

1582

1

Northth West

Boundaries

Tp 24 S, R. 24 E

1582

BOOK 1582

4-978.

FIELD NOTES

GENERAL LAND OFFICE.

1582

BOOK 1582.

Preliminary Oaths of Assistants.

We, Wm Hryn
 and A. H. Leland
 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 West boundary
 of Township 24 South
 Range 24 East

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

Wm Hryn Chainman.

A. H. Leland Chainman.

..... Chainman.

..... Chainman.

Subscribed and sworn before me, this 19
 day of Sept 1898

John A. Rockefeller
 U.S. Deputy Surveyor Notary Public.

[SEAL]

No officer authorized to administer oaths
 available without great inconvenience.

1A

We, Felix Buruela

Michael O'Connor

do solemnly swear that we will well and truly per-

form the duties of flagman

and boundman
and axe-man

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

and west boundary

of Tp 24 South Range

24 East

of the Gila and Salt River Base and Meridian, in

the Territory of Arizona.

witness: ^{his} Felix Buruela
Wm Hya mark

M. H. Connor

Subscribed and sworn to before me this 19

day of Sept 1898

John A. Beckwith
U.S. Deputy Surveyor, Notary Public.

The, other than myself being
delayed and expense

Field Notes
of the survey of the
North and West Bound-
aries of
Township 24 N., Range 24 E
of the
Gila and Salt River
Base and Meridian
in the
Territory of Arizona
as surveyed by
John A. Rockfellow
U. S. Deputy Surveyor.

Under his contract No 41
Dated May 21. 1898.

Survey commenced Sept 18, 1898
" completed Sept 30, 1898

2 Names and Duties of
Assistants.

Wm Heyn Chairman
H. H. Leland Chairman
M. H. O'Connor moundman
M. H. O'Connor axeman
Felix Burella Flagman

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(4-674.)

Township 245 R. 24E.

	16	15	13	11	10	7
8	6	5	4	3	2	1
20	7	8	9	10	11	12
21	18	17	16	15	14	13
23	19	20	21	22	23	24
	30	29	28	27	26	25
	31	32	33	34	35	36

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North Body Page 7
West " " 18

4.

BOOK 1582

North Boundary Tp, 24 S, R 24 E.

Page #

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Survey commenced Sept. 18, 1898. And executed with a Young & Sons light mountain transit no 6855 with solar attachment. The horizontal limb is provided with 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 tested on the true meridian at Tucson July 6, 1898 and approved by the Surveyor General of Arizona. Sept 18, I proceed at a point near cor. Tps 23 & 24 S Range

North boundary J/1, 24 S, R 24 E.

24 and 25 E lat $31^{\circ} 22\frac{1}{2}' N$.
 Long. $109^{\circ} 50' W$ to observe
 Polaris at eastern elonga-
 tion in accordance with
 Manual of Instructions.
 At 7 P.M. l.m.t set in-
 strument and observe
 said star until elongation
 at $7-32^{\text{hr. min.}}$ mean Solar time.

I then mark two points
 on line thus determined
 on plugs driven respective-
 ly 5 chs. N. and S. of
 my station.

Sept. 19 at 1 P.M. l.m.t. I
 lay off azimuth of Polaris
 $1^{\circ} 27'$ to the W. and
 mark true meridian
 by changing and remark-
 ing plugs driven Sept. 18.

At $1-15^{\text{hr. min.}}$ I set off $31^{\circ} 22\frac{1}{2}'$ on

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North Boundary Jr., 245, R24E.

lat arc: and $1^{\circ} - 15'$ n. on
dec'l. arc and compare
true meridian determin-
ed with solar with that
established by Polaris
observation. I find
them to be substantially
the same.

I continue to note
meridian determined
by solar until 3 P. M.
making the proper chang-
es upon declination
arc. Sept 20, at 9 a.m.
l.m.t. at above describ'd
station. I set off $31^{\circ} - 22\frac{1}{2}'$
on the lat. arc and $0^{\circ} -$
 $56'$ n. on dec'l. arc and
again compare true meridi-
an determined with that

North Boundary Tps. 24 S., R 24 E. 7.

chains already established by observation of Polaris and finding A.M. and P.M. observations (taken Sept. 19.) to agree, I conclude the adjustments of instrument are satisfactory.

The magnetic variation is $12^{\circ} 20'$ East.

