridian falls 11.3 ins east of the mark determined by the solar.

At $8^{\text{h}}30^{\text{m}}$ a.m., I mt. S set off $32^{\circ}10'N$ on the lat. $4^{\circ}22' S$ on the decl and and mark a point in the meridian determined with the solar, by a cross on the stone already set, 5 chs N of my station. This mark falls 11.3 ins west of the meridian established by the Polaris observation.

The solar apparatus by p.m. and n.m. observations, defines positions for meridians, respectively about $11'16''$ east and $11'16''$ west of the meridian established by the Polaris observation,

therefore I conclude that the adjust-
ments of the instrument are satisfactory.
The magnetic bearing of the true meri-
dian at 8^h 40^m a.m. is $N 13^{\circ} 15' W$, the
angle thus determined gives the mag-
netic decl. $13^{\circ} 15' E$.

Thence I run

North bet secs. 31 and 36

Over level land

Through dense grasswood and mes-

East boundary of S 14 S, R 11 E.

Claims

9 mts underground.

14.60 Dry wash, 10 lbs wide, course Westerly.

16.20 Dry wash, 10 lbs wide, course Westerly.

27.65 Dry wash, 10 lbs wide, course Westerly.

29.47 Dry wash, 15 lbs wide, course Westerly.

30.00 Dry wash, 10 lbs wide, course Westerly.

33.35 Set a malpais stone, 20 x 8 x 6 ins, 14 ins

in the ground, for $\frac{1}{4}$ sec or marked $\frac{1}{4}$ on N face, from which

A mosquito, 4 ins diam, bears N. 18° 36' E,

68 lbs dist, marked $\frac{1}{4}$ S 31 B S.

A mosquito, 10 ins diam, bears S 42° W,

200 lbs dist, marked $\frac{1}{4}$ S 36 B S.

44.95 Bond, bears Easterly and Westerly.

73.35 Set a mosquito post, 3 ft long, 4 ins sq,

with marked stone, 24 ins in the ground,

for cor of secs 25, 30, 31 and 36, marked

S 14 S S 30 on NE,

R 12 E S 31 on SE,

East boundary of S 14 S, R 11 E.

Chain

74.53 Dry wash, 10 lbs wide, course Westwly.

8000 Set a sandstone, 18 x 8 x 8 ins, 12 ins in the ground, for ev of sur 19, 24, 25 and 30, marked with 2 notches on S and 4 notches on N. edge, from which a magnetic 5 ins chain, bears N 15° 10' W, 284 lbs dist, marked S 14 S R 11 E S 2 4 13 S; in other towns within limit, dig pits, 18 x 18 x 12 ins, N E, S E and S W of post, 5 1/2 ft dist, and raise a mound of earth 4 ft base, 2 ft high, W of ev.

Land, level and gently rolling.

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

Timber, scattering mesquite, undergrowth, grasswood and totilla.

Grain covets.

Dense undergrowth, 8000 chs.

East boundary of S 14 S B 11 E.

Chain

North, but runs 19 and 24.

Over level land.

Thorough dense grasswood.

9.00 Dry wash, 15 lbs wide, course Westerly.

4.00 Set a malpais stone, 18 x 8 x 8 ins, 12 ins in the ground, for $\frac{1}{4}$ sec and marked $\frac{1}{4}$ on W face, from whichA mesquite, 6 ins diam, bears N 32° E, 60 lbs dist, marked $\frac{1}{4}$ S 19 B S.A palo verde, 5 ins diam, bears N 48° 45' W, 122 lbs dist, marked $\frac{1}{4}$ S 24 B S; under palo verde timber and undergrowth, bear N. Westerly and S. Easterly.

47.70 Dry wash, 15 lbs wide, course Westerly.

50.22 Split cactus, 2 ft diam, 60 ft high, ^{on line} which is marked with 2 notches on S and N sides.

65.15 Dry wash, 15 lbs wide, course Westerly.

73.10 Dry wash, 30 lbs wide, course Westerly.

80.00 Set a granite stone, 24 x 8 x 8 ins, 18 ins in

East boundary of S 14 S R 11 E.

Chains

The ground, for ev of secs 13, 18, 19 and 24,
marked with 3 notches on S and N
rungs; from which

A pale wire, 7 ins diam, bears N 45° E, 170
The dist, marked S 14 S R 12 E S 18 13 S.

A pale wire, 8 ins diam, bears S 70° E, 136
The dist, marked S 14 S R 12 E S 19 13 S.

