

N. + W. BDRS. T2N R4E.
N. BDY. T2N R3E
BOOK A.

No. 1734

BOOK 1734

1734

4-671

FIELD NOTES
GENERAL LAND OFFICE.

Field Notes

of the survey of parts of the
North and West Boundaries

of

Township 2 North Range 4 East
and part of the *West Bdy. of T. 2 N. R. 3 E.*
of the

Gila and Salt River Base and Meridian

in the

Territory of Arizona

as surveyed by

N. F. Robinson

U.S. Deputy Surveyor

under his contract No. 91

Dated June 2^d 1902.

Survey Commenced July 23rd 1902

Survey Completed. April 30th 1903

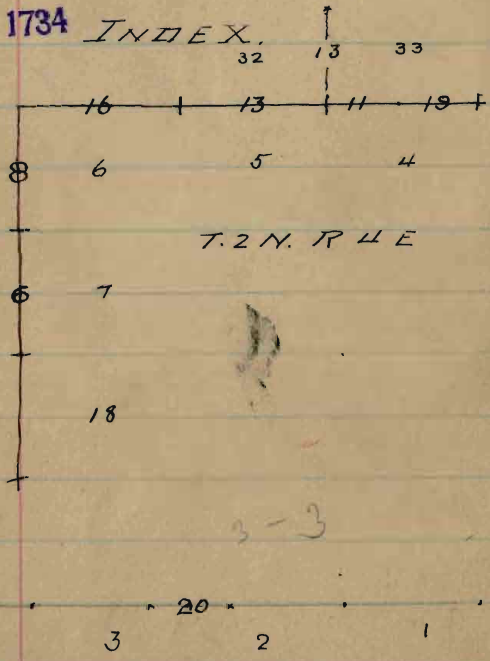
for Preliminary oath see book of Subs. T.2 N. R. 4 E.

- ✓ Names and Duties of Assistants.
- ✓ N. Clay Parker Chairman
- ✓ O. A. Turney Chairman
- ✓ Jno T. Remick Chairman
- ✓ Arthur P. Davies Chairman
- ✓ J. A. Wood Flagman
- ✓ J. M. Bower Steward

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T. 2 N. R. 3 E

Exteriors T_p 2 N R_s 3rd & 4 E.

Survey commenced July 23rd 1902
and executed with a W^{est} & L. E.
Gurley transit with 5 inch
needle and 6 inch horizontal
circle. The instrument has no
maker's number. The horizontal
limb
having two double verniers
placed opposite to each other,
reading to single minutes of
arc.

I begin at the corner to Secs. 9-
10-15 and 16 which is the corner
as described by the Surveyor General
and further marked by a stone
- x 10 x 4 ins. marked "G C" with
3 notches on the east and 4 on
the south faces -

Note. -

In the years 1887 and
1888, being supplied with a

copy of the field notes of T. 2 N. Rs. 3 and 4 E. I made a re-survey of the entire surveyed portion of these two townships, and all original corners found by me that were marked with stake, mound and pits were further marked by me for their preservation with a stone with the proper marks and also the letters G. C. (for Government Corner).

All corners referred to in these notes as being so marked are hereby certified by me to have been found by me in the years mentioned before any settlers had come into that portion of the

vally to disturb the original markings, and were preserved by me by stones as above described. —

At a point marked on the top of the said corner by an X, the latitude ~~33° 33' N~~ ^{33° 31' N} as given me by the Surveyor General) and at 11^h 23.7^m local mean time I observed Polaris at eastern elongation, in accordance with instructions in the manual, and marked the line so determined by a tack driven in a wooden hub set five chains N. of my station.

July 21, 1902 I lay off the azimuth of Polaris $1^{\circ} 27.5'$ to the west and mark the true meridian thus determined by

W. boundary T 2 N R 4 E

a tack in a hub firmly driven in the ground.

The magnetic bearing of the true meridian is $13^{\circ}40'E$.

July 31, 1902

After diligent search for the $\frac{1}{4}$ corner between Secs.

7 and 12 T 2 N R 3 and 4 E

I commenced at the cor
to Sec's 7-12-13 and 18¹ as described by Surv. Genl. and
run N on true line betw.

