

1585

1585

BOOK 1585

4-671

FIELD NOTES
GENERAL LAND OFFICE.

1585

BOOK 1585

Field Notes
Of the survey of the
East and North Boundaries
of
Township No. 24 South
Range No. 28 East
of the
Gila and Salt River Basins and Maricopa
in the
Territory of Arizona
As surveyed by

Philip Cortzen
U. S. Deputy Surveyor

Under his contract No. 93
Dated April 28, 1902.

Survey commenced June 7, 1902
Survey completed June 9, 1902

Preliminary Oaths of Assistants.

We, ... *C. R. Barthelemy* ...
 and ... *John M. Trayer* ...
 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 ... *North and East*
boundaries... and subdivisions
lines of T. 24 S. R. 28 E

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

... *C. R. Barthelemy* ... Chainman.
 ... *John M. Trayer* ... Chainman.
 ... Chainman.
 ... Chainman.

Sworn and subscribed before me, this ... *7th* ...
 day of ... *June* ... 190 ?

... *Philip Contzen*
 Notary Public.
 U. S. Dep. Sur
 No notary available

[SEAL.]

We, Arnold Peralta

Frank C. Howard and Andrew G. Aiken

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 North 1/4 of East boundaries and subdivisional lines of T 24 S. R 28 E

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

Arnold Peralta Flagman.

Frank C. Howard Axeman.

Andrew G. Aiken Axeman.

Axeman.

Subscribed and sworn to before me this 7th

day of June 1902

Philip Conner Notary Public

U. S. Deputy Surveyor

No notary available

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P 24 S, R 28 E

North Entry Page 8
East " " 20.

North boundary of P 24 S, R 28 E.
Chain

Survey commenced June 7, 1902,
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.

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

I re-examine the adjustments of the transit
and correct the level and collimation
errors.

I begin at the cor of Tps 23 and 24
S, R's 27 and 28 E, which is a decayed
stake with marks obliterated. I
destroy all traces of the old corner

North boundary of Sec 1, B28E - Continued
 Chains

and reestablish it at the same point as follows:

Set a granite stone $18 \times 8 \times 6$ ins, 12 ins in the ground, marked with 6 notches on each edge; dig pits $24 \times 24 \times 12$ ins on each line, N. E. and N. ft and S of stone 8 ft dist, and raise a mound of earth 5 ft base, $2\frac{1}{2}$ ft high S of ev.

In order to test the solar apparatus by comparing the results of observations on the sun, made during a.m. and p.m. hours, with a true meridian determined by observations on Polaris, proceed as follows:

At $3^h 50^m$ p.m., local mean time, set off $31^{\circ} 28'$ on the lat. arc, $22^{\circ} 43' N$ in the decl arc and mark the true meridian thus determined.

North boundary of P 24 S, R 28 E - Continued
Chains

with the solar, by a cross on a stone
firmly set in the ground, 5 chs N
of the instrument. June 7, 1902
At 2^h 20^m a.m. I set & observed
Polaris at eastern elongation, in ac-
cordance with instructions in the
manual, and mark the line thus
determined, by a tack driven in a
wooden plug set in the ground, 5
chs North of my station.

June 8, 1902.

June 8. At 6 a.m. I lay off the
azimuth of Polaris $1^{\circ}25'$ to the West
and mark the true meridian thus
determined, by cutting a small groove
in the stone set last evening, in
which the true meridian falls $.25$ chs
East of the mark determined by the

North Summary of P. 24 S. Res. C - continued
 Chorus

solar.

At 7^h 30^m a.m. I set off $31^{\circ} 23'$ on the lat. arc, $22^{\circ} 43' 9''$ on the decl. arc and mark the true meridian determined with the solar by a cross on the stars already set 5 Ch. N. of my station. This mark falls .26 ins East of the true meridian established by the Polaris observation.

The solar apparatus by p.m. and a.m. observations defines positions for true meridians with sufficient accuracy. Therefore I conclude that the adjustments of the instrument are satisfactory.