A pale wire, 8 ins diam, bears S 35° 20' N, 287
The dist, marked S 14 S R 11 E S 24 13 S.

A pale wire, 8 ins diam, bears N 60° 40' W, 47
The dist, marked S 14 S R 11 E S 13 13 S.

Level, level.

Soil, sandy and gravelly; 2nd and 3rd
rank.

Timber, pale woods and mesquite, un-
dergrowth grasswood, pale woods, mes-
quite, tree lillo and cacti.

Print cacti.

Dense undergrowth 8000 ch.

March 10, 1903: At this cor. I set off 2019' on the
decl. arc, and at 12^h 4^m l.m.t. I observe the
sun on the meridian; the resulting lat. is
32° 12'.

East boundary of P 14 S, R 11 E

Chains

North, bet surs 13 and 18.

Over gradually ascending land.

Through pale wood timber and dense undergrowth.

6.75 Dry wash, 25 lbs wide, course S. Westerly.

9.23 Road, bears Easterly and Westerly.

17.70 Road, bears Easterly and Westerly.

4.00 Set a molasses stone, 18x10x8 ins, 12 ins in the ground, for $\frac{1}{4}$ sur on, marked $\frac{1}{4}$ on W face, from whichA pale rock, 10 ins diam, bears S $54^{\circ}15' E$, 162 lbs dist, marked $\frac{1}{4}$ S 13 B S.A pale rock, 7 ins diam, bears S $25^{\circ}25' W$, 95 lbs dist, marked $\frac{1}{4}$ S 13 B S.

43.05 Dry wash, 15 lbs wide, course Westerly.

5.00 Set a granite stone, 20x10x10 ins, 15 ins in the ground, for sur of surs 7, 12, 13 and 18, marked with 4 notches on S and 2 notches on N. edge; from which

East boundary of S¹ 14 S, R 11 E.

Chains

A pale rock, 8 ins diam, bears N 86° 30' E, 24
 lbs dist, marked S¹ 14 S R 12 E S¹ 7 B S.

A pale rock, 7 ins diam, bears S 29° 10' E, 119
 lbs dist, marked S¹ 14 S R 12 E S¹ 8 B S.

A pale rock, 6 ins diam, bears S 29° 35' W, 62
 lbs dist, marked S¹ 14 S R 11 E S¹ 3 B S.

A pale rock, 10 ins diam, bears N 75° 45' W, 79
 lbs dist, marked S¹ 14 S R 11 E S¹ 2 B S.

Land, gently rolling.

Soil, sandy and gravelly; 2nd and 3rd
 rate.

Timber, pale rock and scattering iron-
 ore and musgrite, undergrowth, grass-
 wood, pale rock, tortilla and cacti.
 Grint cacti.

Dense undergrowth, 8000 lbs.

North, bet 2107 and 12.

Over gradually ascending land.

East boundary of S 14 S, R 11 E.

Chains

- Through pale red timber and dense undergrowth.
- 1.50 Dry wash, 10 lbs wide, course Westerly.
- 4.20 Dry wash, 15 lbs wide, course Westerly.
- 11.69 Guint marker, 2 ft diam, 60 ft high, on line which I mark with 2 notches on S and N sides.
- 17.30 Dry wash, 60 lbs wide, course S. Westerly.
- 25.65 Dry wash, 25 lbs wide, course S. Westerly.
- 40.00 Set a granite stone, 20 x 8 x 8 ins, 15 ins in the ground, for $\frac{1}{4}$ sec w/ marked $\frac{1}{4}$ on W. face, from which
- A pale red, 8 ins diam, bears S 63° 10' E, 27 lbs dist, marked $\frac{1}{4}$ S 7 B S.
- An iron nail, 3 ins diam, bears S 30° 10' W, 81 lbs dist, marked $\frac{1}{4}$ S 12 B S, and raised a mound of stone, 2 ft base, 1 1/2 ft high, W of w/.
- 55.00 Begin ascent.

East boundary of S 14 S, R 11 E.

Chains

6.000

Bend, bears N. Westerly and S. Easterly.

67.50

Pop, bears N. Westerly and S. Easterly; dironed.

69.30

Dry wash, 10 lbs wide, course S. Easterly;
dironed.

7.000

Pop, bears E. and W.; turned through
dense jehora brush and tasaja cactus.

