

E + N. BOUNDARIES
(T 13 S. R 11 E)

CONTRACT 104

PH. CONTZEN
U. S. DEP. SUR

1557

1557

BOOK 1557

4-671

FIELD NOTES
GENERAL LAND OFFICE.

H.

1557

BOOK 1557

Field Notes
Of the survey of the
East and North Boundaries
of
Township No. 13 South
Range No. 11 East
of the
Gila and Salt River Basins and Meridian
In the
Territory of Arizona
As surveyed by
Philip Conzen
N. S. Dwyer Surveyor

Under his contract No. 104
Dated No. 15, 1902

Survey commenced April 26, 1903
Survey completed April 30, 1903.

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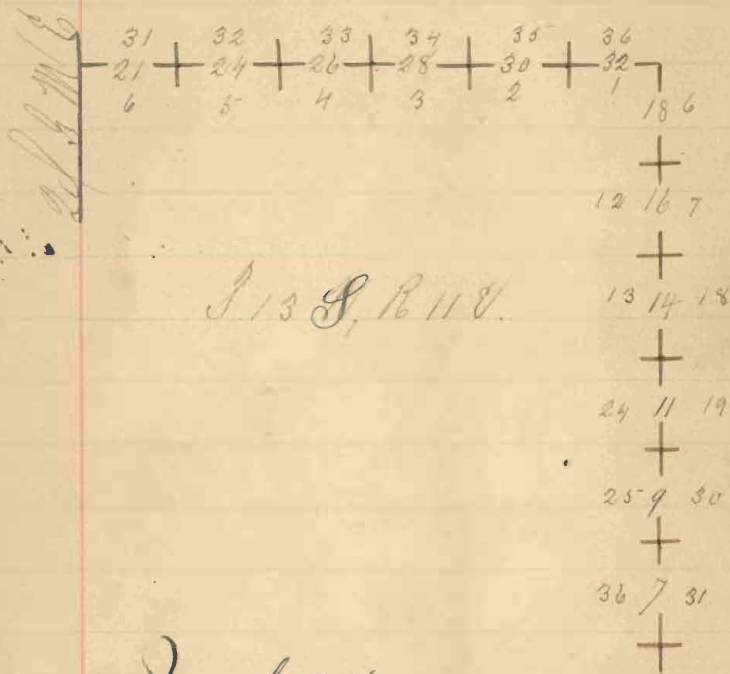
Survey commenced April 22, 1903
Survey completed April 30, 1903

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BOOK 1557

Preliminary Paths in
Book "A" Exts. T. 14 S. R. 11 E

Index



S 13 S, R 11 E.

Index.

East Bdry. T 13 S, R 11 E 7
 North T 13 S R 11 E 21

East boundary of P 13 S, R 11 E.

Chronis

Sunny commenced April 26, 1903, and ex-
 ercised with a young and Sons light mount-
 ain transit, No. 5007, 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 declina-
 tion arcs.

The instrument was examined, tested on
 the true meridian at Phoenix, found
 correct, and was approved by the surveyor
 general for Arizona.

I examined the adjustments of the transit
 and correct the local 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

East boundary of S, 32 R 11 E

Chains

determined by observations on Polaris, & proved as follows:

At the cor of Sps 13 and 14, Rs 11 and 12 E, as heretofore described, latitude $32^{\circ} 15' N$, longitude $111^{\circ} 09' 48'' W$; I set off $32^{\circ} 15' N$ in the lat arc, $13^{\circ} 23' W$ in the decl arc, and at $3^h 30^m$ p.m., I set, determined with the solar or meridian and marked a point thereof, on a stone firmly set in the ground, 5 chs N. of the cor. April 26, 1903

At 2 p.m. at 5th by my watch, which is correct, I observe Polaris at eastern elongation in accordance with Manual of Projections, and mark a point in that line thus determined, on a peg driven in the ground, 5 chs N. of my station

April 27, 1903,

April 27: At $7^h 30^m$ a.m., I lay off

6
 East boundary of $\delta 13$ S, $R 11$ E
 chains

the azimuth of Polaris $1^{\circ} 26'$ to the East, and mark the meridian thus determined, by cutting a small groove in the stone set April 26, on which the meridian falls 0.3 ins east of the marked determined by the solar.