I begin at the cor. of Tps. 23 & 24 S. Ranges 24 & 25 East which I find as described by the Surveyor General, with the ~~exception~~, that instead of pits there stands a monument of rocks 2 ft. base $1\frac{1}{2}$ ft high W. of cor. Thence I run W. bet. secs. 1 & 36

2.68 Wash 15 lbs. wide, course

North Boundary Twp. 24 S., R 24 East.

- che. S.E. + n. W.; thence over low point to same
- 4.56 Wash 20 lbs. wide course N.E. + S.W.
- 15.00 Divide ridge runs N. + S.
- 16.30 Grassy draw 1.5 chs. wide, N.E. + S.W.
- 22.22 Divide N. + S, descend.
- 31.70 Abrupt descent into Gold Gulch.
- 32.40 Gold Gulch 50 lbs. wide course N. + S. ascend gently over plateau.
- 40.00 Set a limestone 22 x 8 x 8 inches. 16 inches in the ground, for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N. face: dig pits 18 x 18 x 12 inches E + W of stone 3 ft dist. raise a mound of earth 3 $\frac{1}{2}$ ft base 1 $\frac{1}{2}$ ft high N. of cor.
- 43.80 Cross road Bisbee to U.S

North Boundary Tp. 24S., R24E.

chains.	custom House bears N. N.W. + S. S. E.
48.00	Descend to gulch, course ^{South} N. + S.
51.25	Trail in gulch course N. + S.
52.04	Center of gulch 80 l. wide course N. + S.
55.00	Divide N. + S descend.
59.85	Gulch 150 ^{lks} ch. wide N. W. + S. E. ascend.
68.00	Enter flat ridge course n. + S.
71.70	Trace along ridge course N. E. + S. W.
80.00	Set a limestone 20 X 10 X 5 ins, 15 ins. in ground for cor of secs. 1, 2, 35 + 36 marked with one notch on the E. and five notches on the W. edges; dig pits 18 X 18 X 12 ins, in each section 5½ ft. dist and raise a mound of earth 4 ft. base 2 ft high W of Cor. Land broken and hilly Soil 2 nd 3 rd + 4 th rate

North Boundary Tp, 24 S, R 24 E.

- chains no timber mesquite and
catsclaw brush.
-
- West bet sec's 2 + 35.
Descend.
- 4.00 Draw 2.50 chs wide course
N. & S. ascend.
- 25.00 ~~flat topped ridge~~ N & S gently ascend.
- 40.00 Set a limestone 20x10x8 ins.
15 ins in ground for $\frac{1}{4}$ sec. cor.
marked $\frac{1}{4}$ on N. face; dig
pits 18x18x12 ins, E. & W. of
stone 3 ft dist. raise mound
of earth $3\frac{1}{2}$ ft base $1\frac{1}{2}$ ft high
N. of cor. Country flat.
- 40.65 Trail course N.E. & S.W.
- 41.40 Old road course N.E. & S.W.
rolling country
- 51.40 Road Bisbee to U.S. Custom
House course N. & S.
- 80.00 Set a limestone 16x8x5 ins

North Boundary Tp., 24S., R24E. ^{11.}

BOOK 1582

chains.

11 ins in ground for cor.
secs, 2, 3, 34 & 35 marked
with two notches ^{East & four notches on} on ^Wedges,
dig pits 18 X 18 X 12 ins., in
each sec. 5½ ft dist., and
raise a mound of earth
4 ft base, 2 ft high W. of
cor. Land gently rolling
Soil 1, 2, & 3rd rate.
No timber, scattering mes-
quite brush

W. bet. secs 3 & 34.

Country gently rolling
40.00 Set a limestone 12 X 10 X 5 ins.,
8 ins. in ground for ¼ sec.
cor. marked ¼ on N. face.
dig pits 18 X 18 X 12 ins E & W.
of stone 3 ft ^{dist} dist: raise
mound. 3½ ft base 1½ ft
high N. of cor.

North Boundary Tp 24S, R 24 East

- ~~Topograph line from~~
~~Survey Station to U.S. Custom House~~
 Chain 43.04 Road Bisbee to Hynes ranch
 course N. + S.
- 43.10 Enter meadow.
- 55.98 Road Don Louis Station
 to U.S. Custom House course
 N.W. + S.E.
- 69.00 Leave meadow enter brush
 bears N. + S.
- 80.00 Set a limestone 20 x 12 x 10
 ins., 14 ins. in ground for
 cor of secs 3, 4, 33 + 34.
 marked with 3 notches on
 E. and 3 notches on Wedges:
 dig pits 18 x 18 x ^{ins} 12 in each
 section 5½ ft dist: raise
 mound of earth and stones
 4 ft base 2 ft high (pit in
 sec 33 not full depth owing
 to limestone bed rock near
 surface) W of corner.