The magnetic bearing of the true meridian at 7^h 30^m a.m. is $12^{\circ} 17'$ East, the angle thus determined reduced by the table page 109 gives the mean

North boundary of S 24 S, R 23 E - Continued
Chains

mag. decl $11^{\circ} 14'$

From the Sp cor above described &
run

East... bet sres 6 and 31

Over forest land

Through dense tree-topped undergrowth

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

34.00 Cross dense undergrowth, bears N. N.
Easterly and S. S. Westerly.

39.56 Set a quartzite stone $20 \times 12 \times 10$ ins
 14 ins in the ground, fast to sres cor,
marked $\frac{1}{4}$ 31 on N and 6 on S face,
dig pits $18 \times 18 \times 12$ ins, E and W of
stone, 3 ft dist, and raise or mound
of earth $3\frac{1}{2}$ ft base, $1\frac{1}{2}$ ft high, N
of cor

54.53 Road, bears N. Easterly and S. Westerly

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

North boundary of P 24 S R 28 E - continued
Chain

71.00 Enter dense undergrowth, bars

N. Easterly and S. Westerly

79.56 Set a granite stone 24 x 16 x 12 ins, 16
ins in the ground, for cor of sec
5, 6, 31 and 32, marked with 5 notches
on E, and 1 notch on W. ridge. dig
pits 18 x 18 x 12 ins in each sec 5 &
ft dist, and raise a mound of earth
4 ft base, 2 ft high, W of cor.

Level, level.

Soil sandy loam, 1st rate.

No timber, undergrowth, *tesotilla*.

Dense undergrowth, 42.56 chs.

Exit bet sec 5 and 32.

Over nearly level land

Through dense *tesotilla* and *mosquito*
undergrowth.

1.00 Barrio cabin, bars N. about 40 chs.

North boundary of S 24 S. R 28 E - continued
 Chains

- 8.00 Croter's cabin, bears N. about 40 chs.
- 33.25 Road, bears N. Easterly and S. Westerly
- 35.73 Middle of single track of the El Paso
 and S. Western railroad, under bridge,
 bears N $25\frac{1}{2}^{\circ}$ E and S $25\frac{1}{2}^{\circ}$ W.
- 37.15 Dry wash, 30 chs wide, course S. Westerly
- 37.35 Pilgrimage line, bears N. Easterly
 and S. Westerly
- 40.00 Set a granite stone 18x10x8 ins, 12
 ins in the ground, for $\frac{1}{4}$ sec cor,
 marked $\frac{1}{4}$ sec on N. and 5 on S. face
 dig pits 18x18x12 ins, E and W of
 stone, 3 ft dist, and raise a mound
 of earth, 3 $\frac{1}{2}$ ft base, 1 $\frac{1}{2}$ ft high, N.
 of cor.
- 47.40 Road, bears N. Easterly and S. Westerly
- 55.00 Grass dense undergrowth bears N.
 Easterly and S. Westerly
- 80.00 The point for sec cor falls in

North boundary of S 24 S, R 28 E - continued
 Chassis

dry wash, 15 lbs wide, course W. S.
 Westerty.

82.00 Set a quartzite stone 20x12x12 ins, 14
 ins in the ground, for witness cor
 to cor of sres 4, 5, 32 and 33, marked
 W.C. with 4 notches on E and 2
 notches on W edges. dig pits
 18x18x12 ins in each sre, 5 1/2 ft dia,
 and raise a mound of earth 3 1/2 ft
 high, 1 1/2 ft high, W of cor.

Over level

Soil, sandy loam, 1st and 2nd water
 No timber, undergrowth, brodiaea
 and mosquito

Dense undergrowth, 55.00 ch

East bet sres 4 and 33. From cor
 Over level land

2.00 Witness cor

North boundary of S 34 S R 28 E - continued
Chains

- 3.50 Enter dense mangrove undergrowth
bars N. Easterly and S. Westerly
- 14.00 Top of low stony ridge, bars N. Easterly
and S. Westerly
- 18.00 Barred dense undergrowth bars N.
Westerly and S. Easterly
- 37.00 House, bars 5 chs S.
- 40.00 Set a granite stone $18 \times 8 \times 5$ ins, 12
ins in the ground, for $\frac{1}{4}$ sec cor,
marked $\frac{1}{4}$ 33 on N and 4 on S. face,
dig pits $18 \times 18 \times 12$ ins, E and W of
stone, 3 ft dist and raise a mound
of stone $5 \frac{1}{2}$ ft base, $1 \frac{1}{2}$ ft high, N.
of cor.
- 43.00 Enter dense Sarcotum, bars Northwly
and Southwly
- 54.00 Edge Sarcotum, bars Northwly and
Southwly.
- 66.00 Enter dense *Isolilla* and grasswood

North boundary of P 24 S, R 28 E - Continued
Chain

runs N. Westerly and S. Easterly.