At $8^h 30^m$ on my lat, I set off $32^{\circ} 15'$ on the lat arc, $78^{\circ} 37'$ on that arc, 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 0.4 ins east of the meridian established by the Polaris observation.

The chain apparatus by pm and a no observations, did not give positions for meridians with sufficient accuracy, therefore I concluded that the adjustments of the instrument are satisfactory.

The magnetic bearing of the true meridian

East boundary of S 13 S, R 11 E

6 trees

at 8^h 45^m or more, is $N 13^{\circ} 6' E$; that angle thus determined gives that mag. decl. $13^{\circ} 15' E$.

From the above Sp. cor. S run North, but sees 31 and 36.

Over mountainous land; ascending.

450 Box canyon, 1 ch wide, 30 ft deep, course S. Westerly; ascend.

300 Top of ridge, runs Easterly and Westerly; descend.

400 Set a basalt stone, $18 \times 8 \times 5$ ins, 12 ins in the ground, for $\frac{1}{4}$ sec cor marked $\frac{1}{4}$ on N face; from which

A pale rock, 6 ins diam, bears $S 27^{\circ} \frac{3}{4} E$, 24 the dist, marked $\frac{1}{4}$ S 31 B S.

A pale rock, 6 ins diam, bears $S 39^{\circ} W$, 115 the dist, marked $\frac{1}{4}$ S 36 B S.

4500 Summit, bears N. 5.00 chs dist.

East boundary of T 13 S, R 11 E

chains

- 46.00 Gulch, 80 lbs wide, runs Westerly; began ascent S. slope of mountain.
- 47.00 Road, runs N. Easterly and S. Westerly.
- 50.95 Trail, runs N. Westerly and S. Easterly.
- 52.00 Tent, runs E, about 6.00 lbs dist.
- 55.00 Shaft, runs E, 3.00 lbs dist.
- 69.00 Top of spur, extending S. Westerly; thence ascend along N. W. slope.
- 8.000 This point for s.c. or falls on granite rock in place, 6 x 4 ft, 4 ft above ground, on which
 cut a cross (+) at the exact or point, for
 use of s.c. 25, 30, 31, and 36, with 1 notch
 on S and 5 notches on N sides of cross;
 and raise a mound of stone 3 ft base,
 2 ft high, E of cr. Pits impracticable.
 This cr stands on N W slope of spur,
 500 ft above gulch.
 Country mountainous,

East boundary of S 13 S R 11 E.

Chains

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

Similar, scattering gravel rocks, undergrowth, gravel roads and earth.

Grunt cactus.

Mountainous land, 8000 chs.

North lat ones 25 and 30.

Over mountainous land; ascending.

13.00 Top of E slope of mountain, 200 ft above sea level; top of mountain bears N, 3.00 chs dist; begin steep descent.

3.00 Footy thicket along N slope of ridge.

35.00 Descent.

40.00 Set a granite stone, 18 x 8 x 6 ins, 12 ins in the ground, for $\frac{1}{4}$ sec ev marked $\frac{1}{4}$ on N face; from which

A pale rock, 5 ins diam, bears S $22\frac{1}{4}^{\circ}$ E, 30 chs dist, marked $\frac{1}{4}$ S 30 B B.

East boundary of T. 13 S. R. 11 E

Chain

- A pale red, 4 ins diam, brass N $29\frac{1}{2}^{\circ}$ W,
52 lbs dist, marked $\frac{1}{4}$ S 25 B S.
- 42.00 Post, brass NE and SW, ascnd.
- 46.50 Top of spur, extending Westerly; ascnd.
- 53.20 Post, inter wash course Westerly.
- 56.00 Lower wash and ascnd
- 61.61 Mining monument on line.
- 61.50 Top of spur, extending Westerly.
- 65.30 Descnd.
- 75.25 Dry wash, 10 lbs wide, course N. Westerly;
turned ascnd gradually through heavy
pale red timber.
- 80.00 Set 4 granite stones, 24 x 12 x 12 ins, 18 ins
in the ground, for cor of arcs 19, 24, 25 and
30, marked with 2 notches on S and 4
notches on N. side; from which
- A pale red, 8 ins diam, brass N $74\frac{1}{4}^{\circ}$ E, 73
lbs dist, marked S 13 S R 12 E S 19 B S.
- A pale red, 8 ins diam, brass S 10 E, 97

East boundary of P 13 S, R 11 E.