North Boundary Tp. 24 S., R 24 E.

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Chimney of \odot on ^{Station} Louis₇ bear
N. 26° - 40° W.

Variation of magnetic
needle changes from nor-
mal ($12^{\circ} 20' E$) to $11^{\circ} - 45^{\circ} E$

No surface indications
of iron. Land gently
rolling sloping to South
Soil 1st + 2nd rate.

No timber, some brush-
mesquite and catsclaw.
Good grass. Sept 20, 1898

Sept 21/98. At ^{n min} 8 - 55^{AM} l. m. t.
I set off $31^{\circ} - 22\frac{1}{2}'$ on lat.
arc: $0^{\circ} - 33\frac{1}{2}'$ on decl. arc
and determine a true
meridian with the solar at
the cor. of secs. 3, 4, 33 + 34.
Thence I run W bet 4 + 33.

North Boundary Tp, 24 S, R 24 E,

chs.

40.00

Set a limestone 12 X 8 X 7 ins., 9 ins. in ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N. face: dig pits 18 X 18 X 12 ins., E. + W. of stone 3 ft dist.; and raise mound of earth $3\frac{1}{2}$ ft. base $1\frac{1}{2}$ ft. high N. of cor.

80.00

Set a limestone 18 X 10 X 8 ins., 12 ins. in ground for cor. of secs. 4, 5, 32 & 33 marked with 4 notches on E. and 2 notches on W edges: dig pits 18 X 18 X 12 ins. in each section $5\frac{1}{2}$ ft distant and raise a mound of earth 4 ft. base 2 ft. high W of cor.

Land gently rolling sloping to South, soil 2nd & 3rd rate.

No timber considerable

chains brush cats-claw and grease wood.

W. bet secs. 5 + 32.

40.00 Set a limestone 14 X 8 X 6 ins. 9 ins. in ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N. face; dig pits 18 X 18 X 12 ins. E + W of rock 3 ft dist. raise mound of earth $3\frac{1}{2}$ ft. base $1\frac{1}{2}$ ft high N. of corner. Enter Dense underbrush.

80.00 Set a limestone 13 X 8 X 6 ins, 8 ins. in ground for cor. of secs 5, 6, 31, 32 marked with 5 notches on E. and one notch on W, edges; dig pits 18 X 18 X 12 ins. in each section $5\frac{1}{2}$ ft dist. and raise a mound

N. Boundary Tr. 24S, R24E

C
1*of earth*4 ft. base 2 ft high W of cor.
variation of needle 12° - 20° Land gently rolling sloping
to South, Soil 2nd & 3rd
rate. No timber. Mesquit
cats-claw and grease-wood
brush. Dense underbrush 40c

8

W. bet Secs. 6 & 31.

Dense underbrush.

21.71 Road from Bisbee to
"Whiskey Pete Wells"
bears N.E. & S.W.40.00 Set a lime quartz rock
12 x 8 x 8 ins, 8 ins. in ground
for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on
W. ⁴ face: dig pits 18 x 18 x 12
ins. E. & W. of stone 3 ft
dist: raise a mound
of earth $3\frac{1}{2}$ ft. base. $1\frac{1}{2}$ ft.

high N. of cor.

8000 Set a limestone $18 \times 12 \times 6$
 ins, 12 ins. in ground
 for cor of Tps. 23 & 24
 S. R. 23 & 24 E. marked
 with 6 notches on each
 edge: dig pits $24 \times 24 \times 12$
 ins. on each line N.
 E & W. 4 ft and South
 of stone 8 ft dist. raise
 a mound of earth
 5 ft base $2\frac{1}{2}$ ft high
 S. of cor., From this
 corner.

flag pole on San Jose
 peak bears $S 14^{\circ} - 25' W$.
 Huachuca peak No. 3.
 bears $N 83^{\circ} - 40' W$.
 Land gently rolling
 sloping to South side

West Boundary Tp 24, S., R24E

chains 2nd & 3rd rate. no
timber. Some grass
Dense underbrush
80 chs.

West Boundary.

S. bet secs. 1 + 6.

Dense underbrush.

40.00 Set a quartzite rock 14X6
X 5 ins. 9 ins in ground
for $\frac{1}{4}$ sec cor. marked $\frac{1}{4}$
on on W. face: dig pits
18 X 18 X 12 ins. N. & S. of stone
3 ft dist, : raise a mound
of earth $3\frac{1}{2}$ ft base $1\frac{1}{2}$ ft.
high W. of cor.