8.000 Set a pine post 3 ft long, 3 ins sq
with marked stone, 24 ins in the
ground, for cor of secs 3, 4, 33 and
34 marked.

P 23 S. S. 34 on N. E.

R 28 E. S. 3 on S. E.

P 24 S. S. 4 on S. W. and

S. 33 on N. W. faces, with 3 notches
on E. and W. edges; dig pits 18x18x12
ins in each sec, 5 1/2 ft dist, and raise
a mound of earth 4 ft base, 15 ft
high, W. of cor.

Land level and gently rolling
Soil, sandy loam and gravelly,
1st, 2nd and 3rd rate.

No timber, undergrowth, tree lla
sage, mesquite and grasswood
Dense undergrowth, 39 50
4222 ch

North boundary of Sec 24 S, R 28 E - Cuntinued
Chains

Coast bet sres 3 and 34.

Over gently rolling land

Through dense sage and grasswood.

4.000

Set a pine post 3 ft long, 3 ins sq
with mark of stone, 24 ins in the
ground for $\frac{1}{4}$ sec cor, marked $\frac{1}{4}$ S 34
on N and S 3 on S face, dig pits
18 x 18 x 12 ins, E and W of post, 3 ft
dist, and raise a mound of earth
3 $\frac{1}{2}$ ft base, 1 $\frac{1}{2}$ ft high, N. of cor.

5.000

Set a granite stone 18 x 12 x 8 ins, 12
ins in the ground, for cor of sres
2, 3, 34 and 35 marked with 2 notches
on E and 4 notches on W side
dig pits 18 x 18 x 12 ins, in each sec
5 $\frac{1}{2}$ ft dist, and raise a mound of
earth 4 ft base, 2 ft high, N of cor
Land, gently rolling and level
Soil, sandy and gravelly, 2nd mod

North boundary of T 24 S, R 28 E - continued
 Chassis

Bed/riate

No timber, undergrowth, sage, frisolilla,
 grasswood and Spanish bayonet.
 Dunes undergrowth, 8000 ch.

East bet sres 2 and 35.

Very gently rolling land

Through dunes sage and grasswood.

4 0.00 Set a granite stone 18 x 12 x 8 ins, 12
 ins in the ground, for $\frac{1}{4}$ sec cor.
 marked $\frac{1}{4}$ 35 on N and 2 on S faces,
 and raise a mound of stone 2 ft
 base $1\frac{1}{2}$ ft high, N of cor. 1st
 impracticable.

49.60 Dry wash, 15 lbs wide, course S.
 Westerly.

49.85 Rocky gulch, 15 lbs wide, course
 S. Westerly

49.50 Rocky gulch, 15 lbs wide, course,

North boundary of S 24 S, R 28 E - continued
Chains

S. Westerly.

8.00 Set a granite stone 18x10x8 ins, 12
ins in the ground, for cor of secs
1, 2, 35 and 36, marked with 1 notch
on East & 5 notches on W. edge, and
raise a mound of stone 2 ft base, 1 1/2
ft high, W. of cor. Sets impracticable.
Land gently rolling and level
Soil, sandy, gravelly and stony; 2nd,
3rd and 4th rates

No timber; undergrowth, sage, mesquite
and grasswood

Dense undergrowth, 8.00 chs.

East bet secs 1 and 36.

Over mountainous land.

Ascending toward Pecosillo moun-
tains

Through dense mesquite undergrowth

North boundary of S 24 S, R 28 E - Continued
 Chains

- 1.15- Rocky gulch, 15 lbs wide, course
 N. Westerly
- 6.50 Rocky gulch, 15 lbs wide, course S.
 Westerly
- 35.00 Prairie dense undergrowth course
 N. Easterly and S. Westerly.
- 4.00 Set a sandstone 18 x 8 x 6 ins, 12 ins
 in the ground, for 7 sec, cor marked
 $\frac{1}{4}$ 36 on N. and 1 on S faces, and
 raise a mound of stone 2 ft base, $1\frac{1}{2}$
 high, N of cor. Site impracticable.
- 58.00 Deep rocky gulch, 1 ch wide, course
 S. Westerly
- 62.00 Begin steep ascent
- 82.00 Set a granite stone 20 x 16 x 10 ins, 14
 ins in the ground, for cor of Sps
 23 and 24 S, R 28 and 29 E, marked
 with 6 notches on each edge, and
 raise a mound of stone 2 ft base,