Chains

This dist, marked S 13 S R 12 E S 30 B S.

A pale woods, 6 ins diam, bears S 31° W, 102

This dist, marked S 13 S R 11 E S 25 B S.

A pale woods, 6 ins diam, bears N $59\frac{1}{2}^{\circ}$ W, 42

This dist, marked S 13 S R 11 E S 24 B S.

Land, mountainous and gently rolling.

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

Timber, pale woods and ironwood; undergrowth, pale woods and cacti.

Sunt cactus.

Mountainous or heavily timbered land.

8000 chs.

April 27: At this cor. I set off $13^{\circ} 38' 11''$ as the decl. arc; and at 12 ⁴⁰ 50m E. dist., observed the sun on the meridian; the resulting lat. is $32^{\circ} 17'$

North, but see 19 and 24.

Over gradually ascending land.

Through heavy pale woods timber and dense undergrowth.

13.55 Dry wash, 15-lhs wide, course N. W. to S. W.

East boundary of S 13 S R 11 E

6 hrs

4.00

Set a granite stone, 18 x 8 x 6 ins, 12 ins
in the ground, for $\frac{1}{4}$ sec on marked $\frac{1}{4}$
on W face, from which
An iron wire, 6 ins diam, bears S 32° E, 146
lbs dist, marked $\frac{1}{4}$ S 19 B S.
A pole wire, 8 ins diam, bears N 51 $\frac{1}{2}$ W,
165 lbs dist, marked $\frac{1}{4}$ S 24 B S.

47.15 Dry wash, 20 lbs wide, course Westerly.

47.40 Begin ascent S. slope of mountain

61.60 Top, bears Easterly and Westerly.

65.10 Descend.

78.40 Foot.

8.00

Set a granite stone, 20 x 12 x 8 ins, 14 ins
in the ground, for use of sec 13, 18, 19
and 24, marked with 3 notches on S
and N edges; from which
An iron wire, 11 ins diam bears N 32° E,
76 lbs dist, marked S 13 S R 12 E S 18 B S.
An iron wire, 10 ins diam, bears S 70 $\frac{1}{4}$ E,

East boundary of S 13 S R 11 E

chains

39 lbs dist, marked S 13 S R 12 E S 19 B S

A pale verde, 6 ino chain, bears S 36° W, 74

lbs dist, marked S 13 S R 11 E S 24 B S

A pale verde, 6 ino chain, bears N 14½° W, 24

lbs dist, marked S 13 S R 11 E S 13 B S

Land gently rolling and mountainous
Soil, sandy, gravelly and stony; 3rd
and 4th rates.Timber, pale verde, mesquite and iron-
wood; undergrowth, pale verde, mesquite
and cacti.

Grunt cactus.

Mountainous or brainly timbered land,
8000 lbs.

April 27, 1903.

April 28: At 7^h 00^m a.m. l.m.t. I set off
32° 18' N on the lat arc, 13° 55' N on the
decl arc, and determined a true meridian

East boundary of S 13 S, R 11 E

Chains

with the solar at the eve of surs 13, 18, 19
and 24.

Sliver of run

North bet surs 13 and 18.

Over mountainous land, ascending.

9.20 Top, bears easterly and westerly; descend.

13.70 Foot, ascend.

17.50 Top of spur, extending N. Easterly;
ascend.

27.50 Foot, thence ascend gradually through
pale over timber and dense undergrowth.

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

39.60 Set a granite stone, 18 x 8 x 8 ins, 12 ins in
the ground, for witness ev to $\frac{1}{4}$ sur ev
marked $W \frac{1}{4}$, $\frac{1}{4}$ ev N face, from which
a pale over, 8 ins diam, bears $S 88^{\circ} \frac{1}{2} E$, 8
lbs dist, marked $\frac{1}{4} S 18 B S$.

