

NORTH & WEST
BOUNDARIES
T. 24 S. R. 22 E
CONTRACT 87
PHILIP CONTZEN
U.S. DEP. SUR

1584

1584

BOOK 1584

4-671

BOOK 1584

FIELD NOTES
GENERAL LAND OFFICE.

BOOK 1584

Field Notes 1584 1

Of the survey of the
North and West Boundaries
- of -
Township No. 24 South,
Range No. 22 East
- of the
Gila and Salt River Basins and Meridian
- On the
Frontier of Arizona
As surveyed by
Philip Conzen
U. S. Deputy Surveyor

Under his contract No. 87
Dated August 24, 1901.

Survey commenced September 15, 1901.
Survey completed September 17, 1901.

BOOK 1584

Preliminary Oaths of Assistants.

We, John M. Trayer, Casimir Barthelmy
 and John L. Mitchell & Owen Brown
 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 exterior & subdivision
lines of Tps
21 S. R. 20 E. & 21 E - Tps 22 E/23
South Range 20 East - Tps
23 and 24 South Range 22 East
including exterior of T. 23 S. R. 21 East
and resurvey of 4th Standard Parallel
South through Tps 19 - 20 & 21 East
 of the Gila and Salt River Base and Meridian in
 the Territory of Arizona.

John M. Trayer Chainman.
Casimir Barthelmy Chainman.
John L. Mitchell Chainman.
Owen Brown Chainman.

Subscribed and sworn before me, this 12th

day of September 1901

Philip Conzler
Notary Public.

U. S. Deputy Surveyor

[SEAL.]

No notary available

We, Chas. Pogue, W. W. Miller, 2A

BOOK 1584

3

E. J. Breslin

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 exterior

of subdivisions lines of Tps

21 S. R. 20 and 21 East - Tps

22 and 23 S. Range 20 East -

Tps 23 and 24 S. Range 22 East

including exterior of S. 23 S. R. 21 E

and returning to 4th Standard Parallel south through R. 19-20+21 E

of the Gila and Salt River Base and Meridian, in

the Territory of Arizona.

Chas Pogue, Flagman

W. W. Miller, Axeman

E. J. Breslin, Axeman

Subscribed and sworn to before me this 12th

day of September 1891

Philip Contzen
Notary Public.

U. S. Deputy Surveyor
No notary available

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cc
INTERNATIONAL
BOUNDARY
" MEXICO "

North Boundary Page 8
West " " 20

North boundary of T 24 S, R 22 E.
Chains

Survey commenced September 15,
1901, and executed with a Gurley
light mountain transit, No. 4607,
with a Burt's solar attachment.

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

I begin at the corner of
Townships 23 and 24 South, Ranges
22 and 23 East, which is a
Cement stone, 6 x 8 x 6 ins above
ground, marked and witnessed
as described by the surveyor
general.

In order to test the solar
apparatus by comparing the
results of observations on the

North boundary of P 24 S, R 22 E - Continued
Chains

run, made during a. m. and p. m. hours with a true meridian determined by observations on Polaris, & proceed as follows:

At 3.²⁰ p. m. local mean time, I set off $31^{\circ}23'$ on the lat arc, $3^{\circ}02'$ N on the decl arc and mark the meridian thus determined with the solar by a cross on a stone firmly set in the ground, 5 chs N of the instrument.

At 7.⁵⁰ p. m. local mean time, by my watch which is correct, I observed 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 of P 24 S, R 22 E.

Chains

peg set in the ground, 5 chs
N of my position.

September 15, 1901.

September, 16, 1901. At 7 a.m.
I lay off the azimuth of Paris
 $1^{\circ} 26'$ to the west, and mark
the true meridian thus de-
termined by cutting a small
groove in the stone set last
evening, on which the true
meridian falls .22 ins east
of the mark determined by the
solar.