Secs 7 and 12. ascend

5.00 top hill 50 ft high, descend
13.00 deep wash, course $S. 80^{\circ}W$. ascend
21.00 top hill 150 ft high, descend
27.00 bottom and deep wash $S. 70^{\circ}W$
ascend.

40.00 There being no sign of a corner, after further search I set a granite

W. Boundary T2NR4E.

stone 16 x 8 x 6 ins. 12 ins in
ground with $\frac{1}{4}$ marked on W.
face. dug pits 18 x 18 x 12 ins
N. and S on line, 3 ft dist. and
built mound of earth $2\frac{1}{2}$ ft
base and 2 ft high on the N.

- 41.69 2 ft E. of Palo Verde tree 6 ins diam.
- 48.20 Enter deep wash Course S. W.
- 49.20 leave wash foot of mt.
- 52.50 wash, course S. E. 100 lks wide
- 54.00 enter wash course S. W.
- 56.00 leave wash
- 58.00 up steep slope
- 66.00 top descend
- 69.35 bottom and wash, course S. E
85 lks wide ascend.
- 80.00 Set a quartz stone 16 x 6 x 4
ins for cor of Secs 1-6-7 and 12
marked 1 notch on N and S on
S edge. in a mound of stone

W. Boundary T. 2 N. R. 4 E

it being impossible to
dig hole to set stone.

Built a mound of stone
w. 2 ft base $1\frac{1}{2}$ ft high
fits impracticable.

This cor. is on steep Eth
slope of high mt.

Land rough

Soil gravel and rock
4th rate

No timber

Mountainous 30-80 chs.

July 31st 1902

Mar. 10 1903.

N. betw. Secs 1 and 6
along E. side of steep moun-
tain.

8.33 descend.

15.75 bottom and wash, course
E 40 lbs wide, ascend

W. Boundary T. 2. N. R. 4 E

- 25.15 Top ridge, slight descent, and
thence over very broken, rocky
country, generally ascending
- 40.00 at the foot (N.E. Corner) of a
granite cliff 75 ft high. I
mark a granite rock in place,
part of the cliff lying horizontally.
I mark an "X" for exact position
of ~~position~~ ^{corner} and "1/4" west of it,
and build a mound of stone
on east it being impossible
to build it on the west, 2
ft. base and 2 ft high.
fits impracticable.

March 16. 1903.

Thence

- 47.30 a wash, course E, thence
ascending over extremely
rough and broken country
- 72.00 top of mountain, descend

W. Boundary T. 2 N. R. 4 E

80.39 I fall E of Sp cor. to
 Sp. 2 and 3 N. Rs. 3 and
 4 E as described by the
 Surveyor General 2.17
 chains.

I therefore at this point
 place a granite stone $8 \times 12 \times$
 24 ins in a mound of stone
 on steep N. slope of mountain
 for cor to Sp. 2 N. Rgs. 3 E
 marked with 6 notches on
 S and W edges with 4 E on
 E face and 3 E on W face
 (in accordance with Fig. 1.

Pl. 8 of Manual) with mound
 of stone on S. 5 ft base
 $3\frac{1}{2}$ ft. high, pits in prac-
 ticable, from which the
 Township corner bears N.
 2.17 ch.

N. Boundary T. 2 N. R. 4 E.

Land extremely rough.

Soil. none, all rock

No timber.

Mountainous 80.39 Chs.

March 17th 1903.

Mar. 18, 1903.

Not finding the corner to
Secs 4 and 5 on the north
Township line of T. 2 N. R. 4 E.
after diligent search, I com-
menced at the $\frac{1}{4}$ cor. n. of Sec.
4, which is a stone 5" x 6 x
8 ins. above ground, with
a mound of stone alongside
as described by the Surveyor
General

Thence I ran as directed
by the Surveyor General
in my special instructions.

West, betw Secs 4 and 33
on the tangent

N. Boundary T2 NR4E

over rolling land.

34.50 foot steep hill - ascend
at an angle of about 45°
0.35 lks N from tangent

40.00 \wedge marked a stone in place,
which was part of the bed
rock of the mountain, for
cor. to Secs. 32-33-4 and
5 on side of cliff with
an "X" for exact position
marked with 4 notches on
E and 2 on W Edges.