A pale over, 6 ins diam, bears $S 89^{\circ} \frac{1}{2} N$,
28 lbs dist, marked $W \frac{1}{4} S 18 B S$.

45.00 60 ft in wash 25 lbs wide, course N N

East boundary of T 13 S, R 11 E.

Chains

50.50 Sand wash, 25 lbs wide, course N. E.

59.45 Sand wash, 30 lbs wide, course N. W.

70.00 Dry wash 40 lbs wide, course N. W.

8000 Set a granite stone, 20 x 8 x 6 ins, 14 ins in the ground, for cor of secs 7, 12, 13 and 18, marked with 4 notches on S and 2 notches on N. side, from which

A pale red, 10 ins diam, bears N $61\frac{1}{4}^{\circ}$ E, 80 lbs dist, marked S 13 S R 12 E S 7 B S.

A pale red, 10 ins diam, bears S $37\frac{1}{4}^{\circ}$ E, 175 lbs dist, marked S 13 S R 12 E S 18 B S.

A pale red, 8 ins diam, bears S $56\frac{1}{2}^{\circ}$ W, 62 lbs dist, marked S 13 S R 11 E S 13 B S.

A pale red, 8 ins diam, bears N $33\frac{1}{2}^{\circ}$ W, 157 lbs dist, marked S 13 S R 11 E S 12 B S.

Ground, mountainous and greatly rolling.

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

Timber, pale red, ironwood and mesquite.

East boundary of S 13 S, R 11 E

Chain

undergrowth, pale red, mosquito, tsetse
and ants.

Bunt cactus.

Mountains or land covered with dense
undergrowth, 8000 ft.

North, bet. sec 7 and 12.

Dirt gradually becoming gravel.

Through heavy pale red timber and
dense undergrowth.

- 360 Dry wash, 40 lbs wide, course N. Westerly.
- 31.60 Dry wash, 30 lbs wide, course N. Westerly.
- 4000 Set a granite stone, 18 x 8 x 6 ins, 12 ins in
the ground, set $\frac{1}{4}$ sec or marked $\frac{1}{4}$ on
W. face, from which
- A pale red, 7 ins diam, bears $S 88^{\circ} E$, 83
lbs dist, marked $\frac{1}{4}$ S 7 B.S.
- A pale red, 10 ins diam, bears $S 72^{\circ} W$, 89
lbs dist, marked $\frac{1}{4}$ S 12 B.S.

East boundary of S 13 S R 11 E

Chains

58.55 Dry wash, 40 lbs wide, course N. Westerly.

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

77.57 Road from Swenson to Poinson's Camp, bears
Easterly and Westerly.79.80 Set a basalt stone, 18 x 8 x 6 ins, 12 ins in the
ground, for witness on to cor of secs 1, 6, 7
and 12, marked W.C. on N.E. face, with 5
notches on S and 1 notch on N edge; from
whichA pralo rock, 8 ins diam, bears N. $66\frac{1}{4}^{\circ}$ E, 132 lbs
dist, marked W.C. S 13 S R 12 E S 6 B S.A pralo rock, 8 ins diam, bears S $46\frac{1}{2}^{\circ}$ E, 145 lbs
dist, marked W.C. S 13 S R 12 E S 7 B S.A pralo rock, 8 ins diam, bears S $47\frac{1}{2}^{\circ}$ W, 65 lbs
dist, marked W.C. S 13 S R 11 E S 12 B S.An iron wood, 15 ins diam, bears N. $44\frac{1}{2}^{\circ}$ W, 64
lbs dist, marked W.C. S 13 S R 11 E S 1 B S.8000 The point for sec cor falls in dry wash,
50 lbs wide, course N. Westerly.

East boundary of S 13 S R 11 E
 Chain

Land, level and gently rolling.

Soil, sandy and gravelly; 3rd vert.

Timber, pale oak, ironwood and mesquite,
 undergrowth, pale oak, mesquite, trisetum,
 grasswood and cacti.

Grunt cactus.

Heavily timbered or land covered with
 dense undergrowth, 8000 lbs.

North, bet sec 1 and 6.

From cor point in wash.

Over level land.

Through pale oak and ironwood timber
 and dense undergrowth.