At 8:35 a.m. l.m.t., I set off
 $31^{\circ} 23'$ on the lat arc; $2^{\circ} 45' W$
on the decl arc and mark the
meridian determined with the
solar by a cross on the stone

North boundary of P 24 S R 22 E - continued
 chains

already set, 5 chs N of my station.
 This mark falls 0.3 ins east
 of the true meridian estab-
 lished by the Solaris obser-
 vation.

The solar apparatus by p. m.
 and a. m. observations defines
 positions for the true meridian
 with sufficient accuracy,
 therefore I conclude that the
 adjustments of the instrument
 are satisfactory. The magnetic
 bearing of the true meridian
 at P. a. m. is $N, 2^{\circ} 25'$ west, the
 angle thus determined reduced
 by the table, page 100, gives the
 mean mag. decl. $12^{\circ} 22'$ east.

From the above described en

North boundary of T 24 S, R 22 E.
Chains

Prun

West bet sees 1 and 36.

Over rolling and level land
Descending from stony ridge

3.50

Draw lines S W and N. E.

4.00

Enter dense mesquite under-
growth, lines S W and N. E.

20.00

Leave dense mesquite under-
growth, lines S W and N E.

40.00

Set a pine 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 36 on N and S 1
on S faces, dig pits 18x18x12
ins, E and W of post, 3 ft
dist, and raised a mound of
earth $3\frac{1}{2}$ ft base, $1\frac{1}{2}$ ft high,
N of ea.

44.60

Enter valley, lines S E and N W

North boundary of Sec 4 S. R. 22 E. - continued

Chains
61.00Wash, 15-lks wide, course N
westwly.

86.00

Set a pine post 3 ft long, 4
ins sq, with marked stone,
24 ins in the ground, for cor
of secs 1, 2, 35 and 36, marked
P 23 S, S 36 on NE,
R 22 E, S 1 on SE; P 24 S,
S 21 on SW, and
S 35 on NW faces with 1
notch on E and 5 notches on
W edges. Dug pits 18x18x12 ins
in each sec, ^{5 1/2 ft dist} and raised a
mound of earth 4 ft base 2
ft high W of cor.
No other trees near.
Sand rolling and level.
Soil, gravelly and sandy
loam, 2nd and 3rd rate
No timber, undergrowth, mis-

From this cor
228 3/4 sec 10, 11, 12, 13, 14
229 1/2 sec 10, 11, 12, 13, 14
230 1/2 sec 10, 11, 12, 13, 14
231 1/2 sec 10, 11, 12, 13, 14

North boundary of Sec 4 S. R. 22 E.
Chains

9 mts.

Land covered with dense m-
dergrowth, 16.00 chs.

West bet sees 2 and 35

Over level and gently rolling
land

3.00

Wash, 1 ch wide, course N westerly,

12.00

Enter scattering mesquite m-
dergrowth

40.00

Set a pine 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 35 on N and S
on S face; dug pits 18x18x12 ins
E and W of post, 3 ft dist and
raised a mound of ^{earth} $8\frac{1}{2}$ ft base,
1 $\frac{1}{2}$ ft high, N of cor.

46.70

Draw valley and enter gently

North boundary of Sec 4 S, R 22 E continued
Chains

rolling land

54.00 Bear scattering and growth,
bears N W and S E

67.65 Road bears N W and S E.

8.000 Set a pine post 3 ft long, 4
ins sq, with marked stone, 24
ins in the ground, for ea of sees
2, 3, 34 and 35, marked

S 23 S, S 35 on N E =

R 22 E, S 2 on S E; S 24 S.

S 3 on S W, and

S 34 on N W faces with 2
notches on E end and 4 notches
on W edges. dig pits 18x18x12
ins in each see, 5 1/2 ft dist

and raised a mound of earth
4 ft base, 2 ft high, W of cor.

Land level and gently rolling
Soil, sandy loam and gravelly,

North boundary of Sec 5, B 22 E
Chains

2nd and 3rd rate.
No timber.