8.000

Set a granite stone, 24 x 14 x 8 ins, 18 ins in
the ground, for cor of surs 1, 6, 7 and 12,
marked with 5 notches on S and 1 notch
on N. edge; from whichA pole runs, 10 ins diam, bears N. $42^{\circ}15' E$, 59
lbs dist, marked S 14 S R 12 E S 6 B S.A pole runs, 10 ins diam, bears S $10^{\circ} E$, 118 lbs
dist, marked S 14 S R 12 E S 7 B S.A pole runs, 6 ins diam, bears S $73^{\circ}10' N$, 51
lbs dist, marked S 14 S R 11 E S 12 B S.A pole runs, 4 ins diam, bears N. $50^{\circ}35' N$, 101
lbs dist, marked S 14 S R 11 E S 1 B S, and
runs a mound of stone, 2 ft base, $\frac{1}{2}$ ft.

East boundary of S 14 S, R 11 E.

Chain

high, W. of vol.

Sandy, rolling.

Soil, sandy, gravelly and stony; 3rd and 4th cuts.

Timber, pale wood and ironwood; undergrowth, pale wood, grasswood, jowara, chamiza and cacti.

Sant cactus.

Dense undergrowth, 8.00 chs.

North, bet sees 1 and 6.

Open hard land.

Thronght pale wood timber and dense undergrowth.

1.20 Ascend.

1.35 Revinal, course E. S. Easterly.

2.70 Ascend vertical 30 ft.

3.15 Popl.

15.00 Ascend.

East boundary of S 14 S, R 11 E.

6 chains

- 19.00 Begin steep ascent of S. slope spur of
Sweson mountains.
- 26.00 Top of spur, 130 ft above ft of ascent,
bars Easterly and Westerly; also end.
- 30.20 Ravine, 150 ft below top of spur, crossed
S. Westerly.
- 32.00 Round from ravine.
- 33.70 Top of bank; also end.
- 40.00 Set a volcanic stone, $18 \times 10 \times 8$ ins, $1\frac{1}{2}$ ins in
the ground, for $\frac{1}{4}$ sec end, marked $\frac{1}{4}$ on N. ^{face}
from which
A spade hole, 7 ins diam, bars $S 82\frac{3}{4}^{\circ} E$, 40
lbs dist, marked $\frac{1}{4}$ S E B S.
- An iron rod, 6 ins diam, bars $S 59^{\circ} W$, 85
lbs dist, marked $\frac{1}{4}$ S I B S; and raise a
mound of stone, 2 ft base, $1\frac{1}{2}$ ft high, N
of end.
- 41.00 Round, bars N. N. Westerly and S. S. Easterly.
- 77.25 Top of N. slope of mountain, 150 ft above

East boundary of S 14 S. R 11 E.

Chains

 $\frac{1}{4}$ sec cor; disced.

8000 Set a granite stone, $28 \times 8 \times 8$ ins, 21 ins in the ground, foot cor of Sps 13 and 14 S, R 11 and 12 E, marked with 6 notches on each edge; from which

A pole road, 7 ins diam, bears $N 60^{\circ} 10' E$, 43 lts dist, marked S 13 S R 12 E S 31 B S.

A pole road, 4 ins diam, bears $S 64^{\frac{1}{2}} E$, 104 lts dist, marked S 14 S R 12 E S 6 B S.

A pole road, 8 ins diam, bears $S 31^{\frac{1}{2}} W$, 48 lts dist, marked S 14 S R 11 E S 1 B S; no alteration within limit; and raise a mound of stone, 2 ft base, $1\frac{1}{2}$ ft high, top cor. Site impracticable.

Ground, mountainous and rolling.

Soil, gravelly, stony and rocky; 3rd and 4th cuts.

Timber, pole woods and ironwood; undergrowth, pole woods, jibwood and cacti.

East boundary of S 14 S, R 11 E.

Chain

Giant cacti.

Mountains or land covered with dense
undergrowth, 8,000 lbs

March 10, 1903.

 General Description.

This line was over level, gently rolling
and mountainous land. The soil is
mostly sandy and gravelly. Pines
and magnolia and ironwood timber
is found along the line.

S 14 S, R 12 E, is generally level,
covered with undergrowth and cacti.
The westernmost portion of the S 14
is mountainous. There is no running
water in this S 14.

Philip Couzner
U. S. Deputy Surveyor

North boundary of S 14 S, R 16 E

Chains

March 11: At 7²⁵ a.m., I with S set off 3275 ft on the lat arc, 4 4' S on the merid arc, and determined a true meridian with a level at that end of Sps 13 and 14 S, Rs 10 and 11 E, on the 2nd Guide Meridian East, which is a meagre post, marked and witnessed, as described by the surveyor general.