- 1205 Dry wash, 25 lbs wide, course N. Westerly.
 22.25 Dry wash, 20 lbs wide, course N. Westerly.
 33.00 Dry wash, 60 lbs wide, course N. Westerly.
 35.60 Dry wash, 20 lbs wide, course N. Westerly.
 4000 Set a malpais stone, 18 x 8 x 6 ins, 12 ins

East boundary of S 13 S, R 11 E

Chains

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

A pale rock, 7 ins diam, bears $S 86^{\circ} E$, 38 lbs
dist, marked $\frac{1}{4}$ S 6 B S.

A pale rock, 10 lbs diam, bears $N 62^{\circ} W$, 52 lbs
dist, marked $\frac{1}{4}$ S 1 B S.

45.20 Bond, bears N. Wistery and S. Easterly.

58.42 Bond, bears N. Wistery and S. Easterly.

79.10 Dry wash, 1.00 ch' wide, course S. Wistery.

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

A pale rock, 6 ins diam, bears $N 34\frac{1}{2}^{\circ} E$, 21
lbs dist, marked S 12 S R 12 E S 31 B S.

An iron rod, 8 ins diam, bears $S 55\frac{1}{4}^{\circ} E$, 61
lbs dist, marked S 13 S R 12 E S 6 B S.

A pale rock, 8 ins diam, bears $S 57\frac{1}{2}^{\circ} W$, 32
lbs dist, marked S 13 S R 11 E S 1 B S.

East boundary of S 13 S R 11 E
Chain

An ironwood, 6 ins diam, bears N. $15\frac{1}{2}^{\circ}$ W, 55
the dist. marked S 12 S R 11 E S 36 B S
lands, gently rolling and level.

Soil, sandy and gravelly; 3rd water.

Timber, palo verde, ironwood and mes-
quite, undergrowth, palo verde, grass-
wood, mesquite, total and cacti.

Sweet cactus.

Dense undergrowth, 8000 lbs.

April 23, 1903.

General Description

This line runs over mountainous, gently
rolling and level lands. The soil is sandy,
gravelly, stony and rocky. There is consid-
erable palo verde, ironwood and mesquite tim-
ber along the line. S 13 S R 12 E, is mostly
mountains.

Philip Coutzen

W. S. Deputy Surveyor.

North boundary of P 13 S R. 11 E.

Chains

April 29: At 6:30^{am}, I met P and set off
33° 21' N on the lat arc, 14° 14' W on the decl
arc, and determined a true meridian with
the solar at the cor of Sps 12 and 13 S,
Rs 11 and 12 E.

Plumer & Ann

Went on a random line, along the N. side of
P 13 S, R 11 E, setting temp $\frac{1}{4}$ sec and sec
cres at intervals of 4000 chs, and at 48200
chs intersect the 2nd Guide Meridian E,
at the cor of Sps 12 and 13 S, Rs 10 and
11 E, which is a magnetic post, marked and
introduced as described by the surveyor gen-
eral. Plumer & Ann

East lat arcs 6 and 31.

Over level land.

Through dense grasswood.

366 Bond, bars N. and S.

4200 Set an iron rod post, 3 ft long, 4 ins sq,

North boundary of S 13 S R 11 E.

Chains

with marked stone, 24 ins in the ground,
for $\frac{1}{4}$ sec on, marked $\frac{1}{4}$ S 31 on N and 6 on
S face, from which

A mesquite, 4 ins diam, bears S $30\frac{1}{4}^{\circ}$ E, 233
lbs dist, marked $\frac{1}{4}$ S 6 B S.

A mesquite, 4 ins diam, bears N $34\frac{1}{2}^{\circ}$ W,
105 lbs dist, marked $\frac{1}{4}$ S 31 B S.

53.00 Soil, bears Northerly and Southerly.

82 00 52.00 Set an ironrod post, 3 ft long, 4 ins sq
with marked stone, 24 ins in the ground,
for cor of sec 5, 6, 31 and 32, marked
S 12 S S 32 on N E,

R 11 E S 5 on S E,

S 13 S 86 on S W and

S 31 on N W face, with 5 notches on E,
and 1 notch on N face, from which

A ironrod, 6 ins diam, bears N. $18^{\circ} 53' 13''$ E
dist, marked S 12 S R 11 E S 32 B S.