- West bet sees 3 and 34
- Over rolling and level land
- 14.00 Enter scattering mesquite and
tricotia undergrowth.
- 9.50 Draw a chs wide, bears N W and
S E, head of draw ^{Draw} 10 chs S E
- 15.00 Draw scattering and enter
dense undergrowth, bears N
and S
- 31.00 Descend gradually to San Pedro
Valley.
- 40.00 Set a pine post 3 ft
long, 4 ins sq, with marked
stone, 24 ins in the ground,
for 4 sec cor, marked 4 S
34 on N and S 3 on S

North boundary of S 24 S, R 22 E - Continued
Chains

facers; dug pits 18 x 18 x 12
ins. E and W of post, 3 ft
dist, and raised a mound
of earth $3\frac{1}{2}$ ft base, $1\frac{1}{2}$
ft high, N of cor.

49.00 Cross dense undergrowth, bars
N and S, and enter San Pedro
valley, bars N and S.

77.40 Road, bars N and S

80.00 Set a pine post 3 ft long, 4
ins sq, with marked stone, 24
ins in the ground, for cor of
secs 3, 4, 33, and 34, marked
S 23 S, S 34 on NE,
R 22 E, S 3 on SE; S 24 S,
S 4 on SW and
S 33 on NW facers with 3
notches on E and 3 notches on

North boundary of Sec 4 S. R. 22 E.
Chains

W rdgrs; dug pits 18x18x12 ins
in each sec, 5¹/₂ ft dist, and
raised a mound of earth 4 ft
base, 2 ft high, W of cor.

Land rolling and level
Soil sandy loam and gravelly,
1st and 3rd rate

No timber, underground, mesquites
and teota.

Land covered with dense under-
growth, \$4.00 chs

West bet sec 4 and 33

Over level land

15.40 Wash, 25 lbs wide, course N
eastly

21.00 Wash, 35 lbs wide, course N
eastly.

26.00 San Pedro river, 2 chs wide

North boundary of P 24 S R 22 E - Continued
Chains

course, N eastraly.

4 00.00

Set a pine post 3 ft long, 4 ins sq, with marked stone, 24 ins in the ground for 4 sec cor, marked $\frac{1}{4}$ S 33 on N and S 4 on S faces; dug pits 18x18x12 ins, E and W of post, 3 ft dist, and raised a mound of earth 3 $\frac{1}{2}$ ft base, 1 $\frac{1}{2}$ ft high, N of cor.

4 5.60

Road, bears N E and S W.

4 7.00

Wire fence cor, bears 5 chs S.

8 00.00

Set a pine post 3 ft long, 4 ins sq, with marked stone, 24 ins in the ground for cor of secs 4, 5, 22, and 33, marked P 23 S, S 33 on N E R 22 S, S 4 on S E; P 24 S, S 5 on S W and S 32 on N W faces with 4

North boundary of Sec 4 S, R 22 E.
Chains

notches on E and 2 notches on
W edges. dug pits 18x18x12 ins
in each sec, 5 1/2 ft. dist, and
raised a mound of earth 4 ft
base, 2 ft high, W of cor.
Land level.

Soil sandy loam; 1st rate
Timber a few cottonwood along
river banks.

West bet secs 5 and 32.
Over level land

40.00

Set a pine post 3 ft long, 4
ins sq. with marked stone, 24
ins in the ground, for 1/4 sec cor
marked 4 S 32 on N and S 5
on S faces. dug pits 18x18x12 ins
E and W of post, 3 ft dist, and
raised a mound of earth 3 1/2

North boundary of Sec 4 S 22 E - continued
 chains

8.000

ft base, $1\frac{1}{2}$ ft high, $\frac{1}{2}$ of cor.
 Set a pin in post 3 ft long, 4
 ins sq, with marked stone, 2 4
 ins in the ground, for cor of
 sec 5, 6, 31 and 32, marked
 S 23 S, S 32 on NE

R 22 E, S 5 on SE; S 24 S,
 S 6 on SW and

S 31 on NW faces with 5
 notches on E and 1 notch on
 W edges. dig pits 18x18x12
 ins in each sec, $5\frac{1}{2}$ ft dist
 dist, and raised a mound of
 earth 4 ft base, 2 ft high,
 W of cor

Land, level.