Thence I run

East on a random line, along the N. edge of Sp 14 S, R 11 E, setting traps 4 and saws at intervals of 4000 chs; and at 482.42 chs, intersect E edge of the Sp at the end of Sps 13 and 14 S, R 11 and 12 E, as heretofore described. Thence I run

North boundary of S 14 S, R 11 E

chains

West, bet sees 1 and 36.

Over mountainous land.

Descending through dense undergrowth.

2.50 Box canyon, 1 ch wide, course S. Westerly;
ascend.

4.00 Top, bars N E and S W; descend.

7.95 Road to mine, bars Northwesterly and southerly.

21.00 Round hill, bars about 8 chs S.

41.00 Set a granite stone, 18 x 10 x 8 ins, 1 1/2 ins in
the ground, for 1/4 sec. marked 1/4 on
N face, from whichA pale rock, 7 ins diam, bars N 32° E, 17
chs dist, marked 1/4 S 36 B S.A pale rock, 6 ins diam, bars S 42 3/4° W,
63 chs dist, marked 1/4 S 1 B S; and
near a mound of stone, 2 ft base, 1 1/2 ft
high, N of cor.

42.20 Remains, 1 ch wide, course S. Westerly;

North boundary of S 14 S, R 11 E.

Chain

ascend.

46.00 Top bars N. Easterly and S. Westerly;
descend.

51.00 Gulch, 20 lbs nich, 15 ft deep, course S,
Westerly; begin ascent S. slope of
mountain.

60.00 Top of slope, 150 ft above gulch, descend.

74.00 Post, 11' round and gradually descending
ground.

80.00 Set a granite stone, 18 x 18 x 8 ins, 12 ins in
the ground, for ev of 592. 1, 2, 35 and 36,
marked with 1 notch on E and 3
notches on W edge; from which

A grade rod, 6 ins diam, bears N 68° E, 119
lbs, dist, marked S 13 S R 11 E S 36 B S

A grade rod, 6 ins diam, bears S 50½° E, 54
lbs, dist, marked S 14 S R 11 E S 113 S.

A grade rod, 6 ins diam, bears S 27½° N, 132
lbs, dist, marked S 14 S R 11 E S 2 B S.

North boundary of S 14 S R 11 E

C. L. L.

A pale red, fine grained, lava N 78° W, 122

The dist. marked S 13 S R 11 E - S 35 R 11 E.

Land, mountains and gently rolling

Soil, generally and stony; 4th water.

Similar, pale red, undergrowth, pale
red and earth.

Grain crops.

Mountains or land covered with dense
undergrowth, 8000 lbs.

March 11, 1903.

March 12: At 7^h 40^m in my line & set
off 32° 15' N on the lat. arc; 3° 35' S on
the arc, ^{are; and} determine extent meridian
with the star at the end of arcs 1, 2,
35 and 36.

Planes & run

West, bet arcs 2 and 35.

Over gradually ascending land.

North boundary of S 14 S. R. 11 E.

Chain

Through prairie rock timber and dense
undergrowth. 1

11.30 Orsmond stripoly.

11.80 Enter gulch, course Westerly.

13.40 Around vertical 40 ft.

14.00 Top of S bank of gulch.

4000 Set a granite stone, 18 x 8 x 5 ins, 12 ins in
the ground, for $\frac{1}{4}$ sec¹ cor, marked $\frac{1}{4}$ on
N face, from which

A prairie rock, 4 ins diam, bears N 134° E, 105
the dist, marked $\frac{1}{4}$ S 35 B S

A prairie rock, 4 ins diam, bears S 142° E, 51
the dist, marked $\frac{1}{4}$ S E B S

58.70 Dry wash, to the ridge, course S. Westerly.

8000 Set a granite stone, 18 x 8 x 6 ins, 12 ins in
the ground, for cor of secs 2, 3, 34 and
35 marked with 2 notches on 6 and 4
notches on W edge, from which
A prairie rock, 6 ins diam, bears N 76° E, 55

North boundary of S 14 S R 11 E

Chains

The dist, marked S 13 S R 11 E S 35 B D

A pale rods, 4 ins diam, bears S 52 E, 109

The dist, marked S 14 S R 11 E S 2 B D

A pale rods, 5 ins diam, bears S 23° W, 90

The dist, marked S 14 S R 11 E S 3 B D
A pale rods, 7 ins diam, bears N 82° W, 100

The dist, marked S 13 S R 11 E S 34 B D

and raise a mound of stones 2 ft base,
1½ ft high, W of cor.