A ironrod, 5 ins diam, bears S $59\frac{3}{4}^{\circ}$ E, 696

North boundary of S 13 S R 11 E S 5 B S

BOOK 1557

Chronis

The dist, marked S 13 S R 11 E S 5 B S.

A mosquito, 6 ins diam, bears N. $12\frac{1}{2}^{\circ}$ W, 358

The dist, marked S 12 S R 11 E S 31 B S; no

other tree within limit, dig pit, 18 x 18 x 12

ins, S W of post, 5 $\frac{1}{2}$ ft dist, and raise a

mound of earth 4 ft base, 2 ft high, W

of ev.

Bound, level, ...

Soil, sandy loam; end rock.

Timber, scattering mosquito and iron-wood; undergrowth, mosquito and tree.

Dense undergrowth, 82.00 obs.

April 29, 1903.

April 30: At 6^h 40^m a.m., l.m.t., B set off
 $32^{\circ} 21'$ from the lat arc; $140^{\circ} 31'$ on the
 decl arc. and determined a true meridian
 with the solar at the ev of secs 5, 6, 31
 and 32.

North boundary of S 13 S R 11 E

Chains

Shiner Run

East, bet acres 5 and 32.

Over hml land.

Through dense undergrowth.

29.61 Dry wash, 10 lbs wide, course N. Westerly.

4000 Set a magnite post, 3 ft long, 4 ins sq,
with marked stone, 24 ins in the ground,
for $\frac{1}{4}$ sec in marked $\frac{1}{4}$ S 32 on N. and 5
on S. face; from whichA magnite, 3 ins diam, bears N. $20\frac{1}{2}^{\circ}$ E, 149
lbs dist, marked $\frac{1}{4}$ S 32 B. P.An ironwood, 10 ins diam, bears S 62° E,
110 lbs dist, marked $\frac{1}{4}$ S 5 B. P.

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

60.75 Dry wash, 25 lbs wide, course N. Westerly.

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

75.07 Road, bears N. N. and S. E.

8200 Set an ironwood post, 3 ft long, 4 ins sq,
with marked stone, 24 ins in the ground

North boundary of A 13 S R 11 E

Chains

for ev of secs 4, 5, 32 and 33, marked

S 12 S S 33 on NE,

R 11 E S 4 on SE,

S 13 S S 5 on SW and

S 32 on N. W. face; with 4 notches on E
and 2 notches on W. edge; from which
An ironwood, 9 ins diam, bears $N 26\frac{1}{4}^{\circ} E$, 64
lbs dist, marked S 12 S R 11 E S 33 B S.

A mesquite, 6 ins diam, bears $S 18^{\circ} E$, 97
lbs dist, marked S 13 S R 11 E S 4 B S.

A palo verde, 10 ins diam, bears $S 80\frac{1}{4}^{\circ} W$, 98
lbs dist, marked S 13 S R 11 E S 5 B S.

An ironwood, 8 ins diam, bears $N. 22\frac{1}{4}^{\circ} W$,
230 lbs dist, marked S 12 S R 11 E S 32 B S.

Land, gently rolling and level.

Soil, sandy and gravelly; 3rd rate.

Timber, palo verde, ironwood and mes-
quite; undergrowth, grasswood, palo
verde and cacti.

North boundary of S 13 S. R. 11 E
chains

Grant cactus.

Dense undergrowth, 8000 chs.

East, bet sees 4 and 33.

Over gently rolling land.

Through dense undergrowth.

4.90 Dry wash, 10 lbs wide, course N. Westerly.

36.60 Dry wash, 10 lbs wide, course N. Westerly

4000 Set a mesquite 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 33 on N and
4 on S face, from which

An ironwood, 18 ins diam, bears N 25 $\frac{1}{2}$ ° E,
174 lbs dist, marked $\frac{1}{4}$ S 33 B S.

A mesquite, 9 ins diam, bears S 9 $\frac{1}{4}$ ° W,
42 lbs dist, marked $\frac{1}{4}$ S 4 B S.

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

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

75.45 Dry wash 10 lbs wide, course N. Westerly.

North boundary of S 13 S R 11 E.