Soil, sandy loam, 1st rate.

No timber

North boundary of P 23 S, R 22 E.
6 chains

West bet sees 6 and 31
Over level land

4000

Set a pine 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 31 on N and
S 6 on S face, dug pits
18x18x12 ins E and W of post,
3 ft dist, and raised a mound
of earth $3\frac{1}{2}$ ft base, $1\frac{1}{2}$ ft
high, N of cor.

49.56

Set a pine post 3 ft
long, 4 ins sq, with marked
stone, 24 ins in the ground,
for cor of Tps 23 and 24 S,
R 21 and 22 E, marked
P 23 S, S 31 on NE
R 22 E, S 6 on SE
S 24 S, S 1 on SW end

North boundary of Sec 4 S. R. 22 E. Concluded
Chains

R 21 E, S 36 on NW faces
with 6 notches on each edge;
dug pits 24x24x12 ins on
each line, N, E and W 4
ft and S of post 8 ft. dist,
and raised a mound of
earth 5 ft base, 2 1/2 ft
high, S of cor.

Land, level.

Soil, gravelly; 3rd rate.

No timber

September 16, 1901.

General Description.

This line runs over level and rolling
land. Sec 3 S, R 22 E is level and
rolling.

Philip Conzen
U. S. Deputy Surveyor.

West boundary of S 24 S, R 22 E - Continued
Chains

September 14, 1901. At 7^h 00^m
a.m. I set off $31^{\circ} 23'$ on
the lat arc, $2^{\circ} 22' N$ on the decl
arc, and determined a true meri-
dian with the solar at the cor-
ner of S 23 and 24 S, R 21 and
22 E, as heretofore described.

Shiner Brun

South on a true line
bet sees 1 and 6.

Over level land.

4 0.00

Set a red wood 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 1 on W and S
6 on E faces; dug pits 18 x 18 x 12
ins, N and S of post, 3 ft dist,
and raised a mound of earth
 $3\frac{1}{2}$ ft base, $1\frac{1}{2}$ ft high, W of

West boundary of P 24 S R 22 E - Continued
Chains

cor.

8.000

Set a redwood post 3 ft long,
4 ins sq, with marked stone,
24 ins in the ground, for cor
of sees 1, 6, 7 and 12, marked
P 24 S, S 6 on N E
R 22 E, S 7 on S E
S 12 on S W end.

R 21 E, S 1 on N W faces with
notch on N and 5 notches on
S edges; dug pits 18 x 18 x 12 ins
in each see, 5 1/2 ft. dist and
raised a mound of earth 4 ft
base, 2 ft high, W of cor.
Land level.

Soil, gravelly; 2 Sand & Gravel.
No timber.

South on a true line

W. boundary of P 24 S R 22 E - continued
 Chains

bet sees 7 and 12

Over level and gently rolling
 land.

17.23

Road, bears N.E.

40.00

Set a redwood post 3 ft long,
 4 ins sq, with marked stone
 24 ins in the ground, for $\frac{1}{4}$
 sec cor, marked 7 S 12 on
 W and S 7 on E faces, dug
 pits 18x18x12 ins N and S of
 post, 3 ft dist, and raised a
 mound of earth 3 x 3 ft base,
 1 1/2 ft high, W of cor.

8.00

Set a redwood post 3 ft long, 4
 ins sq, with marked stone, 24
 ins in the ground, for cor of
 sees 7, 12, 13 and 18, marked
 P 24 S, S 7 on N.E.
 R 22 E, S 18 on S.E.