Land, gently rolling.

Soil, gravelly and stony; 3rd and 4th
rate.Timber, pale woods and ironwood; un-
dergrowth, pale woods, yohoval and cacti.
Grain cactus.

Dense undergrowth, 80.00 chs.

West, bet secs 3 and 34.

On gradually ascending land.

Through pale woods and ironwood

North boundary of S 14 S, R 11 E.

Chains

- timber and dense undergrowth.
- 10.70 Central dry wash, course Westerly.
- 13.70 Lower wash, course S Westerly.
- 16.50 Lower wash, 20 lbs wide, course N W.
- 20.30 Lower wash, 30 lbs wide, course S. Westerly.
- 40.00 Set a granite stone, 18x8x8 ins, 1 1/2 ins in the ground, for 1/4 section, marked 1/4 on N. face, from which
- A pale rock, 8 ins diam bars S 4 1/2° N, 46 lbs dist, marked 1/4 S 3 B S.
- A pale rock, 8 ins diam bars N 31 3/4° N, 132 lbs dist, marked 1/4 S 3 1/4 B S.
- 62.90 Dry wash, 15 lbs wide, course S. Westerly.
- 80.00 Set a granite stone, 18x8x6 ins, 1 1/2 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 pale rock, 5 ins diam, bars N 82 1/2° E, 235 lbs dist, marked S 13 S 16 N E S 3 1/4 B S.

North boundary of S 14 S R 11 E.

Chain

A pale rock, 10 ms diam, bears S 36° E, 199

The dist, marked S 14 S R 11 E S 3 B S.

A pale rock, 6 ms diam, bears S 43 1/4° W, 114

The dist, marked S 14 S R 11 E S 4 B S.

An ironwood, 4 ms diam, bears N 27° W, 134

The dist, marked S 13 S R 11 E S 3 B S.

Land, gently rolling.

Soil, sandy, gravelly and stony; soil
4th rate.Timber, pale rock and ironwood; un-
dergrowth, pale rock and cacti.

Sunt cactus.

Dense undergrowth, 8000 lbs.

West lot nos 4 and 33.

Very gradually descending land.

Shrub pale rock timber, and dense
undergrowth.

7.85

Dry wash, 10 lbs run, course S. W. to W.

North boundary of S 14 S R 11 E

6 chains
40.00

Set a calcareous stone 18 x 8 x 8 ins, 12 ins
in the ground, for $\frac{1}{4}$ sec on marked $\frac{1}{4}$
on N face, from which

A pale red, 5 ins diam, bears S $34\frac{1}{4}$ W, 97
the dist, marked $\frac{1}{4}$ S 4 B S.

A pale red, 6 ins diam, bears N 51 W, 77
the dist, marked $\frac{1}{4}$ S 33 B S.

8:00 Set a mosquito foot, 3 ft long, 4 ins sq,
with marked stone, 24 ins in the ground,
face of sec 4, 5, 32 and 33 marked

S 13 S S 33 on NE,

R 11 E S 4 on SE,

S 14 S S 5 on SW and

S 32 on N. W face, with 4 notches on E
and 2 notches on W edges, from which

A mosquito, 4 ins diam, bears N 69 E, 298
the dist, marked S 13 S R 11 E S 33 B S.

A pale red, 8 ins diam, bears S 41 E, 499 the
dist, marked S 14 S R 11 E S 4 B S.

North boundary of S 14 S R 11 E.

Chains

A meagrite, 6 ins diam, bears S $38\frac{1}{2}^{\circ}$ N, 117

The dist, marked S 14 S R 11 E S 5 B S

A meagrite, 5 ins diam, bears N $21\frac{3}{4}^{\circ}$ N,

213 The dist, marked S 13 S R 11 E S 32 B S.

Land, gently rolling and level.

Timber, scattering meagrite, pale wood
and ironwood; undergrowth, grassmoss,
meagrite, tsetse and cacti.

Giant cactus.

Dense undergrowth, 8000 lbs
March 12: - at this cor, I set off $3^{\circ} 35' S.$ on the
decl. arc: and at 12^h 5^m E. m. t. I observe the sun
on the meridian; the resulting lat. is $32^{\circ} 15' N.$

West lat sec 5 and 32.