Built a mound of stone
 $2\frac{1}{2}$ ft base, 3 ft high 3 ft
S.E. & it being impossible
to build it in any other
place, being on a ledge
on face of cliff

Soil 4th rate

Land rolling

No timber

N. Boundary T. 2 N R. 4 E

mountainous 5.50 chains.

To verify the position of
the cor. to Secs. 32-33-4 and
5 I ran north on true line
between Secs. 32 and 33, T 3 N
R 4 E, over rough mountain

25.76 foot of mountain - across
level valley

40.00 The $\frac{1}{4}$ cor. between 32 and 33
Soil 4th rate to edge valley
balance 1st rate.

Land mountainous for
25.76 chains balance level
to timber

mountainous 25.76 chains

constructed N. 89° 59' West ^{on the tangent} between Secs. 32 and 5

0.90 top ridge, bears N. 10° W
descend almost perpendicular

N. Boundary T. 2 N R 4 E

- face
- 22.20 foot of steep descent and
a wash, course N. 30° W
15 lks wide
- 23.20 a wash course S. 20 lks
wide
- 24.35 a wash, course N. 10° E
60 lks wide
-
- 40.00 70 lks N. from the tangent.
Set a white quartz stone
20 x 6 x 5 ins 15 ins in
ground marked $\frac{1}{4}$ on N.
face with pits 18 x 18 x 12
ins E and W on line, with
mound of earth 2 $\frac{1}{2}$ ft
base 2 ft high on N.
From which a palo verde
tree 10 ins in diam. bears
N. 77° 0' E 110 lks. distant,
marked $\frac{1}{4}$ 5. 32. B.T.
- 44.80 ~~No other trees~~
Center wash, course N 20° E

N. Boundary T. 2 N. R. 4 E

47.60 leave wash ascend

80.00 \nearrow 1.66 lks N. from the tangent
set a granite stone 18x6x5

ins marked with 5 notches
on E and 1 notch on west
edge set 12 ins. in ground
with pits 18x18x12 ins. in
each section and raised
a mound of earth 3 ft base
and 2½ ft high n. of corner
for cor to Secs. 5-6-31 and 32
from which

a palo verde tree 6 ins in
diam. bears S. 68° 40' W 75 lks
marked T 2 N. R 4 E 5 6 31 T.

a palo verde tree 12 ins in
diam bears N. 20° 20' E. 188
lks. marked T 3 N. R 4 E 5 32
B.T. No other trees in limits

Land rolling, partly moun-
tainous.

Soil gravelly and rocky
4th rate.

No timber

Mountains 22.20 chains
March 18th 1903.

May 20, 1903 the tangent on
Continue N. 89° 59' West on a random line
between Secs. 6 and 31
2.60 lks N from tangent
40.00 Set leup $\frac{1}{4}$ cor
4.30 lks N from tangent.
80.63 intersect Sp. line 64 lks
S. of Sp. cor. placed by
me.

Falling out of limits
for one mile, in accordance
with my special instructm
I set a granite stone
22 x 14 x 5 ins in mound
of stone, it being imprac-
ticable to set it into
ground on account of

N. Boundary T 2 N. R. 4 E

rock, for closing corner
of Secs. 6 and 31 marked C.C
on E with 6 grooves on S and
E faces, and raised a mound
of stone 3 ft base $2\frac{1}{2}$ ft high
on E of corner.

fits impracticable, no
bearing trees, and from
which the Township cor.
bears N. $72^{\circ}50'W$. 2.76 chs.
Thence I ran

East on a true line betw.
Secs 6 and 31 descend.

1.75 a gulch & wash course
N. W. ascend steep side
mountain very rough
and rocky.

18.00 Top ridge - descend, gradual
slope of mountain

35.58 creek of abrupt descent

N. Boundary T. 2 N. R. 4 E

- 40.63 Marked a granite rock
in place $3 \times 10 \times 2$ feet
with an 'x' for exact point
of corner with $\frac{1}{4}$ for N.
for $\frac{1}{4}$ corner Secs. 6 and
31 with mound of stone
3ft base $2\frac{1}{2}$ ft high.
on N. of corner. Pits
impracticable - ascending
a dyke, ~~phosphory~~ stone
bears N. 10° E.
- 65.87 a wash 55 lbs wide
course S. E. ascend spur of
mountain
- 72.00 Top. descend.
- 80.63 The cor to 5-6-31 and 32
Land Mountainous
Soil - rocks - some little 4th rate
No timber
Mountains 80.63 chs.
March 20 1903.