West boundary of P 24 S, R 22 E - Continued
 Chains

S 13 on SW and
 R 21 E, S 12 on NW faces
 with 2 notches on N, and
 4 notches on S edges; dug
 pits 18x18x12 ins in each sec
 5 1/2 ft dist, and raised a mound
 of earth 4 ft base, 2 ft high,
 W of each

Land level and gently rolling.
 Soil, gravelly; 2nd and 3rd rate.
 No timber.

South on a true line
 bet sec 13 and 18.

Over rolling land

.43 Wash, 10 lks wide, course S
 easterly

21.50 Wash, 30 lks wide, course N
 easterly S. Westerly

West boundary of S 24 S. R. 22 E - Continued

Chains

34.00

Wash, 30 lbs wide, course S
easterly

40.00

Set a redwood post 3 ft long, 4
ins sq, with marked stone, 9 1/2
ins in the ground, for 1/4 sec
cor, marked 1/4 S 13 on W and
S 18 on E faces, dug pits 18 x 18 x 12
ins N and S of post, 3 ft dist,
and raised a mound of earth
3 1/2 ft base, 1 1/2 ft high, W of cor

68.00

Wash, 40 lbs wide, course easterly

80.00

Set a sandstone 18 x 12 x 8 ins, 10
ins in the ground, for cor of
secs 13, 18, 19, and 24, marked
with 3 notches on N and 3 notches
on S edges, and raise a mound
of stone 2 ft base, 1 1/2 ft high,
W of cor. Site impracticable
Land, rolling.

West boundary of Sec 1, T22N, R22E - Continued

Chains

Soil, gravelly; 2nd & 3rd rate
No timberSouth bet. ^{back} secs 19 and 24.

Over rolling land

4.00 Wash, 4 Chs in dr course, easterly

12.25 Wire fence, bears E and W

12.20 By treaty & International body line
bet the United States and Re-
public of Mexico, 1.73 Chs E of
Mex. No. 98.Set a granite stone 18x12x12 ins,
12 ins in the ground, for closing
cor of back secs 19 and 24, marked
C. C. Sec 4 S on W

R22E, 19 on E

R21E 24 on W and

W. E. X on S faces, and raised
a mound of stone 2 ft base,

West boundary of Sec 4 S. 20 E. E. concluded.

Chain

12 ft high, N of cor. Ditch
impracticable.

Ground, rolling

Soil, gravelly, 2nd and 3rd rate
No timber.

September 17, 1901.

General Description.

This line runs over rolling land. The soil is mainly gravelly, there is no timber along the line. Sec 24 S. 20 E. is rolling and level mesa land; the extreme western tier is mountainous and has some good oak timber. There is good grazing.

Philip Outzen
U.S. Deputy Surveyor.

BOUNDARIES of TAZARRA

LATITUDES, DEPARTURES, AND CLOSING ERRORS

LINE DESIGNATED	TRUE BEARING	DIST.	LATITUDES		DEPARTURES	
			N	S	E	W
		CHS	CHS	CHS	CHS	CHS
EAST BOUNDARY	SOUTH	252.54		252.34		480.33
SOUTH BOUNDARY	WEST	480.33				
WEST BOUNDARY	NORTH	252.30	252.30		479.56	
NORTH BOUNDARY	EAST	479.56				
CONVERGENCY			252.30	252.64	480.00	480.33
TOTALS			252.30	252.30		480.10
ERROR IN LAT.				0.24		0.33
						MINOR IN DEF.

APPROVAL.

OFFICE OF UNITED STATES SURVEYOR GENERAL,

Tucson, Arizona, *Feb'y. 5th* 1902

The foregoing field notes of the survey
of *North and West b'dys. of*
Tp. 24 S., R. 22 E.

Gila & Salt River meridian

executed by *Philip Cortzen, Dep. Insr.*under his contract No. 87, dated *Aug 24-1901.*

having been critically examined, and the

necessary corrections and explanations

made, the said field notes, and the surveys

they describe, are hereby approved.

Aug L. H. Price

U. S. Surveyor General for Arizona.