North boundary of P 24 S R 28 E - continued
Chain

1/2 ft high, S of cor. Pit impermanent
From this cor. Sun poor peak, Sonora,
Mexico bears S $75^{\circ}35'$ W. Ana Chua
peak bears N $88^{\circ}45'$ W.

Land rolling and mountainous
Soil, generally and stony; 3rd and
4th rates.

No timber, undergrowth, mesquite.
Mountainous or land covered with
dense undergrowth, 8,000 lbs

June 8, 1902.

General Description

This line runs over level, gently rolling
and mountainous land, through dense
undergrowth. P 23 S, R 28 E, is
generally level and gently rolling
and covered mostly with brush

North boundary of P. 24 S, R. 28 E - Cannelton
Chains

undergrowth. The extreme eastern
portion of the M^s is mountainous.
There is good grazing. There are
a number of settlers living within
the M^s. The El Paso and South-
western railroad traverses the
M^s. The M^s should be subdivided

Philip Contzen
U. S. Deputy Surveyor

East boundary of T 24 S, R 28 E
Chains

June 9, 1902. At 8^h 30^m a.m. on
Set off $31^{\circ} 23'$ on the lat arc,
 $22^{\circ} 53' N$, on the decl arc, and determine
a true meridian with the solar at
the cor of $N 23$ and 24 S, $R 28$ and
 29 E as hereinafter described.

Plum Creek Run

South lat 5000 ft and 6

Over mountains land

Descending along W slope of moun-
tain over stony ground.

8.25 Road to spring in mountain, bears

Easterly and Westerly

19.95 Rocky gulch, 30 lbs wide, course S

Westerly

29.00 Foot of descent.

29.40 Rocky gulch 40 lbs wide course

S. Westerly

31.00 To end.

East boundary of P 24 S, R 28 E - Continued
Chains

- 32.50 Pop. brass N. W and S. E. corners
along N slope of mountain
- 41.00 Set a sandstone $18 \times 10 \times 6$ ins, 12 ins
in the ground, for $\frac{1}{4}$ sec cor.
marked $\frac{1}{4}$ 1 on N and 6 on E faces
and raise a mound of stone 2 ft
base, $1\frac{1}{2}$ ft ^{high}, N of cor. its impracticable
- 41.00 D. record
- 44.00 Post
- 58.00 Record
- 6.00 Pop. brass Easterly and Westerly
- 8.00 Set a granite stone $18 \times 10 \times 8$ ins, 12
ins in the ground, for cor of secs
1, 6, 7 and 12, marked with 5 notches
on S and 1 notch on N. edges
and raise a mound of stone 2 ft
base, $1\frac{1}{2}$ ft high, N of cor. its
impracticable.
- Land, mountainous and rolling

East boundary of P 24 S, R 28 E - continued
chainsSoil, gravelly and stony; 3rd and
4th rates

No timber

Mountainous land 6.00 chs

South lot 5 sec 7 and 12

Over rolling land

- 8.80 Gulch, 15 chs wide, corner Westerly
- 14.85 Dry wash, 50 chs wide, corner Westerly
- 26.50 Draw 3 chs wide, corner, Westerly
- 28.25 Dry wash 15 chs wide, corner Westerly
and used
- 31.50 Pop of ridge, runs Easterly and Westerly
- 37.00 Proceed
- 4.00 Set a granite stone 18 x 8 x 6 ins, 12 ins
in the ground, for $\frac{1}{4}$ sec cor, markers
 $\frac{1}{4}$ 12 on W and 7 on E faces, and
raise a mound of stone 2 ft base
 $1\frac{1}{2}$ ft high N of cor. Not impracticable