Over level land.

Through dense grassmoss.

33.20 Road, bears N. Westerly and S. Easterly.

33.53 Old road, bears N. Westerly and S. Easterly.

39.87 Soil, bears N. Westerly and S. Easterly;
land dense grassmoss, bears Northwly
and Southwly and into dense mes-

North boundary of S 14 S R 11 E

Chains

gravel and roots undergrowth.

41.00 Set a mosquito post, 3 ft long, 4 ins sq,
with marked stone, 24 ins in the ground,
for $\frac{1}{4}$ sec or marked $\frac{1}{4}$ S 32° or N and
5° or S face; from which

A mosquito, 6 ins diam, bears S 40 $\frac{1}{2}$ ° W, 200
lbs dist, marked $\frac{1}{4}$ S 5° B S.

A mosquito, 4 ins diam, bears N 56 $\frac{1}{2}$ ° W,
96 lbs dist, marked $\frac{1}{4}$ S 32° B S.

40.45 Dry wash, 15 lbs wide, course N. Westerly.

~~41.00~~ Dry wash, 20 lbs wide, course N. Westerly.

44.45 Dry wash, 20 lbs wide, course N. Westerly.

47.30 Dry wash, 20 lbs wide, course N. Westerly.

67.00 Large mosquito and roots, undergrowth,
bears northerly and southerly; water down
grasswood.

73.30 Dry wash, 15 lbs wide, course northerly.

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

North boundary of S 14 S, R 11 E.

Chain

for or of sec 5, 6, 31 and 32, marked

S 13 S S 32 on NE,

R 11 E S 5 on SE,

S 14 S S 6 on SW, and

S 31 on N. W. face, with 5 notches on E
and 1 notch on W edge, from whichA magnetic, 4 ins diam, bears N $4\frac{1}{2}^{\circ}$ E, 229

This dist dist, marked S 13 S R 11 E S 32 B S.

A magnetic, 10 ins diam, bears S 23° E, 597

This dist, marked S 14 S R 11 E S 5 B S.

no other trees within limit, dig pits,

18 x 18 x 12 ins, S W and N W of post, 3 ft

dist, and raise a mound of earth, 4 ft

base, 2 ft high, N of cor.

Ground, level.

Soil, sandy loam, 2nd rate.

Timber, scattering mesquite, under-
growth, grasswood, mesquite, locust,
chamizo and cacti.

North boundary of S 14 S, R 11 E.

Changes

Dress underneath, 8000 chs

West, lit sees 6 and 31.

Over trial land.

Through dense grasswood.

12.43 Band, brass N. Westerly and S. Easterly.

16.60 Band, brass N. Westerly and S. Easterly.

4000 Set a mesquite post, 3 ft long, 4 ins sq,
in the marked stone, 2 1/4 ins in the ground,
for 1/4 sec or marked 1/4 S 31 on A and 6 on
S face, from which

A mesquite, 5 ins diam, bears S 72 1/2° W, 19,
the dist, marked 1/4 S 6 B S.

A mesquite, 8 ins diam, bears N 73 1/4° W, 22,
the dist, marked 1/4 S 31 B S.

72.60 Dry wash, 15 lbs wide, course N. Easterly.

82.42 In ev of S/s 13 and 14 S, Rs 10 and
11 E.

Lined, hnd.

North boundary of T 14 S R 11 E

6 chains

Soil, sandy loam; 2nd cuts.

Timber, scattering mesquite; undergrowth, grasswood, mesquite and broom.

Dense undergrowth, 22.42 chs.

March 12, 1903.

General Description

This line runs over partly rolling, level and mountainous land. The soil is mostly sandy and gravelly. Palo verde, mesquite and ironwood timber is found along the line.

Philip Contzer

W. S. Deputy Surveyor.

for authority of Fred in Correction see
deputy's letter of Feb 11/1904

Boundaries of S 14 S. R. 11 E.

See Subs. T. 13 S. R. 11 E.
for final oaths
Book I.

A P P R O V A L.

Office of the

United States Surveyor-General,

Phoenix, Arizona.

March 8 - 1904

The foregoing field notes of the survey of the East & North boundaries of

T. 14 S., R. 11 E

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

Executed by *Philip Boutzen*

United States Deputy Surveyor, under his contract No. 104, dated Nov. 15 1902, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Frank S. Ingalls

U. S. Surveyor-General.