57.60 Road from old Station
No. 30. to ^{U.S. Customs House} ~~Acossari~~ bears
N. W. & S. E.

64.10 Road, Bisbee to Whiskey

80.00

Pats Wells bears N. E & S W
 Set a limestone 12 X 10 X 6
 ins., 8 ins. in ground
 for cor. ^{to} sec 1, 6, 7 + 12
 marked with 5 notches
 on S. and one notch
 on North edges: dig pits
 18 X 18 ins and varying
 in depth from 8 to 4
 ins. at which depth
 limestone bed rock en-
 countered, said pits
 are in each section
 5½ ft. dist. from rock:
 raise a mound of
 stones & earth 4 ft base
 2 ft. high W. of cor.
 Land gently rolling
 sloping to South Soil
 2nd & 3rd rate. Some grass

West Boundary Tp. 24 S., R. 24 E.

No timber. Dense underbrush
80 chains

S bet. secs. 7 & 12.

Dense underbrush.

40.00

Set a quartzite rock
 12 X 12 X 5¹/₂ ins. 8 ins. in
 ground for $\frac{1}{4}$ sec. cor.
 marked $\frac{1}{4}$ on W. face.
 dig pits 18⁷/₄ X 18 X 12 10⁴/₅
 of rock. 3 ft dist. raise
 a mound of earth 3 $\frac{1}{2}$ ft
 base and 1 $\frac{1}{2}$ ft high W.
 of cor. 3
 6

80.00

Set a quartzite rock 2
 14 X 9 X 5¹/₂ ins. 9 ins. in ground
 for cor. of secs 7, 12, 13, & 18. 2
 marked with 2 notches
 on N & 4 on S. edges:
 dig pits 18 X 18 X 12 ins. 3
 in each section 5 $\frac{1}{2}$ ft.

dist. raise a mound of earth 4 ft base 2 ft high W. of cor.

Land gently rolling sloping to south. Soil 2nd + 3rd rate. Some grass. No timber.

Dense underbrush 80 chs.

S. bet sect. 13 + 18.

00 lean ^{dense} underbrush.
Enter valley.

0.81 Wire fence bears E & W.

2.60 Road along valley ^{from} to San Pedro River, bears N.E. & S.W. to U.S. Custom House

3.10 Water hole 75 lbs wide course E & W bottom of Valley ascend gently.

9.30 Road N. to San Pedro Valley bears S.E. & N.W.

West Boundary Tp. 24 S., R. 24 E.

- chs.
40.00 Set a quartzite rock 13 X 9 X 5 ins 9 ins. in ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on W. face: dig pits 18 X 18 X 12 ins. N. + S. of stone 3 ft. dist raise mound of earth $3\frac{1}{2}$ ft base $1\frac{1}{2}$ ft high. $\frac{1}{4}$ of cor.
- 41.00 Wire fence bears E + W.
- 48.65 Old wire fence bears E + W.
- 63.34 Kaco branch of A + S.E. R.R. course S 33° - 21' E.
- 80.00 Set a lime-quartz rock 16 X 8 X 6 ins. 11 ins in ground for cor. of secs. 13, 18, 19 + 24 marked with 3 notches on N and 3 notches on S. edges: dig pits 18 X 18 X 12 ins. in each section $5\frac{1}{2}$ ft. dist. and raise

Chains

mound of earth 4 ft
 base 2 ft high W of cor.
 From said cor. the
 N. E. cor. of Isaac
 Chrissman's house
 bears S. 13° -20' W. 147 lks
 Land gently rolling
 Soil 1st & 2nd rate.
 No timber, little brush
 good grass. Dense
 brush 3 chains.

b. bet secs 19 & 24.

.88 Isaac Chrissman's fence
 bears C + W.

2.70 Intersect International
 boundary line, which
 determine by setting
 instrument upon line of
 International monuments

West Boundary Tp. 24, S., R. 24 E.

nos 92 & 91, ^{both} of which
are visible from a point
about one half mile E.
of this intersection said
International Boundary
bears East & West.

Set a lime quartz rock
14 X 6 X 6 ins. 9 ins. in ground
for a closing corner mark-
ed cc on N. face: dig pits
24 X 18 X 12 ins. crosswise
on each line E. & W. 3 ft
and N. of stone 7 ft dist.
raise a mound of earth
4 ft. base 2 ft. high N.
of cor. Land gently
rolling Soil ~~1st~~ 2nd rate
no timber, little brush
good grass.