Chains

3000

Set a mesquite post, 3 ft long, 4 ins dia,
with marked stem, 24 ins in the ground,
for corner 3, 4, 33 and 34, marked

S 12 S S 34 on NW

R 11 E S 3 on S E,

^{7 1/2}

S 4 on S W and

S 33 on N. W corner, with 3 notches on E
and W edges, from which

An ironwood, 9 ins diam, bears N. 32° E, 82
lbs dist, marked S 12 S R 11 E S 34 B S.

An ironwood, 6 ins diam, bears S 71 1/2° E, 140
lbs dist, marked S 13 S R 11 E S 3 B S.

An ironwood, 4 ins diam, bears S 33 1/4° W,
35 lbs dist, marked S 13 S R 11 E S 4 B S.

A pale red, 8 ins diam, bears N. 25 1/4° W,
185 lbs dist, marked S 12 S R 11 E S 33 B S.

Land, gently rolling.

Soil, sandy and gravelly; 3rd rate.

Timber, pale red, ironwood and mes-

North boundary of P 13 S R 11 E
Chain

gently undergrowth, pale woods, grass-
wood and cacti.

Small cacti.

Dense undergrowth, 8000 lbs.

April 30: At this cor. set off $4855'$ on
the decl. arc. and at $124'$ on $90'$ m. t., observing
the sun on the meridian; resulting lat. is $32^{\circ} 21'$

East, bet sec 3 and 34.

Over gently rolling land.

Through dense undergrowth.

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

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

4000 Set an ironwood post, 3 ft long, 4 ins sq

with marked stone, 24 ins in the ground,
for $\frac{1}{4}$ sec cor marked $\frac{1}{4}$ S 34 on N end
3 on S face, from which

A pale woods, 4 ins diam, bears S $10\frac{1}{2}^{\circ}$ E,
20 lbs dist, marked $\frac{1}{4}$ S 3 B S.

A pale woods, 9 ins diam, bears N. 2° W,
41 lbs dist, marked $\frac{1}{4}$ S 34 B S.

54.15 Dry wash, 30 lbs wide, course N. Westerly.

North boundary of S 13 S, R 11 E

6 chains

58.60

Road, bears N. Easterly and S. Westerly.

8.000

Set a mosquito post, 3 ft long, 4 ins sq,
with marked stone, 24 ins in the ground,
for cor of sec 2, 3, 34 and 35, marked
S 12 S S 35 on NE,

R 11 E S 2 on SE,

S 13 S S 3 on SW and

S 34 on N W face, with 2 notches on E
and 4 notches on N. edge; from which

A mosquito, 6 ins chain, bears N. $47^{\circ} E$, 179
lbs dist, marked S 12 S R 11 E S 35 B S.

An ironwood, 16 ins chain, bears S $13^{\frac{3}{4}} E$,
123 lbs dist, marked S 13 S R 11 E S 2 B S.

An ironwood, 12 ins chain, bears S $57^{\circ} N$, 78
lbs dist, marked S 13 S R 11 E S 3 B S.

A mosquito, 6 ins chain, bears N. $25^{\frac{1}{2}} N$, 139
lbs dist, marked S 12 S R 11 E S 34 B S.

Land, gently rolling.

Soil, sandy and gravelly; 3rd rate.

North boundary of S 13 S R 11 E

Chain

Timber, pale oak, ironwood and mesquite; undergrowth, pale oak, grasswood and cacti.

Grain cactus.

Dense undergrowth, see chs.

East, bet sres 2 and 35.

Over gently rolling land.

Shrubby dense undergrowth.

3.95 Dry wash, 10 lbs wide, course N. Westerly.

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

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

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

40.00 Set an ironwood post, 3 ft long, 4 ins sq, with marked stem, 24 ins in the ground, for $\frac{1}{4}$ sec or marked $\frac{1}{4}$ S 35 on N. end & on S face, from which

An ironwood, 12 ins diam, bears S $25\frac{3}{4}$ W, 95 lbs dist, marked $\frac{1}{4}$ S & B S.