East boundary of S 24 S, R 28 E - continued
Chains

- 42.00 Foot, end as end
- 46.00 Pop, brass E and W and descend
- 51.00 Foot
- 52.00 Draw, 2 chs mid corner Westerly
- 53.00 As end
- 58.00 Pop of flat ridge, brass Easterly
and Westerly
- 61.00 Descend
- 77.00 Foot and enter draw, corner S.
Westerly
- 78.00 Dry wash, 15 chs mid corner S.
Westerly
- 79.50 Sand draw and as end along W.
slope of ridge.
- 8.00 Set a sandstone 18 x 10 x 8 ins, 12 ins in
the ground, for ev of sres 7, 12, 13
and 18, marked with 4 notches on S
and 2 notches on N. edges, and
raise a mound of stone 2 ft base,

East boundary of T 24 S R 28 E - Continued
Chains

1 1/2 ft high, W of ev. Pits impracticable

Land, mountainous and rolling
Soil, gravelly and stony; 3rd and
4th rates

No timber

Mountainous land 51.75 - chs

South lat. lines 13 and 18

Over mountainous land

Ascending along W slope of ridge
through dense undergrowth

11.00 Top of ascent, lines N.E. and S.W.
and by in descent over steep rocky
terraces

18.00 Foot and enter draw, corner Westerly

29.70 Dry wash, 30 lbs wide (in rocky gulch)
corner Westerly

3.000 Road to San Bernardino ranch

East boundary of T 24 S, R 28 E - continued
Chains

- 35.00 Bars East and West
- 40.00 Bar drawn and as eqd
- 40.00 Set a calcareous stone 18 x 10 x 4 in.
12 in in the ground, for $\frac{1}{4}$ sec cor,
marked $\frac{1}{4}$ 13 on N and 18 on E face,
and raise a mound of stone 2 ft
base, $\frac{1}{2}$ ft high, W of cor. Pit im-
practicable.
- 43.00 Bar drawn underground, bars N.
West and S. East
- 49.40 Road to San Bernardino ranch, bars
N. East and S. West
- 56.00 Pop of ridge bars NE and SW
and begin descent through dense
mangrove undergrowth
- 57.78 Polygraph line to San Bernardino
ranch, bars N. East and S.
West
- 68.00 Post

East boundary of P 24 S, R 28 E - Continued
Chain

71.00 Corner

75.00 Run due underground, brass 7
Westerly and S. Easterly

77.50 Run 1/2 in, brass N. Easterly and S.
Westerly

78.00 Top of ridge, brass E and W.

82.00 Set a granite stone 18 x 8 x 6 ins, 12 ins
in the ground, for cor of secs 13, 15
19 and 24, marked with 3 notches
on N and S edges, and raise a
mound of stone 2 ft base, 1 1/2 ft high
W of cor. Pits impracticable.

East boundary of S 24 S, R 28 E - continued
Chain

Land, mountainous and level
Soil gravelly and stony; 2nd, 3rd
and 4th cuts.

No timber, undergrowth, sage, mes-
quite, tree-tilla, Spanish bayonet
and cacti.

Mountainous or land covered with
dense undergrowth 8000 lbs

South lot 5400 19 and 24

Over mountainous land

Descending

6.62 Intersect International boundary line
bet the United States and re-
public of Mexico, at a point from
which Monument No. 83 bears West
38.70 lbs dist.

Set a limestone 18 x 8 x 6 ins, 12 ins
in the ground for closing cor of

East boundary of T 24 S, R 28 E - concluded

frac 29es 19 and 24 marked C & X
 on N, 19 on E, Mex on S, and 24
 on W face, and raised a mound of
 stone 2 ft base, 1 1/2 ft high N. of cor
 Site impracticable.

X Land mountainous

Soil stony, 4th rate

No timber

Mountainous land 2.62 ch.

June 9, 1902

General Description.

Tp 24 S, R 29 E is level and mountainous and covered with good
 grasses, There ^{are} a number of settlers
 living in the Tp. This Tp should
 be included

Philip Cooney
 W. S. Deputy Surveyor.

A P P R O V A L .

OFFICE OF THE U. S. SURVEYOR GENERAL.

Phoenix, Arizona.

Oct 25/1902

The foregoing field notes of the survey of North + East Bdy. of
Tp 24 S, R 28 E
executed by Philip Contzen, Jr.
under his contract No. 93 dated
April 28 1902, having critically
examined, and the necessary corrections
and explanations made, the said field notes,
and the surveys they describe,
are hereby approved.

Nugh Price
U. S. Sur. Gen. for Arizona.