Sept. 21, 1898.

For corrected map. See page 2 of C.C. and
supplemental field notes

chains Sept. 22 1898.

At the closing corner
to International Boundary
Monument No. 92.

From said closing
corner the S. E. cor of
R. Franco's house bears N. 68° - $21' 20''$
128 lks.

S. W cor. W. J. McKernone
house bears N. 42° - $33' E$. 92 lks

Post S of end of Kielbys fence

East 93 lks. From said
closing corner I run East
along International Bound-
ary.

95-28 International Boundary
monument No. 92.

Sept 22, 1898.

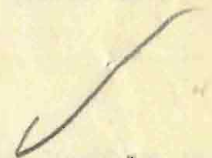
Line	True Bearing	Distance	Latitudes	
			N	S
S. bdy (76248) (10248)	West	481.11		
W. bdy do.	North	252.70	252.70	
N. bdy do.	East	480.		
E. bdy do	S 0°-4' W	40.10		40.10
	S 0°-02' E	40.25		40.25
	S 0°-18' W	40.03		40.03
	S 0°-14' E	40.35		40.35
	S 1°-30' E	40.10		40.09
	S 0°-19' E	40.38		40.38
	S 8°-3' E	11.33		11.33
Courseway				
		252.70	252.53	
		252.53		
		Error in lat. 17		

76248 248

List of Names.

Departures!	
E	W
	481.11

480.	
.37	.05
.16	.21
1.05	
.22	
.01	
23	



482.04	481.37
481.37	
.67	Error in dep.

Final Oath of Assistants.

We hereby certify that we assisted John A. Rockefeller U. S. Deputy Surveyor, in surveying all those parts or portions of the North and West boundaries of Township 24 South Range 24 East

of the Gila and Salt River Base and Meridian, in the Territory of Arizona, as are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said Survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established according to the instructions furnished by the United States Surveyor General for Arizona.

Wm. Hays Chainman.

H. H. Leland Chainman.

Chainman.

M. H. Connor Monument Chainman.

M. H. Connor Axeman.

Axeman.

Witness: Wm. Hays ^{his} Felix Burnela Flagman.

Sworn to and subscribed before me, this 1st

day of October, 1898.

John A. Rockefeller
U. S. Deputy Surveyor Notary Public.

[SEAL.]

No officer authorized to administer oaths being available without great

Final Oath of U. S. Deputy Surveyor.

I, John A. Rockefeller

U. S. Deputy Surveyor, do solemnly swear that in
pursuance of a contract received from Royal A. George
~~John A.~~ United States Surveyor-General for Ari-

zona, bearing date of the 21 day of

May 1898, I have well, faith-

fully, and truly, in my own proper person, and in

strict conformity with the instructions furnished by

the United States Surveyor-General for Arizona,

the Manual of Surveying Instructions, and the

laws of the United States, surveyed all those parts

or portions of the North and

West boundaries

of Tps. 24 South

Range 24 East

of the Gila and Salt River Base and Meridian, in

the Territory of Arizona, as are represented in the

foregoing Field Notes as having been surveyed by

me and under my direction; and I do further

solemnly swear that all the corners of said surveys

have been established and perpetuated in strict

accordance with the Manual of printed instructions,

the special instructions of the United States Sur-

veyor-General for Arizona, and in the specific

with a view to the other than my
inconvenience, delay & expense

78 30

manner described in the field notes, and that the foregoing are the true Field Notes of such survey; and should any fraud be detected I will suffer the penalty of perjury, under the provisions of an act of Congress approved August 8, 1846.

John H. Rockwell
U. S. Deputy Surveyor.

Sworn to and subscribed before me this 14th

day of *December*, 1898.



Chas S Johnston
Notary Public

Commission Expires Apr. 18, 1899.

BOOK 1582

*W
W
—*

*W
C*

U.S. Surveyor General's Office.

Tucson, Arizona, *May 23, 1899.*

The foregoing Field Notes of the survey of

*The North and West
Boundaries of T.P.
24 S. R. 24 E.*

of the Gila and Salt River Base and Merid-

ian, Arizona, executed by *John A.*

Rockfellow D. S. under his contract of the
21st day of *May*, 1898, having been

critically examined and the necessary

corrections and explanations made, the said

Field Notes and the surveys they describe,

are hereby approved.

George Christ

U.S. Surveyor General.