N. Boundary T. 2 N. R. 4 E.

Mar. 24, 1903

33rd 34th

At cor. of Secs. 3-4 on
N. boundary of T. 2 N. R. 4
E. as described by the
Surveyor General, I ran
W. on a random line, to
retrace and verify falling-

38.65 I fall 3.09 chs. S. of $\frac{1}{4}$ sec
Cor. as described by the
Surveyor General

Thence I ran
S. $85^{\circ} 26' E$ on a true line
between Sec. 4 and 33 over
rolling land

38.77 The corner to 3-4-33 and
34.

Land rolling

Soil gravelly and rocky
3^d and 4th rate.

No timber

March 24, 1903.

N. Boundary T. 2 N. R. 3 E.

Apr. 1, 1903

Begin at W.C. on n.
of Sec. 2 as described
by the Surveyor General,
ran n. on random line
betw Secs 2 and 35.

15.00 Set temp Sec. Cor.

Thence n. on random
line betw Secs 3 and 34

17.03 I fell S. of W.C. 6 lks. I
therefore ran S. $89^{\circ} 54' E$
first destroying W.C.
ascend steep mountain

17.00 Top mt. descend.

17.01½ Set a shale stone 3x
8x20 ins. 13 ins in ground
and mound of rock, being
impossible to dig full
depth required, for Cor of
Secs
2 and 3 on n. boundary
T 2 N. R. 3 E.

marked with 2 notches on E and
 4 notches on W. edges and 2 N
 on S. W. and 3 ~~W~~^E on N. W. face,
 and raised a mound of stone
 2 ft base and $2\frac{1}{2}$ ft high on
 west of cor. *Ptz impracticable.*

32.03 the W. C. which I destroyed

Land mountainous

Soil 4th rate

No timber

Mountainous 32.03 chs.

April 1 1903.

General Description

These lines pass over rough,
 rolling and mountainous land

Soil 3rd & 4th rate.

No timber nor water

No settlers.

H. J. Robinson
 U.S.D.I.

Note:— I found it impracticable
 to take observations on Polaris
 every night, owing to overclouded
 skies, and great distance from
 camp and water supply, —
 However, all lines were pro-
 jected from meridians estab-
 lished by Polaris observations
 at commencement of survey

A. J. Robinson
 U. S. S. S.

for final notes see book
 Obs. T. L. N. R. A. E.

Table of Latitudes and Departures

		Latitudes	
		North	South
North	16000	160.00	
N. 0° 38' W	80.47	80.47	
N. 85° 26' W	38.77	3.09 3.04	
West	200.63		
South	159.75		159.75
S. 0° 34' W	40.58		40.58
S. 0° 19' W	40.62		40.62
S. 87° 01' E	39.53		2.06
S. 87° 2' E	40.00		2.07
S. 89° 30' E	40.09		.36
S. 89° 46' E	40.12		.17
N. 89° 09' E	80.00	1.18	
		244.74	245.61
			<u>244.74</u>
Error in Latitude			0.87
Error in Departure			

YES and Closing Errors.

Debit
 East west

.89

38.65

200.63

.38

77

39.47

39.44

40.09

40.11

79.99

239.60

240.77

239.60

1.14 lks

A. J. Johnson
 W. S. S.

No. 1734

APPROVAL. BOOK 1734

Office of the

United States Surveyor-General,

Phoenix, Arizona.

Nov. 19, 1904

The foregoing field notes of the sur-

vey of parts of the N & W. Bds. of
T. 2 N. R. 4 E. and a part of the
N. Bdy of T. 2 N. R. 3 E.
of the Gila and Salt River Base and Me-

ridian, in the Territory of Arizona,

executed by *H. F. Robinson*

United States Deputy Surveyor, under his
contract No. 94, dated June 2 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. [Signature]
U. S. Surveyor-General.