North boundary of S 13 T, R 11 E

Chains

- An ironwood, 10 ins diam, bears N $19\frac{1}{2}^{\circ}$ W,
89 lbs dist, marked $\frac{1}{4}$ S 35 B S.
- 63.57 Road, bears N. Easterly and S. Westerly.
- 77.05 Dry wash, 20 lbs wide, course N. Westerly.
- 80.00 Set a malpais stone, $24 \times 12 \times 8$ ins, 12 ins
in the ground, for cor of sec 1, 2, 35 and
36, marked with 1 notch on E. and 5
notches on W. edge; from which
- A pale rock, 8 ins diam, bears N. $35\frac{1}{2}^{\circ}$ E, 170
lbs dist, marked S 12 S R 11 E S 36 B S.
- A pale rock, 9 ins diam, bears S $12\frac{1}{2}^{\circ}$ E, 94
lbs dist, marked S 13 S R 11 E S 1 B S.
- A pale rock, 6 ins diam, bears S 54° W, 26
lbs dist, marked S 13 S R 11 E S. 2 13 S.
- A pale rock, 9 ins diam, bears N. $36\frac{3}{4}^{\circ}$ W, 213
lbs dist, marked S 12 S R 11 E S 35 B S.
- Ground, gently rolling.
Soil, sandy and gravelly; sub water.
Timber, pale rock, ironwood and

North boundary of S 13 S, R 11 E

6 chains

mesquite, undergrowth, grasswood, pale
sage and cacti.

Prickly cactus.

Dense undergrowth, 8000 chs.

East, bet sec 1 and 36.

Over gently rolling land.

Through dense undergrowth.

25.40 Dry wash, 25 lbs wick, course N. Westerly.

40.00 Set a malpais stone, 16 x 8 x 6 ins, 12
ins in the ground,
for $\frac{1}{4}$ sec on marked $\frac{1}{4}$ on N face; from
which

A pale wood, 9 ins diam, bears S 58° E, 37
lbs dist, marked $\frac{1}{4}$ S 1 B S.

An ironwood, 7 ins diam, bears N 26° W,
147 lbs dist, marked $\frac{1}{4}$ S 36 B S.

40.06 Road, bears Northwly and Southwly.

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

North boundary of S 13 S, R 11 E

Chain

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

72.40 Dry wash, 1 ch wide, course N. Westerly.

75.20 Dry wash, 75 lbs wide, course N. Westerly.

8000 Corner of Sps 12 and 13 S, Rs 11 and 12 E.

Land, gently rolling.

Soil, sandy and gravelly; 3rd rate.

Timber, palo verde, ironwood and mesquite; undergrowth, grassweed, palo verde, and cacti.

Saint cactus.

Dense undergrowth, 8000 chs.

April 30, 1903.

General Description.

This line runs over gently rolling land, through palo verde, ironwood and mesquite timber. The soil is

North boundary of S 13 S. R. 11 E.

6 miles

smooth and generally, and north. S 13 S,
R 11 E, is mostly level, the extreme
southern portion being mountainous.

Philip Coutzer
U. S. Deputy Surveyor.

Summary of P 13 S. R. 11 E.

BOUNDARIES OF T. 13 S. R. 11 E.

LATITUDES, DEPARTURES & CLOSING ERRORS

LINE DESIGNATED	TRUE BEARING	DISTANCE CHS.	LATITUDES		DEPARTURES	
			N	S	E	W
SOUTH BOUNDARY	WEST	482.42	---	---	---	482.42
GUIDE MERIDIAN	NORTH	480.00	480.00	---	---	---
NORTH BOUNDARY	EAST	482.00	---	---	482.00	---
EAST BOUNDARY	SOUTH	480.00	---	480.00	---	---
CONVERGENCY	---	---	---	---	.46	---
TOTALS	---	---	480.00	480.00	482.46	482.42
ERROR IN LAT	---	---	480.00	---	482.42	---
	---	---	0.00	ERROR IN DEP.	0.46	---

BOOK 1557

See Subs. T13 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 the Gila and Salt River Base and Me-
ridian, in the Territory of Arizona.

Executed By *Philip Coutzen**Deputy*

United States 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 sur-

veys they describe, are hereby approved.

Frank A. Ingalls

U. S. Surveyor-General.